

A11100 987919

NAT'L INST OF STANDARDS & TECH R.I.C.



A11100987919

/Catalog of National Bureau of Standards  
QC100 .U57 NO.535 1978 V.2:PT. C.1 NBS-P















SPECIAL PUBLICATION 535  
Volume 2 (M through Z)

National Bureau of Standards  
Library, E-01 Admin. Bldg.

OCT 1 1981

191074

QC

100

.457

# Catalog of National Bureau of Standards Publications 1966-1976

Key Word Index



U.S. Department of Commerce

## NATIONAL BUREAU OF STANDARDS

The National Bureau of Standards<sup>1</sup> was established by an act of Congress March 3, 1901. The Bureau's overall goal is to strengthen and advance the Nation's science and technology and facilitate their effective application for public benefit. To this end, the Bureau conducts research and provides: (1) a basis for the Nation's physical measurement system; (2) scientific and technological services for industry and government; (3) a technical basis for equity in trade; and (4) technical services to promote public safety. The Bureau's technical work is performed by the National Measurement Laboratory, the National Engineering Laboratory, and the Institute for Computer Sciences and Technology.

**THE NATIONAL MEASUREMENT LABORATORY** provides the national system of physical and chemical and materials measurement; coordinates the system with measurement systems of other nations and furnishes essential services leading to accurate and uniform physical and chemical measurement throughout the Nation's scientific community, industry, and commerce; conducts materials research leading to improved methods of measurement, standards, and data on the properties of materials needed by industry, commerce, educational institutions, and Government; provides advisory and research services to other Government Agencies; develops, produces, and distributes Standard Reference Materials; and provides calibration services. The Laboratory consists of the following centers:

Absolute Physical Quantities<sup>2</sup> — Radiation Research — Thermodynamics and Molecular Science — Analytical Chemistry — Materials Science.

**THE NATIONAL ENGINEERING LABORATORY** provides technology and technical services to users in the public and private sectors to address national needs and to solve national problems in the public interest; conducts research in engineering and applied science in support of objectives in these efforts; builds and maintains competence in the necessary disciplines required to carry out this research and technical service; develops engineering data and measurement capabilities; provides engineering measurement traceability services; develops test methods and proposes engineering standards and code changes; develops and proposes new engineering practices; and develops and improves mechanisms to transfer results of its research to the ultimate user. The Laboratory consists of the following centers:

Applied Mathematics — Electronics and Electrical Engineering<sup>3</sup> — Mechanical Engineering and Process Technology<sup>3</sup> — Building Technology — Fire Research — Consumer Product Technology — Field Methods.

**THE INSTITUTE FOR COMPUTER SCIENCES AND TECHNOLOGY** conducts research and provides scientific and technical services to aid Federal Agencies in the selection, acquisition, application, and use of computer technology to improve effectiveness and economy in Government operations in accordance with Public Law 89-306 (40 U.S.C. 759), relevant Executive Orders, and other directives; carries out this mission by managing the Federal Information Processing Standards Program, developing Federal ADP standards guidelines, and managing Federal participation in ADP voluntary standardization activities; provides scientific and technological advisory services and assistance to Federal Agencies; and provides the technical foundation for computer-related policies of the Federal Government. The Institute consists of the following divisions:

Systems and Software — Computer Systems Engineering — Information Technology.

<sup>1</sup>Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D.C. 20234.

<sup>2</sup>Some divisions within the center are located at Boulder, Colorado, 80303.



JUN 19 1979

not Acc. Circ

QC100

US7

no. 535

1978

C.2

Volume 2: Key Word Index (M through Z)

# Catalog of National Bureau of Standards Publications, 1966-1976

An 11-year key word index to NBS publications with references to citations and abstracts in SP535, Volume 1, Parts 1 and 2 and/or NBS SP305, and its Supplements 1-8

Betty L. Burris and Rebecca J. Morehouse, Editors

Technical Information and Publications Division  
National Bureau of Standards  
Washington, DC 20234



U.S. DEPARTMENT OF COMMERCE  
Juanita M. Kreps, Secretary

Dr. Sidney Harman, Under Secretary  
Jordan J. Baruch, Assistant Secretary  
for Science and Technology

U.S. NATIONAL BUREAU OF STANDARDS  
Ernest Ambler, Director

Special pub. 535

**Library of Congress Catalog Number: 78-600145**

National Bureau of Standards Special Publication  
535, Volume 2 (M through Z)

An 11-year key word index to NBS publications  
issued 1966 through 1976 with references to citations  
and abstracts in SP535, Volume 1, Parts 1 and 2

Nat. Bur. Stand. (U.S.) Spec. Publ. 535, Vol. 2,  
784 pages (1978)

CODEN: XNBSAV

Issued 1978

**U.S. Government Printing Office  
Washington: 1978**

---

For sale by the Superintendent of Documents, U.S. Government  
Printing Office, Washington, DC 20402. (Order by SD Stock No.  
003-003-02011-7). Price \$21.25 per 2 part set; sold in sets only. (Add 25  
percent additional for other than U.S. mailing.)

## PREFACE

Throughout the history of the National Bureau of Standards, publications have served as the single most effective means for conveying results of Bureau research to the Bureau's diverse audiences. Much of this research has lasting value, and publications reporting Bureau work of many years ago are still consulted by current researchers. Because of these facts, NBS is issuing this catalog of Bureau publications from 1966 through 1976. Each of the two volumes may be used separately, or they may be used to complement each other. Volume 1 consists of abstracts and a full bibliographic citation for each paper. It is an accumulation of the complete citations originally appearing in the NBS annual publications catalogs: NBS SP305 and its Supplements 1 through 8. It also contains availability information not only for currently in-print papers but also for NBS publications series which are no longer in print. Volume 2 consists of a permuted key word index for all papers. See the "Guide to Users of This Publication" for more details on how to most effectively use each volume.

The NBS publications series (presently consisting of 11 non-periodicals and 3 periodicals) provides a matrix which makes it possible to issue each NBS paper in a medium best calculated to reach its most interested specific audience. Throughout the years, this matrix has evolved to reflect changing emphases in Bureau work. Some former publications series have been eliminated; some have been modified; new ones have been created. The "Miscellaneous Publications" series, for example, was superseded by "Special Publications" in 1970. The NBS Journal of Research evolved into three publications, each reporting work in a different discipline, and now has further evolved to the present single volume which reports work in all NBS technical areas. NBS publications series, past and present, are listed and described. (Currently active NBS publications series are described more briefly on the inside back cover of this catalog's two volumes.)

One final note, as the years pass we have constantly attempted to expand the usefulness and comprehensiveness of our *annual* publications catalog. To this end, we have utilized new computer technology as it became available—for composition as well as for cataloging purposes. In earlier years we were only able to include the overall abstract for a conference or symposium Proceedings. For the past several years we have been able to include, in addition, abstracts for the individual papers presented. Also, for the past several years we have been able to include information on Patents, Grant/Contract Reports, and other items which we had not been able to cover previously—all this toward the end of increasing the catalog's usefulness in communicating NBS work to the public.

We hope this summary of former NBS effort will facilitate the work of those who use it. This two-volume catalog of NBS publications covering calendar years 1966 through 1976 will be updated by the annual catalog supplements. The 1977 supplement is currently available as NBS SP305, Supplement 9. (See Section 2.2.)

W. R. Tilley, Chief  
Technical Information and  
Publications Division



# CONTENTS

## FOR VOL. 1, PART 1 AND PART 2, VOL. 2

Preface .....	I
A Guide to Users of This Publication .....	I
1. NBS Publication Program .....	I
1.1. Introduction .....	I
1.2. Periodicals .....	I
1.2.1. Journal of Research .....	I
1.2.2. DIMENSIONS/NBS .....	I
1.2.3. Journal of Physical and Chemical Reference Data (JPCRD) .....	I
1.3. Nonperiodicals .....	I
1.4. NBS Interagency Reports .....	I
1.5. Grantee/Contractor Reports and Patents .....	I
1.6. NBS Bibliographic Subscription Services .....	I
1.7. Papers Published by Others .....	I
2. Purchase Procedures and Document Availability .....	I
2.1. Purchase Procedures .....	I
2.2. Announcement of NBS Publications .....	X
2.3. Catalogs of NBS Publications .....	XI
2.4. Functions of Depository Libraries in the United States .....	XI
2.5. Functions of U.S. Department of Commerce District Offices .....	XI
2.6. Availability of NBS Publications .....	XI
A. Periodical Subscription Rates .....	XI
B. Superseded NBS Reference Publications .....	XI
C. Status of Publications Cited in This Document .....	XV

## FOR VOL. 1, PART 1 ONLY

3. Titles and Abstracts of NBS Publications, 1966 Through 1976 .....	I
3.1. Journal of Research, Section A (July 1966 Through December 1976) .....	1
3.2. Journal of Research, Section B (July 1966 Through December 1976) .....	1
3.3. Journal of Research, Section C (July 1966 Through June 1972) .....	1
3.4. Journal of Physical and Chemical Reference Data .....	1
3.5. DIMENSIONS/NBS, article titles only .....	1
3.6. Monographs .....	1
3.7. Handbooks .....	1
3.8. Miscellaneous Publications .....	1
3.9. Special Publications .....	1
3.10. Applied Mathematics Series .....	4
3.11. National Standard Reference Data Series .....	4
3.12. Building Science Series .....	5
3.13. Federal Information Processing Standards Publications .....	5
3.14. Commercial Standards .....	5
3.15. Simplified Practice Recommendations .....	5
3.16. Voluntary Product Standards .....	5
3.17. Technical Notes .....	5
3.18. Consumer Information Series .....	6
3.19. NBS Interagency Reports .....	6
3.20. Grantee/Contractor Reports and Patents .....	7

## FOR VOL. 1, PART 2 ONLY

4. Titles and Abstracts of Papers Published in Non-NBS Media, 1966 through 1976 .....	7
---	---

## FOR VOL. 2 ONLY

5. Key Word Index .....	7
A Through L .....	
M Through Z .....	

# A GUIDE TO USERS OF THIS PUBLICATION

This 11-year record of NBS publications is available in two volumes, each of which may be used independently.

Volume 1, issued in two parts because of its length, consists of abstracts for publications issued by NBS from 1966 through 1976. It also contains general availability information for current and out-of-print NBS publications and a general overview of the NBS publications program. Frequently, the full abstract will satisfy the user's need for information and preclude the need for further research or for acquiring the full paper. Volume 1 reports papers by NBS publications series, as shown in its Table of Contents. If the user does know the NBS publications series involved but does not know the year of publication, this format will be especially useful.

Volume 2, also issued in two parts, consists of a permuted key word index. The key words for each publication or paper are arranged by lifting each group of key words so that each key word, in turn, appears alphabetically followed by the other key words in that group. Volume 2, which also contains the availability

and overview information for current and out-of-print NBS publications, may be used in three ways:

(a) as a reference to the abstract given in Volume 1 of this catalog (for papers reported in the annual catalogs, SP305 and Supplements 1 through 8);

(b) as a reference to the abstract in the appropriate annual NBS publications catalog (if available to the reader; see list in Section 2.3);

(c) as a reference to the paper itself, available in a regional depository library, from the National Technical Information Service, or from the original publisher or publication medium, if the paper is still in print. (See availability information in Section 2.)

If the reader does not know the NBS publications series or title of the paper, or is interested in a specific subject matter area, the key word format of Volume 2 will prove useful.

Tables of the abbreviations used to identify various NBS publications series are given below. The tables include the Volume 1 page numbers on which the series listings begin.

## SYMBOLS FOR NBS PUBLICATIONS

### A. Symbols for the Periodicals

NBS Journal of Research	Index Symbol			Issue Date	Volume 1 Page
	Vol.	Sec.	No.		
Section A	J. Res. 70 through 80	A	1 through 6	July 1966 through December 1976	1
Section B	J. Res. 70 through 80	B	1 through 4	July 1966 through December 1976	88
Section C	J. Res. 70 through 76	C	1 through 4	July 1966 through June 1972	124

Journal of Physical and Chemical Reference Data	Index Symbol		Issue Date	Page
	Vol.	No.		
	JPCRD 1 through 5	1 through 4	January 1972 through December 1976	145

DIMENSIONS/NBS	Index Symbol		Issue Date	Page
	Vol.	No.		
	DIM/NBS 57 through 60	1 through 12	January 1973 through December 1976	162

## B. Symbols for the Nonperiodicals

NBS Nonperiodical Series	Index Symbol	Page
Monographs	Monogr.	174
Handbooks	H	188
Miscellaneous Publications	MP	192
Special Publications	SP	195
Applied Mathematics Series	AMS	497
National Standard Reference Data Series	NSRDS	498
Building Science Series	BSS	507
Federal Information Processing Standards	FIPS PUBS	531
Commercial Standards	CS	537
Simplified Practice Recommendations	SPR	537
Voluntary Product Standards	PS	537
Technical Notes	TN	545
Consumer Information Series	CIS	645
NBS Interagency Reports	NBSIR	646
Grantee/Contractor Reports and Patents	GCR and/or U.S. Patent	735

## C. Symbols for the Papers Published in Non-NBS Media (1966-1976)

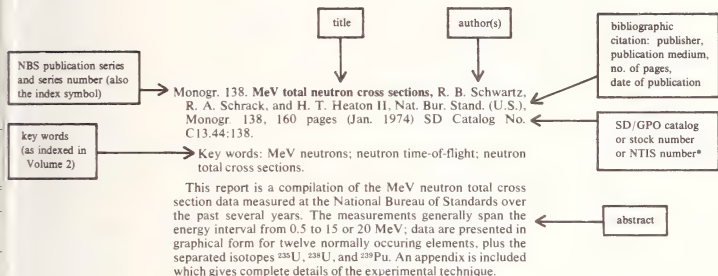
NBS Papers Published in Non-NBS Media	Index Symbol	Volume 1, Page
Professional Journals, Books, Book Chapters, Proceedings, etc.	Arabic numbers: 9150 through 16658	754

SAMPLE  
ENTRIES  
FROM  
VOLUMES  
1 AND 2  
FOLLOW



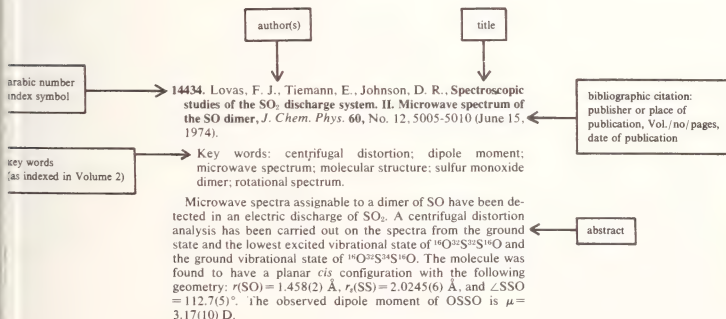
# CATALOG ENTRIES: HOW TO READ THEM

## A. Sample Entries from Volume 1



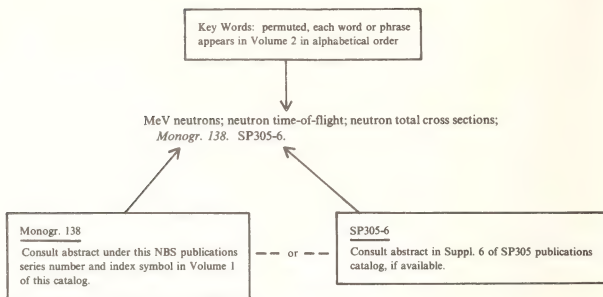
\*Verify this number in Status List (pages XVIII to XLIII)

Example of NBS published paper. (See Section 2 for status and availability.)



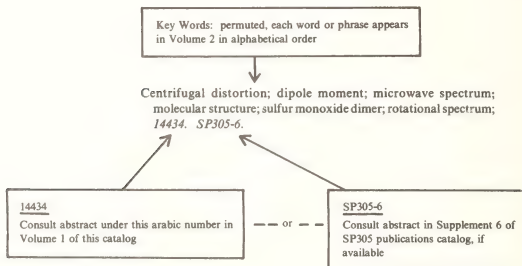
Example of NBS paper published in non-NBS medium

## B. Sample Entries from Volume 2.



Example of NBS published paper. (See Section 2 for status and availability.)

---



Example of NBS paper published in non-NBS medium

# 1. NBS PUBLICATION PROGRAM

## 1.1. INTRODUCTION

The formal publications of the National Bureau of Standards provide the primary means of communicating the results of NBS programs to its varied technical audiences as well as to the general public. Publications thus constitute a major end product of the Bureau's efforts. These take the form of the Bureau's periodicals, its nonperiodical series, interagency reports, and articles in the journals of professional organizations and technological associations.

The various media in which the results of NBS programs appear are as follows:

## 1.2. PERIODICALS

### 1.2.1. JOURNAL OF RESEARCH

Since July 1977, the Journal of Research has been published on a single-volume, bi-monthly basis. See the inside back cover for a description of the present Journal which reports NBS research and development in those disciplines within the physical and engineering sciences in which the Bureau is active.

Annual subscription: domestic \$17.00; foreign, \$21.25. Single copy, \$3.00 domestic; \$3.75 foreign.

The Journal was formerly published in three sections: Section A "Physics and Chemistry," Section B "Mathematical Sciences," and Section C "Engineering and Instrumentation." Papers published in these former versions of the Journal are reported in this catalog. Each section's coverage is briefly described below:

**A. Physics and Chemistry (July 1966 through December 1976)**

Contained papers of interest primarily to scientists working in these fields.

**B. Mathematical Sciences (July 1966 through December 1976)**

Presented studies and compilations designed mainly for the mathematician and the theoretical physicist.

**C. Engineering and Instrumentation (July 1966 through June 1972)**

Reported research and development results of interest chiefly to the engineer and to the applied scientist.

### 1.2.2. DIMENSIONS/NBS

This magazine is published to inform both the technical expert and the interested layman of the latest advances in science and technology, with primary emphasis on the work at NBS. The magazine highlights and reviews such issues as energy research, fire protection, building technology, metric conversion, pollution abatement, health and safety, and consumer product performance. In addition, it reports the results of Bureau programs in measurement standards and techniques, properties of matter and materials, engineering standards and services, instrumentation, and automatic data processing. Formerly issued monthly. The tables of contents for each issue of DIMENSIONS/NBS (formerly Technical News Bulletin) for the years 1973 through 1976 are listed in Section 3.5.

### 1.2.3. JOURNAL OF PHYSICAL AND CHEMICAL REFERENCE DATA (JPCRD)

This Journal is published quarterly by the American Chemical Society and the American Institute of Physics for the National Bureau of Standards. The objective of the Journal is to provide critically evaluated physical and chemical property data, fully documented as to the original sources and the criteria used for evaluation. Critical reviews of measurement techniques, whose aim is to assess the accuracy of available data in a given technical area, are also included. The principal source for the Journal is the National Standard Reference Data System (NSRDS). The Journal is not intended as a publication outlet for original experimental measurements such as are normally reported in the primary research literature, nor for review articles of a descriptive or primarily theoretical nature. (See also Section 1.3. National Standard Reference Data Series.)

## 1.3. NONPERIODICALS

Several categories of nonperiodical publica-

tions, described as follows, are listed in this catalog:

**MONOGRAPHS**—major contributions to the technical literature on various subjects related to the Bureau's scientific and technical activities.

**HANDBOOKS**—recommended codes of engineering and industrial practice (including safety codes) developed in cooperation with interested industries, professional organizations, and regulatory bodies.

**MISCELLANEOUS PUBLICATIONS.** The name of this series was changed to Special Publications in 1970.

**SPECIAL PUBLICATIONS**—include proceedings of conferences sponsored by NBS, NBS annual reports, and other special publications appropriate to this grouping such as wall charts, pocket cards, and bibliographies.

Special subject-matter subseries include Semiconductor Measurement Technology (SP400- ), Standard Reference Materials (SP260- ), and Precision Measurement and Calibration (SP300- ).

**APPLIED MATHEMATICS SERIES**—mathematical tables, manuals, and studies of special interest to physicists, engineers, chemists, biologists, mathematicians, computer programmers, and others engaged in scientific and technical work.

**NATIONAL STANDARD REFERENCE DATA SERIES**—provides quantitative data on the physical and chemical properties of materials, compiled from the world's literature and critically evaluated. Developed under a worldwide program coordinated by NBS, under authority of National Standard Data Act (Public Law 90-396). This series supplements the JPCRD, see also Section 3.4.

**BUILDING SCIENCE SERIES**—disseminates technical information developed at the Bureau on building materials, components, systems, and whole structures. The series presents research results, test methods, and performance criteria related to the structural and environmental functions and the durability and safety characteristics of building elements and systems.

**TECHNICAL NOTES**—studies or reports

which are complete in themselves but restrictive in their treatment of a subject. Analogous to monographs but not so comprehensive in scope or definitive in treatment of the subject area. Often serve as a vehicle for final report of work performed at NBS under the sponsorship of other government agencies.

Special subject-matter subseries include Optical Radiation Measurements (TN594- ) and See Calibrations Manual for Optical Radiation (TN910- ).

**COMMERCIAL STANDARDS AND SIMPLIFIED PRACTICE RECOMMENDATIONS.** See Voluntary Product Standards below.

**VOLUNTARY PRODUCT STANDARDS**—developed under procedures published by the Department of Commerce in Part 10, Title 1 of the Code of Federal Regulations. The purpose of the standards is to establish national recognized requirements for products, and to provide all concerned interests with a basis for common understanding of the characteristics of the products. The National Bureau of Standards administers the Voluntary Product Standards program as a supplement to the activities of the private sector standardizing organizations.

**FEDERAL INFORMATION PROCESSING STANDARDS PUBLICATIONS (FIP PUBS)**—publications in this series collectively constitute the Federal Information Processing Standards Register. Register serves as the official source of information in the Federal Government regarding standards issued by NBS pursuant to the Federal Property and Administrative Services Act of 1949 as amended by Public Law 89-306 (79 Stat. 1127), and as implemented by Executive Order 11717 (38 FR 12315, dated May 11, 1973) and Part 6 of Title 15 CFR (Code of Federal Regulations).

Public distribution of FIP PUBS is by purchase from the National Technical Information Service, Springfield, VA 22161.

**CONSUMER INFORMATION SERIES**—practical information, based on NBS research and experience, covering areas of interest to the consumer. Easily understandable language and illustrations provide useful background know-

ge for shopping in today's technological marketplace.

#### 1.4. NBS INTERAGENCY REPORTS

A special series of interim or final reports on work performed by NBS for outside sponsors (both government and non-government). In general, initial distribution is handled by the sponsor; public distribution is by the National Technical Information Service (Springfield, VA 22161) in paper copy or microfiche form. See pages XVIII to XLIII.)

#### 1.5. GRANTEE/CONTRACTOR REPORTS AND PATENTS

Grantee/contractor reports are prepared by non-NBS persons or organizations working under grant or contract from the National Bureau of Standards. Those contract reports not incorporated into the formal NBS publication series are available directly from the National Technical Information Service (NTIS), Springfield, VA 22161, in paper copy or microfiche form unless otherwise stated. When ordering a report from NTIS you must order it by the "COM, PB, AD, or N" number as indicated.

Patents are obtained on NBS inventions of high commercial potential, in order to establish government ownership of the patent rights. Some patents are then made available for the grant of nonexclusive licenses to all qualified applicants. A limited exclusive license may be granted under a particular patent, however, if it appears that some period of exclusivity is necessary as an incentive for the investment of risk capital. For information on licensing any of the NBS held patents, write to the Office of the Legal Adviser, National Bureau of Standards, Washington, DC 20234. Copies of patents may be obtained from the U.S. Patent and

Trademark Office, Washington, DC 20231 for 50 cents each.

#### 1.6. NBS BIBLIOGRAPHIC SUBSCRIPTION SERVICES

The Cryogenic Data Center of the National Bureau of Standards, Boulder, CO has developed specialized bibliographic issuances designed to provide interested audiences with information on latest developments in certain specialized fields. These issuances, together with subscription information, are listed below:

**CRYOGENIC DATA CENTER CURRENT AWARENESS SERVICE** (Publications and Reports of Interest in Cryogenics). A literature survey issued weekly. Annual subscription: Domestic, \$25.00; Foreign, \$30.00.

**LIQUEFIED NATURAL GAS.** A literature survey issued quarterly. Annual subscription: \$20.00.

**SUPERCONDUCTING DEVICES AND MATERIALS.** A literature survey issued quarterly. Annual subscription: \$30.00.

Send subscription orders and remittances for the preceding bibliographic services to the National Bureau of Standards, Cryogenic Data Center (736.00), Boulder, CO 80303.

#### 1.7. PAPERS PUBLISHED BY OTHERS

Many significant contributions by NBS authors are published in other journals. Up-to-date listings of these articles are carried regularly in the Journal of Research and the annual publications catalog (NBS SP305), along with abstracts, key words, and author/subject indexes. Except for the author index, the complete citations for years 1966-1976 have been reprinted in this two-volume catalog.

## 2. PURCHASE PROCEDURES AND DOCUMENT AVAILABILITY

### 2.1. PURCHASE PROCEDURES

Many recent publications of the Bureau are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, at the prices listed in this publication. However prices are subject to change without notice. You may also order

through the U.S. Department of Commerce Field Office nearest you. Microfiche copies of all recent NBS publications, and paper copies of many non-periodicals, may be ordered through the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Note that three of the non-periodical



series are available only from NTIS; these are FIPS PUBS., NBS Interagency Reports (NBSIR's), and Grantee/Contractor Reports (GCR's). This section includes current price lists of available publications, plus instructions on how to acquire reprints of articles by NBS authors, and how to get out-of-print material.

**How To Make Remittances.** Remittances for publications for which individual sales or subscription prices are shown should be mailed to Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, by postal money order, express money order, or check. Postage stamps will not be accepted. Publications cannot be mailed before remittances are received. *Foreign remittances should be made either by international money order, draft on an American bank or UNESCO coupons.*

The letter symbol, publication number, full title of the publication, SD catalog or SD stock number MUST be given when ordering. The Superintendent of Documents allows a discount of 25 percent on orders of 100 or more copies of one publication.

Persons who make frequent purchases from the Superintendent of Documents may find a deposit account convenient. Deposits of \$50 or more are accepted against which orders may be placed without making individual remittances or first obtaining quotations. Order blanks are furnished for this purpose. After the order has been processed, the order itself is returned, showing the publications supplied, explanations regarding those not sent, the amount of charge, and the balance on deposit.

No charge is made for postage on documents sent to points in the United States and its possessions. In computing foreign postage, the charge is approximately one-fourth of the current selling price of the publication. The charge is to cover the special handling required to comply with the customs and international mailing regulations.

**How To Make Remittances to NTIS.** Orders for publications purchased from the National Technical Information Service (NTIS) must be accompanied by postal money order, express money order, or check made out to the NTIS

and covering total cost of the publication order. All inquiries or orders should be addressed to: National Technical Information Service, Springfield, VA 22161.

## 2.2. ANNOUNCEMENT OF NBS PUBLICATIONS

The National Bureau of Standards and the agencies mentioned below regularly issue the following official announcements dealing with NBS publications.

**DIMENSIONS/NBS.** Issued monthly by the National Bureau of Standards. In addition to publishing technical news of the Bureau, the periodical announces selected new publications in an NBS series. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Annual subscription, \$11.00; \$13.75 foreign. Single copies \$1.10 domestic; \$1.40 foreign each.

**NBS JOURNAL OF RESEARCH.** The Journal carries a listing of all NBS publications issued. See Section 2.6 for subscription information.

**Monthly Catalog of United States Government Publications.** Issued monthly by the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Annual subscription, with consolidated annual index, \$45.00 domestic; \$56.00 foreign.

**Selected List of U.S. Government Publications.** Issued monthly by the Superintendent of Documents. Each list is arranged by subject with annotations, prices, and order form. May be obtained free from the U.S. Government Printing Office, Superintendent of Documents, Mail List Section, Stop SSOM, Washington, DC 20402.

**Business Service Check List.** Bi-weekly announcement of publications of the Department of Commerce. Lists titles and prices of National Bureau of Standards publications, as well as those of other offices of the Department of Commerce. Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. Annual subscription \$9.00; \$11.25 foreign.

**NBS Publications Newsletter.** This newsletter is issued approximately six times a year.

presents full citations, including abstracts and availability information, for NBS papers announced during the report period. Its primary audience includes librarians, documentalists and science information specialists. However, other NBS audiences also find it useful as guide to new NBS publications.

Contact: Editor, NBS Publications Newsletter, Technical Information and Publications Division, National Bureau of Standards, Washington, DC 20234.

### 2.3. CATALOGS OF NBS PUBLICATIONS

The following constitute a complete list of the titles of the Bureau's publications through December 31, 1977. The catalogs are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, unless otherwise stated, or may be consulted in a library which maintains sets of National Bureau of Standards publications. Note that all citations in NBS SP305 and its Supplements 1 through 8 are accumulated into its two-volume catalog.

Regular 460: Publications of the National Bureau of Standards 1901 to June 30, 1947. 375 pages including subject and author indexes. Brief abstracts are included for the period January 1, 1941 to June 30, 1947 .....	*
Supplement to Circular 460: Publications of the National Bureau of Standards, July 1, 1947 to June 30, 1957. 373 pages, including subject and author indexes .....	*
Miscellaneous Publication 240: Publications of the National Bureau of Standards, July 1, 1957 to June 30, 1960. First NBS Catalog to include Titles of Papers Published in Outside Journals 1950 to 1959. 391 pages, including subject and author indexes .....	*
Supplement to Miscellaneous Publication 240: Publications of the National Bureau of Standards published by NBS, July 1960 through June 1966; published by others, 1960 through 1965. 740 pages, including subject and author indexes .....	*
Special Publication 305: Publications of the National Bureau of Standards, published by NBS, July 1966 through December 1967; published by others, 1966-1967. 223 pages, a citation of titles and abstracts, with key words and author indexes .....	*
Supplement 1 to Special Publication 305: Publications of the National Bureau of Standards, 1968 through 1969. 497 pages, a citation of titles and abstracts, with key words and author indexes .....	*
Supplement 2 to Special Publication 305: Publications of the National Bureau of Standards,	

1970. 378 pages, a citation of titles and abstracts, with key words and author indexes .....	*
Supplement 3 to Special Publication 305: Publications of the National Bureau of Standards, 1971. 342 pages, a citation of titles and abstracts, with key words and author indexes .....	*
Supplement 4 to Special Publication 305: Publications of the National Bureau of Standards, 1972. 449 pages, a citation of titles and abstracts, with key words and author indexes .....	\$4.20
Supplement 5 to Special Publication 305: Publications of the National Bureau of Standards, 1973. 349 pages, a citation of titles and abstracts, with key words and author indexes .....	\$4.15
Supplement 6 to Special Publication 305: Publications of the National Bureau of Standards, 1974. 523 pages, a citation of titles and abstracts, with key words and author indexes .....	\$6.80
Supplement 7 to Special Publication 305: Publications of the National Bureau of Standards, 1975. 595 pages, a citation of titles and abstracts, with key words and author indexes .....	\$7.55
Supplement 8 to Special Publication 305: Publications of the National Bureau of Standards, 1976. 728 pages, a citation of titles and abstracts, with key words and author indexes .....	\$8.25
Supplement 9 to Special Publication 305: Publications of the National Bureau of Standards, 1977. 601 pages, a citation of titles and abstracts, with key words and author indexes .....	\$9.00

\* Available by purchase from the National Technical Information Service, Springfield, VA 22161.

### 2.4. FUNCTIONS OF DEPOSITORY LIBRARIES IN THE UNITED STATES

The Superintendent of Documents, United States Government Printing Office, is authorized by law to furnish Government publications to designated depository libraries.

Under provisions of Title 44 of the United States Code, certain libraries are designated depositories for Government publications. Through them, Federal Government documents are made available to residents of every State, District of Columbia, Guam, Puerto Rico, and the Virgin Islands. Distribution to the libraries is made by the Office of the Superintendent of Documents.

It is sometimes impossible to obtain desired publications by purchase from the Superintendent of Documents. Stocks may have been exhausted or the document may be permanently out of print. In these instances the depositories render an invaluable service by keeping such publications permanently available. Every Government publication cannot be consulted at all depository libraries. Designated Regional Depositories are required to receive

and retain one copy of all Government publications made available to depository libraries either in printed or microfacsimile form. All other libraries are allowed to select the classes of publications best suited to the interest of their particular clientele.

These libraries are now receiving selected publication series of the National Bureau of Standards for general reference use. Whether a given library has a copy of a particular publication can be determined by inquiring at the library.

## 2.5. FUNCTIONS OF U.S. DEPARTMENT OF COMMERCE DISTRICT OFFICES

Department of Commerce District Offices provide ready access, at the local level, to the services of the Department of Commerce as well as to its reports, publications, statistical statements, and surveys. Each District Office serves as an official sales agent of the Superintendent of Documents, U.S. Government Printing Office, making available for purchase locally a wide range of Government publications. The reference library maintained by each District Office contains many Government and private publications, periodicals, directories, reports, and other reference materials.

## 2.6. AVAILABILITY OF NBS PUBLICATIONS

### A. PERIODICAL SUBSCRIPTION RATES

Periodical	Domestic <sup>1</sup>	Foreign <sup>2</sup>
Journal of Research of the National Bureau of Standards: Effective July 1977 issued bi-monthly as single section. Separate Sections A and B discontinued with the June 1977 issues. Paper covers....	\$17.00	\$21.25
Bound volume (1 volume per year), blue buckram .....	(3)	(3)
DIMENSIONS/NBS, issued 10 times per year .....	\$11.00	\$13.75

NOTE—Send order, with remittance, to Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

<sup>1</sup> United States and its possessions.

<sup>2</sup> Foreign price includes the cost of the publication and postage.

<sup>3</sup> Prices of the bound volumes vary. The Superintendent of Documents will furnish prices on request.

### B. SUPERSEDED NBS REFERENCE PUBLICATIONS

Those NBS publications not listed in the Price Lists are out of print and are not available

from the Superintendent of Documents. Many can be consulted at libraries. Also, in many cases, photoduplicated copies can be purchased from the Library of Congress. For full information concerning this service, write to the Photoduplication Service, Library of Congress, Washington, DC 20540.

Certain NBS publications are out of print because they have been replaced, or partially replaced, by material issued by other organizations. In this connection NBS is able to offer the following information:

*Circular 410, National Standard Petroleum Oil Tables.* Information in this Circular has been incorporated in the ASTM-IP Petroleum Measurement Tables issued as D1250 by the American Society for Testing and Materials, 1910 Race Street, Philadelphia, PA 19103. Available at \$12.75, 20% off to ASTM members. Tables 5 and 7 of the ASTM-IP Tables may also be purchased from the ASTM in separate reprint form at \$2.25 and \$2.00 per copy respectively. *Circular 438, Static Electricity.* The National Fire Protection Association, 60 Batterymarch Street, Boston, MA 02110, has issued a publication by the same title, available from them as NFPA Publication 77, at \$3.00.

*Circular 499, Nuclear Data.* Replaced by Atomic and Nuclear Data Tables, published by Academic Press, 111 Fifth Avenue, New York NY 10003. Available by subscription for \$108.00 per year.

*Circular 564, Tables of Thermal Properties of Gases.* A reprinted edition is available from University Microfilms, Inc., Ann Arbor, MI 48106. Order as OP 12,192 for \$56.80. Microfiche of this Circular is available from Cryogenic Data Center, National Bureau of Standards, Boulder, CO 80302.

*Circular 576, Automotive Antifreezes.* For information on this subject consult American National Standards Institute, 1430 Broadway, New York, NY 10018.

*Circular 577 and Supplement, Energy Loss and Range of Electrons and Positrons.* These have been superseded by NASA Special Publication

012, available from the National Technical Information Service, Springfield, VA 22161, at \$6.75 hardcopy and \$3.00 microfiche number 165-12506.

*Miscellaneous Publication 179, American Standard Building Code Requirements for Minimum Design Loads in Buildings and Other Structures.* The American National Standards Institute, 1430 Broadway, New York, NY 10018, has issued a publication on this subject. Available from them as A58.1-1969-1972, at \$7.50.

*Miscellaneous Publication 187, Directory of Commercial and College Laboratories.* A new Directory of Testing Laboratories issued as B3D is published by the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103, at \$3.75.

*Miscellaneous Publication 211, American Standards Building Code Requirements for Masonry.* The American National Standards Institute, 1430 Broadway, New York, NY 10018, has issued a publication on this subject. Available from them as A41.1-1953-R1970, at \$4.50.

*NBS Handbook 28, Part 1, 2, and 3, Screw Thread Standards.* Responsibility for screw thread standards for Federal Government has been transferred to General Services Administration (GSA). Standards will be promulgated as Federal Standard 28 by GSA. Technical Questions should be addressed to Mr. John McGlone, Directorate of Engineering and Standardization, Defense Logistics Agency (DISC), 700 Robbins Ave., Philadelphia, PA 19111, telephone (215) 697-4349. Questions regarding administration of the program should be addressed to Mr. Grant Beattie, Standards Control and Support Division, General Services Administration (Federal Supply Service), attn: FMHS, Washington, DC 20406, telephone (703) 557-0506.

*Handbook 30, National Electrical Safety Code (also H81 and its Supplements and H110-1).* All NBS publications on this subject have been superseded by National Electrical Safety Code, 1977 Edition, issued by the American National Standards Institute, 1430 Broadway, New

York, NY 10018. Available from them as ANSI C2, at \$6.50.

*Handbook 46, Code for Protection Against Lightning.* A United States of America Standards Institute Code for Protection Against Lightning (NFPA-78-1969) is available from the American National Standards Institute, 1430 Broadway, New York, NY 10018, at \$4.25, as C5.1-1969-1975.

*Handbook 48, Control and Removal of Radioactive Contamination in Laboratories.* Reprints of this Handbook can be purchased as NCRP Report at \$3.00 from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 49, Recommendations for Waste Disposal of Phosphorus-32 and Iodine-131 for Medical Users.* Reprints of this Handbook can be purchased as NCRP Report 9 at \$3.00 from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 53, Recommendations for the Disposal of Carbon-14 Wastes.* Reprints of this Handbook can be purchased as NCRP Report 12 at \$3.00 from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 55, Protection Against Betatron-Synchrotron Radiations up to 100 Million Electron Volts.* February 26, 1954 has been combined with NBS Handbook 97. Available as NCRP Report 51, Radiation Protection Design Guidelines for 0.1-100 MeV Particle Accelerator Facilities from NCRP Publications, Post Office Box 30175, Washington, DC 20014 at \$6.00.

*Handbook 58, Radioactive Waste Disposal in the Ocean.* Reprints of this Handbook can be purchased as NCRP Report 16 at \$3.00 from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 59, Permissible Dose from External Sources of Ionizing Radiations.* Reprints of this Handbook can be purchased as NCRP Report 39 at \$5.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 63, Protection Against Neutron Radiation up to 30 MeV.* Reprints of this Hand-



book can be purchased as NCRP Report 38 at \$6.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 65, Safe Handling of Bodies Containing Radioactive Isotopes.* Reprints of this Handbook can be purchased as NCRP Report 37 at \$4.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 69, Maximum Permissible Body Burdens and Maximum Permissible Concentrations of Radionuclides in Air and in Water for Occupational Exposure.* Reprints of this Handbook can be purchased at \$3.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 71, Specifications for Dry Cells and Batteries.* Available as C18.1-1972 from the American National Standards Institute, 1430 Broadway, New York, NY 10018, at \$6.25.

*Handbook 73, Protection Against Radiations from Sealed Gamma Sources (Supersedes H54).* Reprints of this Handbook can be purchased as NCRP Report 40 at \$5.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 74, Building Code Requirements for Reinforced Masonry.* The American National Standards Institute, 1430 Broadway, New York, NY 10018 has issued a publication on this subject. Available from them as A41.2-1960 (R1970), at \$3.25.

*Handbook 75, Measurement of Absorbed Dose of Neutrons and of Mixtures of Neutrons and Gamma Rays.* Reprints of this Handbook can be purchased as NCRP Report 25 at \$3.00 per copy from NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 76, Medical X-ray Protection Up to Three Million Volts.* Now available as NCRP 33. Purchase from NCRP Publications, Post Office Box 30175, Washington, DC 20014 at \$4.00.

*Handbook 80, A Manual of Radioactivity Procedures.* Reprints of this Handbook will be available as NCRP Report 58 (in press). For

more information write to NCRP Publications, Post Office Box 30175, Washington, DC 20014.

*Handbook 81 and Its Supplements, Safety Rules for the Installation and Maintenance of Electrical Supply and Communication Lines* (also H3 and H110-1). All NBS publications on this subject have been superseded by National Electrical Safety Code, 1977 Edition, issued by the American National Standards Institute, 1430 Broadway, New York, NY 10018. Available from them as ANSI C2, at \$6.50.

*Handbook 84, Radiation Quantities and Units.* Reprints of this Handbook can be purchased as ICRU Report 19 at \$5.00 per copy from ICRU Publications, Post Office Box 30165, Washington, DC 20014.

*Handbook 89, Methods of Evaluating Radiological Equipment and Materials.* Reprints of this Handbook can be purchased as ICRU Report 10F at \$2.50 per copy from ICRU Publications, Post Office Box 30165, Washington, DC 20014.

*Handbook 96, Inspection of Processed Photographic Record Films for Aging Blemishes.* Reprints of this Handbook can be purchased as PH 1.28-1973 at \$4.00 per copy from the American National Standards Institute, 1430 Broadway, New York, NY 10018.

*Handbook 97, Shielding for High-Energy Electron Accelerator Installations.* July 1, 1964 has been combined with NBS Handbook 55. Available as NCRP Report 51, Radiation Protection Design Guidelines for 0.1-100 MeV Particle Accelerator Facilities from NCRP Publications, Post Office Box 30175, Washington, DC 20014 at \$6.00.

*Handbook 102, ASTM Metric Practice Guide.* Available as Z 210.1-1976 from the American National Standards Institute, 1430 Broadway, New York, NY 10018 at \$4.00.

*Handbook 110-1, National Electrical Safety Code, Part 1. Rules for Installation and Maintenance of Electric Supply and Communication Lines* (also H30 and H81 and its Supplements). All NBS publications on this subject have been

superseded by National Electrical Safety Code, 1977 Edition, issued by the American National Standards Institute, 1430 Broadway, New York, NY 10018. Available from them as ANSI C2, at \$6.50.

*Technical Note 938, Recommended Practice for the Use of Metric (SI) Units in Building Design and Construction*, has been superseded by ASTM E 621-78, Standard Practice of the Use of Metric (SI) Units in Building Design and Construction. It is available from the American Society for Testing and Materials, 1916 Race Street, Philadelphia, PA 19103. Price \$5.00.

### C. STATUS OF PUBLICATIONS CITED IN THIS DOCUMENT

The following list provides the current status of NBS-issued publications cited in this 11-year compilation, including those that have been superseded and those that are still in print at the Government Printing Office (GPO) or the National Technical Information Service (NTIS). NBS publications still available from the Superintendent of Documents, GPO, carry prices effective as of the date of this publication; but these prices are subject to change without notice. Publications shown as available from NTIS are represented by the NTIS price schedule in effect at the time of purchase.

NTIS prices as of this date are given below. Again, prices are subject to change.

Publications not listed are out of print; the abstracts have been included in this catalog for information purposes. Your nearest regional depository library may still have copies of these items. (See Section 2.4.)

#### NTIS PRICE SCHEDULE

Customers in Canada, U.S., and Mexico please use this price schedule; other addressees write for Folder PR-360-4.

A01 ..... \$3.00	E01 ..... \$3.25	T01 ..... \$110.00
A02 ..... 4.00	E02 ..... 4.75	T02 ..... 125.00
A03 ..... 4.50	E03 ..... 6.25	T03 ..... 175.00
A04 ..... 5.25	E04 ..... 7.50	T04 ..... 250.00
A05 ..... 6.00	E05 ..... 9.00	T05 ..... 300.00
A06 ..... 6.50	E06 ..... 10.50	T06 ..... 350.00
A07 ..... 7.25	E07 ..... 12.50	T07 ..... 400.00
A08 ..... 8.00	E08 ..... 15.00	T08 ..... 450.00
A09 ..... 9.00	E09 ..... 17.50	T09 ..... 500.00
A10 ..... 9.25	E10 ..... 20.00	T10 ..... 550.00
A11 ..... 9.50	E11 ..... 22.50	T11 ..... 600.00
A12 ..... 10.75	E12 ..... 25.00	T12 ..... 650.00
A13 ..... 11.00	E13 ..... 28.00	T13 ..... 675.00
A14 ..... 11.75	E14 ..... 31.00	T14 ..... 750.00
A15 ..... 12.00	E15 ..... 34.00	T15 ..... 800.00
A16 ..... 12.50	E16 ..... 37.00	T16 ..... 850.00
A17 ..... 13.00	E17 ..... 40.00	T17 ..... 900.00
A18 ..... 13.25	E18 ..... 45.00	T18 ..... 950.00
A19 ..... 14.00	E19 ..... 50.00	T19 ..... 1,000.00
A20 ..... 14.50	E20 ..... 60.00	T99 ..... *
A21 ..... 15.00	E99 ..... *	
A22 ..... 15.25		
A23 ..... 15.50	N01 ..... 28.00	
A24 ..... 16.25	N02 ..... 50.00	
A25 ..... 16.50		
A99 ..... *		

\*Contact NTIS for price quote

# MONOGRAPHS

No.	Price	No.	Price	No.	Price
2 (PB187-752) .....	*	56 (COM75-10244) .....	*	117 (SN003-003-00751-0) .....	.55
3 Vol. 1 .....	*	58 (PB193-909) .....	*	118 (PB194-751) .....	*
(COM71-01000-1) .....	*	60 (COM75-10053) .....	*	119 (COM71-50201) ....	*
3 Vol. 2 .....	*	63 (COM74-10737) .....	*		
(COM71-01000-2) .....	*	66 (COM75-10245) .....	*	120 (SN003-003-00749-8) .....	.85
4 (PB-174-987) .....	*	67 (PB186-426) .....	*	121 (COM75-10169) .....	*
7 (COM73-10503) .....	*	68 (COM71-00692) .....	*	124 (COM74-11728) .....	*
8 (PB186-237) .....	*	70 Vol. 1 (PB168-072) .....	*	125 (SN003-003-01177-1) .....	4.55
10 (COM75-10235) .....	*	70 Vol. 2 (PB189-714) .....	*	125 Sup. 1 (SN003-003-01391-9) .....	1.05
13 (PB172-156) .....	*	70 Vol. 3 .....	*	126 (SN003-003-01052-9) .....	2.10
15 (PB192-874) .....	*	(COM74-10794) .....	*		
20 (PB195-221) .....	*	70 Vol. 4 .....	*	127 (COM72-50359) .....	*
23 (PB183-992) .....	*	(COM74-10795) .....	*	128 (COM72-50903) .....	*
25 Sec. 1 (PB178-429) .....	*	70 Vol. 5 .....	*	129 (COM73-50098) .....	*
25 Sec. 2 (PB178-430) .....	*	(COM74-10796) .....	*	130 (SN003-003-01120-7) .....	1.10
25 Sec. 3 (PB178-431) .....	*	72 (PB186-427) .....	*	131 (SN003-003-01076-6) .....	10.70
25 Sec. 4 .....	*	73 (PB186-432) .....	*	132 (SN003-003-01082-1) .....	15.80
25 Sec. 5 .....	*	74 (PB195-213) .....	*	133 (COM74-50309) .....	*
25 Sec. 6 .....	*	75 .....	*	134 (COM73-50582) .....	*
25 Sec. 7 .....	*	76 (COM73-10502) .....	*	135 (SN003-003-01157-6) .....	.85
25 Sec. 8 (PB194-872) .....	*	77 (PB180-646) .....	*	136 (SN003-003-01160-6) .....	.50
25 Sec. 9 .....	*	80 (PB257-342) .....	*	137 (COM73-50960) .....	*
(COM72-50002) .....	*	82 (PB189-659) .....	*	138 (COM74-50459) .....	*
25 Sec. 10 .....	*	83 (COM75-10246) .....	*	139 (SN003-003-01317-0) .....	1.35
(COM72-51079) .....	*	84 (COM72-10513) .....	*	140 (SN003-003-01202-5) .....	9.20
25 Sec. 11 .....	*	85 (COM72-10379) .....	*	141 (SN003-003-01289-1) .....	5.50
(COM74-50183) ....	*	86 (COM75-10046) ....	*	142 (SN003-003-01290-4) .....	5.45
25 Sec. 12 (SN003-003-01376-5) .....	1.50	88 (SN003-003-00354-9) .....	1.05	143 (SN003-003-01373-1) .....	1.10
25 Sec. 13 (SN003-003-01629-2) .....	1.80	89 (AD700-466) .....	*	144 (SN003-003-01416-8) .....	5.05
27 & Suppls. See		91 (PB266-262) .....	*	145 Pt. 1 (SN003-003-01337-4) .....	8.55
SP373 (COM72-51036) *		92 .....	*	145 Pt. 2 (SN003-003-01338-2) .....	6.80
30 (PB193-908) .....	*	93 (COM73-10008) .....	*	146 (COM75-50997) .....	*
31 (COM75-10045) .....	*	94 (N65-32001) .....	*	147 (SN003-003-01412-5) .....	2.15
34 Vol. 1 .....	*	96 .....	*	147 Sup. 1 (SN003-003-01754-0) .....	1.10
(COM71-00631) .....	*	98 .....	*		
34 Vol. 2 .....	*	99 .....	*		
36 (COM75-10175) .....	*	100 .....	*		
39 (COM74-10933) .....	*	101 .....	*		
40 (COM71-00693) .....	*	102 .....	*		
41 (PB191-728) .....	*	103 .....	*		
42 (COM72-10377) .....	*	104 .....	*		
43 Vol. 1 .....	*	105 .....	*		
(COM73-10636) .....	*	106 .....	*		
43 Vol. 2 .....	*	107 .....	*		
(COM73-10637) .....	*	109 (AD681-912) .....	*		
45 (PB186-433) .....	*	111 .....	*		
46 (PB176-590) .....	*	112 .....	*		
47 (COM71-00691) .....	*	113 Vol. 1 (PB191-276) .....	*		
48 (PB246-865) .....	*	113 Vol. 2 (SN003-003-00304-2) .....	1.65		
49 (COM72-10380) .....	*	113 Vol. 3 (PB192-746) .....	*		
52 (COM73-10500) .....	*	116 .....	*		
54 (PB265-333) .....	*				



# MONOGRAPHS (Continued)

	Price	No.	Price	No.	Price
(SN003-003-01370-6) .....	1.15	153 (SN003-003-01651-9) .....	1.35		
(SN003-003-01390-1) .....	1.35	154 (SN003-003-01612-8) .....	1.70		
(SN003-003-02187-3) .....	1.40	157 (SN003-003-01681-1) .....	4.55		
(SN003-003-01621-7) .....	4.50				
(SN003-003-01552-1) .....	.85				

Available from The National Technical Information Service; use "PB", "AD", "COM", or NBS publication identification if no specific NTIS number is assigned. Available in Microfiche for \$3.00; consult NTIS for paper copy price.

# MISCELLANEOUS PUBLICATIONS

	Price	No.	Price	No.	Price
.....	*	260-11 .....	**	286	***
.....	*	260-12 .....	**		
(COM73-10871) .....	**	260-13 .....	**	287 .....	**
.....	**	260-14 .....	**	291 .....	**
Suppl	**	262-1 (PB261-051) .....	**	292 .....	**
(PB285-882) .....	**			294 .....	**
0-1 (COM74-11061) .....	**	262-2 (AD647-371) .....	**	This series name was changed to Special Publications beginning with SP295	
0-2 (COM74-11063) .....	**	265 (COM74-10927) .....	**		
0-3 (COM74-11060) .....	**	266 (PB168-063) .....	**		
0-4 (COM74-11059) .....	**	269 (PB258-618) .....	**		
0-5 (PB168-068) .....	**	273 (COM75-11102) .....	**		
0-6 (COM74-11068) .....	**				
0-7 (COM74-11067) .....	**	274 .....	**		
0-8 (COM74-11066) .....	**	275 (SN003-003-01266-1) .....	8.50		
0-9 (COM74-11065) .....	**	281 .....	**		
0-10 (COM74-11064) .....	**	284 .....	**		

See page XVIII for additional information.

Available from The National Technical Information Service; use "AD", "PB", "COM", or NBS publication identification if no specific NTIS number is assigned. Available in Microfiche for \$3.00; consult NTIS for paper copy price.

\*Superseded by NBS LC1071, free upon request from the Technical Information and Publications Division, National Bureau of Standards, Washington, DC 20234.

## SPECIAL PUBLICATIONS

No.	Price	No.	Price	No.	Price
250, 1978 Ed. (SN003-003- 01916-0) .....	3.00	260-53 (SN003-003- 01551-2) .....	1.05	307 .....	*
260 (SN003-003- 01445-1) .....	1.50	295 .....	*	309 Vol. 2 .....	*
260-16 (COM74-11062) .....	*	296 .....	*	310 .....	*
260-18 .....	*	299 .....	*	312 (Vol. 1&2 (COM73- 11439) .....	*
260-19 (PB190-071) .....	*	300 Vol. 1 (SN003- 003-00072-8) .....	9.00	313 .....	*
260-21 (COM74-11359) .....	*	300 Vol. 2 .....	*	314 (SN003-003- 00091-4) .....	6.45
260-22 (COM74-11357) .....	*	300 Vol. 3 (SN003- 003-00074-4) .....	8.05	317 Vol. 1 (COM71- 50268-01) .....	*
260-23 (COM71-00157) .....	*	300 Vol. 4 (SN003- 003-00778-1) .....	7.65	317 Vol. 2 (COM71- 50268-02) .....	*
260-24 (COM72-50058) .....	*	300 Vol. 5 (SN003- 003-00916-4) .....	8.65	319 (COM71-00066) .....	*
260-25 (COM74-11356) .....	*	300 Vol. 6 (SN003- 003-00696-3) .....	7.10	320 (AD701-614) .....	*
260-26 (SN003-003- 00786-2) .....	.85	300 Vol. 7 (SN003- 003-00887-7) .....	9.65	320 Sup. 1 (AD730-356) .....	*
260-27 (COM74-11358) .....	*	300 Vol. 8 (SN003- 003-00923-7) .....	8.75	320 Sup. 2 (COM74- 50034) .....	*
260-28 (COM71-50365) .....	*	300 Vol. 9 (SN003- 003-00917-2) .....	7.65	321 (PB194-963) .....	*
260-29 (COM71-50282) .....	*	300 Vol. 10 (SN003- 003-01179-7) .....	11.80	323 (COM72-50351) .....	*
260-30 (COM71-50283) .....	*	301 .....	*	324 (COM71-50070) .....	*
260-30 (COM71-50563) .....	*	302 .....	*	326 (COM71-50189) .....	*
260-32 (SN003-003- 01213-1) .....	.55	303 .....	*	327 (PB193-564) .....	*
260-33 (COM72-50526) .....	*	304 (SN003-003- 01072-3) .....	.65	329 (COM71-50172) .....	*
260-34 (COM72-50371) .....	*	304A (SN003-003- 01713-2) .....	.50	329 Sup. 1 (COM73- 50679) .....	*
260-35 (COM72-50368) .....	*	305 .....	*	329 Sup. 2 (SN003-003- 01362-5) .....	9.35
260-36 (COM72-50527) .....	*	305 Sup. 1 (PB259-274) .....	*	330 1977 Ed. (SN003- 003-01784-1) .....	1.7
260-37 (COM72-50C92) .....	*	305 Sup. 2 (COM71- 50354) .....	*	331 .....	*
260-38 (COM72-50528) .....	*	305 Sup. 3 (COM72- 50690) .....	*	332 (PB194-959) .....	*
260-39 (COM72-50529) .....	*	305 Sup. 4 (SN003-003- 01081-2) .....	4.20	333 (PB194-585) .....	*
260-40 (COM72-50776) .....	*	305 Sup. 5 (SN003-003- 01240-8) .....	4.15	334 (COM74-11482) .....	*
260-41 (COM72-50775) .....	*	305 Sup. 6 (SN003-003- 01361-7) .....	6.80	335 (COM75-10051) .....	*
260-42 (COM72-50944) .....	*	305 Sup. 7 (SN003-003- 01647-1) .....	7.55	336 (SN003-003- 00688-2) .....	9.70
260-43 (COM73-50760) .....	*	306 .....	*	337 (COM71-00182) .....	*
260-44 (COM73-50037) .....	*	306-2 .....	*	338 (COM74-10736) .....	*
260-45 (COM73-50226) .....	*	306-3 (PB264-245) .....	*	339 (COM71-50080) .....	*
260-46 (SN003-003- 01385-4) .....	1.00	306-4 (COM73-10870) .....	*	343 (COM71-50398) .....	*
260-47 (COM74-50176) .....	*			344 See SP398 .....	.25
260-48 (SN003-003- 01278-5) .....	.60			345 (SN003-003- 00884-2) .....	2.70
260-49 (SN003-003- 01344-7) .....	.75			345-1 (SN003-003- 00731-5) .....	1.70
260-50 (SN003-003- 01425-7) .....	1.00			345-2 (SN003-003- 00824-9) .....	3.20
260-51 (SN003-003- 01481-8) .....	1.90			345-3 (SN003-003- 00859-1) .....	1.75
260-52 (SN003-003- 01464-8) .....	1.05				

\*Available from The National Technical Information Service, use "AD", "PB", "COM", or NBS publication identification if no specific NTIS number is assigned. Available in Microfiche for \$3.00; consult NTIS for paper copy price.

## SPECIAL PUBLICATIONS (Continued)

	Price	No.	Price	No.	Price
-4 (SN003-003-00825-7) .....	3.20	366-2 (SN003-003-01544-0) .....	1.35	396-2 (SN003-003-01457-5) .....	1.10
-5 (SN003-003-00898-2) .....	2.15	368 Rev. 1976 (SN003-003-01665-9) .....	35 ea	396-3 (PB250-844) .....	*
-6 (SN003-003-00858-3) .....	2.30	369 (SN003-003-01124-8) .....	4.65 (per 100 cps.)	396-4 (SN003-003-01572-5) .....	1.55
-7 (SN003-003-00864-8) .....	1.75	370 (SN003-003-01057-0) .....	1.85	398 (SN003-003-01331-5) .....	.35
-8 (SN003-003-00895-8) .....	2.10	371 (COM73-50245) .....	.55	399-1 (SN003-003-01339-1) .....	2.35
-9 (COM71-50305) .....	*	371-1 (SN003-003-01422-2) .....	1.45	399-2 (SN003-003-01333-1) .....	2.85
-10 (SN003-003-00879-6) .....	3.05	372 (SN003-003-01059-6) .....	2.35	399-3 (SN003-003-01334-0) .....	2.90
-11 (SN003-003-00835-4) .....	2.70	373 (COM72-51036) .....	*	400-1 (COM74-50305) .....	*
-12 (SN003-003-00865-6) .....	2.00	374 (SN003-003-01061-8) .....	5.20	400-2 (SN003-003-01226-2) .....	1.50
5 (COM71-50147) ...	*	375 (COM73-50839) .....	*	400-3 (SN003-003-01236-0) .....	.60
7 (COM71-50202) ...	*	376 (SN003-003-01080-4) .....	.60	400-4 (SN003-003-01354-4) .....	1.70
8 (SN003-003-00893-1) .....	7.45	377 (SN003-003-01107-0) .....	.85	400-5 (SN003-003-01372-2) .....	1.10
9 (COM72-50807) .....	*	378 (COM73-50585) .....	*	400-6 (SN003-003-01313-7) .....	.60
10 (COM71-50276) .....	*	380 (SN003-003-01109-6) .....	2.10	400-7 (SN003-003-01635-7) .....	.75
11 (SN003-003-01027-8) .....	6.45	381 (COM73-50932) .....	*	400-8 (SN003-003-01374-9) .....	1.30
12 (COM75-10291) .....	*	382 (SN003-003-01176-2) .....	3.30	400-9 (SN003-003-01357-9) .....	1.00
13 (COM71-50364) .....	*	383 (SN003-003-01171-1) .....	2.10	400-10 (SN003-003-01358-7) .....	3.55
14 (COM72-50808) .....	*	384 Rev. 1976 (SN003-003-01670-5) .....	2.45	400-11 (SN003-003-01428-1) .....	1.00
15 (COM71-50385) .....	*	385 (COM74-50307) .....	*	400-12 (AD-A011121) .....	*
16 (SN003-003-00934-2) .....	2.05	386 (SN003-003-01593-8) .....	1.90	400-13 (SN003-003-01382-0) .....	.75
17 (SN003-003-00928-8) .....	5.40	387 .....	*	400-15 (SN003-003-01566-1) .....	1.25
18 (COM72-50057) .....	*	388 (COM74-50543) .....	*	400-17 (SN003-003-01480-0) .....	1.40
19 Vol. 1 (COM72-10309) .....	*	389 Superseded by LC1070 .....	**	400-18 (SN003-003-01577-6) .....	1.25
20 Vol. 2 (COM72-50850) .....	*	390 (COM74-50352) .....	*	400-19 (SN003-003-01606-3) .....	2.10
21 (SN003-003-01000-6) .....	1.15	391 (SN003-003-01260-2) .....	2.50	400-20 (SN003-003-01473-7) .....	1.00
22 (SN003-003-00962-8) .....	1.45	392 (SN003-003-01272-6) .....	1.30	400-21 (SN003-003-01565-2) .....	1.30
23 (COM72-50746) .....	*	393 (COM74-50350) .....	*		
24 (SN003-003-01068-5) .....	.50	394 (COM74-50523) .....	*		
25 (SN003-003-01044-8) .....	2.80	395 (SN003-003-01300-5) .....	4.25		
26-1 (COM74-50063) .....	*	396-1 (SN003-003-01274-2) .....	1.25		

Available from The National Technical Information Service, use "AD", "PB", "COM", or NBS publication identification if no specific NTIS number is assigned. Available in Microfiche for \$3.00; consult NTIS for paper copy price.

\*Superseded by NBS LC1071, free upon request from the Technical Information and Publications Division, National Bureau of Standards, Washington, DC 20234.

## SPECIAL PUBLICATIONS (Continued)

No	Price	No.	Price	No.	Price
400-22 (SN003-003-01623-3) .....	1.45	417 (SN003-003-01395-1) .....	6.75	439 (SN003-003-01575-0) .....	.9
400-23 (SN003-003-01604-7) .....	3.70	418 (SN003-003-01398-6) .....	1.00	441 (SN003-003-01568-7) .....	2.3
400-25 (SN003-003-01678-1) .....	1.45	419 (SN003-003-01410-9) .....	2.80	442 (SN003-003-01614-4) .....	3.3
400-26 (SN003-003-01600-4) .....	.55	420 (SN003-003-01408-7) .....	3.00	443 (SN003-003-01633-1) .....	4.1
400-27 (SN003-003-01569-5) .....	1.20	421 (SN003-003-01418-4) .....	1.65	444 (SN003-003-01588-1) .....	5.8
400-28 (SN003-003-01628-4) .....	1.25	422 1 & 2 (SN003-003-01458-3) .....	20.00	445-1 (SN003-003-01632-2) .....	1.2
400-34 (SN003-003-01707-8) .....	1.45	423 (SN003-003-01451-6) .....	6.10	446 (SN003-003-01641-1) .....	2.0
401 (COM74-50931) .....	*	424 (SN003-003-01599-7) .....	2.90	447 (SN003-003-01654-3) .....	1.00
403 (SN003-003-01638-1) .....	3.30	425 (SN003-003-01461-3) .....	19.45	448 (SN003-003-01663-2) .....	1.90
404 (SN003-003-01319-6) .....	1.45	426 (SN003-003-01465-6) .....	3.30	449 (SN003-003-01677-2) .....	2.00
405 (SN003-003-01346-3) .....	1.05	427 (SN003-003-01472-9) .....	3.00	451 (SN003-003-01662-4) .....	3.00
406 (SN003-003-01393-5) .....	2.45	428 (SN003-003-01541-5) .....	28.50	452 (SN003-003-01664-1) .....	2.65
407 (SN003-003-01379-0) .....	3.75	429 (SN003-003-01463-0) .....	1.95	453 (SN003-003-01700-1) .....	3.55
408 (SN003-003-01389-7) .....	12.60	430 (SN003-003-01542-3) .....	.35	454 (SN003-003-01666-7) .....	1.65
409 (SN003-003-01359-5) .....	3.90	431 (SN003-003-01608-0) .....	11.00	455 (SN003-003-01699-3) .....	4.45
410 1977 Ed. (SN003-003-01736-1) .....	2.00	432 (SN003-003-01587-3) .....	.60	456 (PB262-111) .....	*
411 (SN003-003-01356-1) .....	3.10	433 (SN003-003-01639-0) .....	3.50	457 (SN003-003-01685-3) .....	1.80
412 (SN003-003-01341-2) .....	2.65	434 (SN003-003-01624-1) .....	.55	459 (SN003-003-01686-1) .....	3.40
413 1976 Ed. (SN003-003-01601-2) .....	1.35	435 (SN003-003-01603-9) .....	5.60	460 (SN003-003-01737-0) .....	2.35
414 (ADA012377) .....	*	436 (SN003-003-01556-3) .....	4.25	462 (SN003-003-01729-9) .....	4.60
415 (SN003-003-01363-3) .....	1.75	437 (SN003-003-01557-1) .....	1.05		
		438 (SN003-003-01581-4) .....	2.40		

\*Available from The National Technical Information Service, use "AD", "PB", or "COM" number when ordering. Available in Microfiche for \$3.00; consult NTIS for paper copy price.

# HANDBOOKS

	Price	No.	Price	No.	Price
1969 (Pt. 1) .....	*	76 .....	*	107 (PB191-898) .....	**
1957 (Pt. 2) .....	*	80 .....	*	109 (COM72-50183) .....	**
1957 (Pt. 3) .....	*	81 # .....	*	110-1 .....	*
		81 Suppl. 2 .....	*	111 (COM72-50698) .....	**
		84 .....	*	112 (COM73-50836) .....	**
		85 (SN003-003-00131-7) .....	2.20	113 (SN003-003-01274-6) .....	2.15
4th Ed. (SN003-003-00894-0) .....	7.90	86 (SN003-003-00132-5) .....	1.30	114 (SN003-003-01377-3) .....	.90
	*	87 (SN003-003-00133-3) .....	2.10	115 (SN003-003-01323-4) .....	2.90
	*	88 (SN003-003-00134-1) .....	1.05	115 Sup. 1 (SN003-003-01582-2) .....	2.25
(SN003-003-00115-5) .....	.60	89 .....	*	116 (SN003-003-01456-7) .....	1.10
	*	90 (PB188-654) .....	*		
	*	91 (SN003-003-00135-0) .....	11.00	117 (SN003-003-01563-6) .....	.75
(PB248-218) .....	*	92 (SN003-003-00136-8) .....	2.10	118 (SN003-003-01567-9) .....	2.70
	*	94 (COM73-10635) .....	**	119 (SN003-003-01646-2) .....	5.10
(COM73-10872) .....	**	96 .....	*	120 (SN003-003-01667-5) .....	.70
	*	97 .....	*		
	*	98 (COM72-10619) .....	**		
	*	99 .....	**		
		100 .....	**		
(SN003-003-00123-6) .....	1.30	101 .....	**		
	*	102 .....	*		
	*	105-1 (COM72-50707) .....	*		
	*	105-2 (COM71-50065) .....	*		

amends in part: Part 2, Definitions and the Grounding Rules of these Hand-  
oks.

See page XVIII for additional information.

Available from The National Technical Information Service, use "PB", "COM",  
NBS publication identification if no specific NTIS number is assigned.

Available in Microfiche for \$3.00; consult NTIS for paper copy price.



# NATIONAL STANDARD REFERENCE DATA SERIES

No.	Price	No.	Price	No.	Price
1 (SN003-003-00627-1) .....	.55	22 (Vol. 2 (AD696-884) .....	*	43 Suppl. (SN003-003-01429-0) ....	1.1
2 .....	*	23 .....	*	44 (COM74-50175) .....	*
3 Sec. 1 .....	*	24 .....	*	45 (SN003-003-01165-7) .....	.7
3 Sec. 2 .....	*	25 .....	*	46 (COM73-50623) .....	*
3 Sec. 3 (COM72-50056) .....	*	26 .....	**	47 (SN003-003-01125-8) .....	2.2
3 Sec. 4 (COM71-50346) .....	*	27 (SN003-003-00637-8) .....	1.80	48 (SN003-003-01166-5) .....	.8
3 Sec. 5 (SN003-003-01444-3) .....	1.80	28 .....	*	49 (SN003-003-01190-8) .....	1.7
3 Sec. 6 (SN003-003-00998-9) .....	1.15	29 .....	*	50 (AD771-200) .....	*
3 Sec. 7 (SN003-003-01558-0) .....	.85	31 (PB189-028) .....	1.15	51 (SN003-003-01414-1) .....	1.
4 (SN003-003-00646-7) .....	6.45	32 (SN003-003-00729-3) .....	1.65	52 (SN003-003-01262-9) .....	1.1
5 .....	*	33 (PB192-183) .....	9.25	53 (SN003-003-01426-5) .....	1.1
8 (PB189-698) .....	*	34 (SN003-003-00770-6) .....	7.95	54 (SN003-003-01406-1) .....	.8
9 .....	*	35 Vol. 1 (SN003-003-00949-1) .....	8.30	55 (SN003-003-01431-1) .....	.8
10 .....	*	35 Vol. 2 (SN003-003-00935-1) .....	15.60	56 (SN003-003-01396-0) .....	.8
12 .....	*	35 Vol. 3 (SN003-003-00950-4) .....	*	57 (SN003-003-01609-8) .....	.5
13 (SN003-003-00622-0) .....	3.00	36 (COM71-50203) .....	*	58 (SN003-003-01627-6) .....	.7
14 .....	*	37 (SN003-003-00872-9) .....	5.10		
15 .....	*	38 (COM71-50351) .....	*		
16 .....	*	39 (SN003-003-00845-1) .....	*		
18 (SN003-003-00628-9) .....	1.15	40 (COM72-50439) .....	*		
19 (SN003-003-00629-7) .....	.65	41 (COM72-50849) .....	*		
20 .....	*	42 (COM72-50886) .....	*		
21 (PB191-956) .....	*	43 (SN003-003-01083-9) .....	1.05		

\*Available from The National Technical Information Service, use "AD", "PB", "COM", or NBS publication identification if no specific NTIS number is assigned. Available in Microfiche for \$3.00; consult NTIS for paper copy price.

\*\*Superseded by the Journal of Physical and Chemical Reference Data, Vol. 6, Supp. 1; available from the American Chemical Society, 1155 16th St., N. W., Washington, DC 20036.

# BUILDING SCIENCE SERIES

	Price	No.	Price	No.	Price
0 (COM71-00046) .....	*	41 (COM72-50533) .....	*	69 (SN003-003-01622-5) .....	4.60
1 (PB189-713) .....	*	42 (COM72-50675) .....	*	70 (SN003-003-01437-1) .....	1.55
2 Pt. 1 (COM72-10542) .....	*	43 (COM75-10173) .....	*	71 (SN003-003-01459-1) .....	2.25
3 .....	*	44 (SN003-003-01071-5) .....	.65	72 (SN003-003-01474-5) .....	1.80
4 .....	*	45 (COM73-50725) .....	*	73 (SN003-003-01479-6) .....	1.25
5 Pt. 2 .....	*	46 (COM73-50188) .....	*	74 (SN003-003-01477-0) .....	1.55
6 .....	*	47 (COM73-50975) .....	*	75 .....	*
7 .....	*	48 (SN003-003-01212-2) .....	4.85	76 (SN003-003-01644-6) .....	1.45
8 (COM73-10487) .....	*	49 (COM74-50353) .....	*	77 (SN003-003-01539-8) .....	2.35
9 (PB193-907) .....	*	50 (SN003-003-01282-3) .....	.55	78 (SN003-003-01537-7) .....	1.25
0 .....	*	51 (SN003-003-01267-0) .....	.90	79 (SN003-003-01546-6) .....	1.15
1 .....	*	52 (COM74-50537) .....	*	80 (SN003-003-02183-1) .....	1.15
2 .....	*	53 (SN003-003-01284-0) .....	.85	81 (SN003-003-01591-1) .....	.45
3 .....	*	54 (SN003-003-01307-2) .....	1.25	82 (SN003-003-02185-7) .....	.50
4 .....	*	55 (COM74-51188) .....	*	83 (SN003-003-01592-0) .....	.55
5 .....	*	56 (SN003-003-01335-8) .....	2.35	85 (SN003-003-01619-5) .....	2.25
6 .....	*	57 (SN003-003-01364-1) .....	1.20	86 (SN003-003-01637-3) .....	1.05
7 (PB193-736) .....	*	58 (SN003-003-01349-8) .....	2.00	87 (SN003-003-01642-0) .....	4.40
9 .....	*	59 (SN003-003-01392-7) .....	1.30	88 (SN003-003-01693-4) .....	.65
0 (PB189-639) .....	*	60 (SN003-003-01352-8) .....	1.05	89 (SN003-003-01706-0) .....	.75
1 (PB189-459) .....	*	61 (COM75-10473) .....	*	90 (PB257-581) .....	*
2 (PB189-456) .....	*	62 (SN003-003-01738-8) .....	1.90	91 (SN003-003-01690-0) .....	1.40
3 .....	*	63 (SN003-003-01407-9) .....	.70	92 (SN003-003-01692-6) .....	.70
4 .....	*	64 (SN003-003-01360-9) .....	1.35		
5 (PB188-789) .....	*	65 (SN003-003-01394-3) .....	1.00		
6 .....	*	66 (SN003-003-01417-6) .....	2.10		
7 (PB191-304) .....	*	67 (SN003-003-01468-1) .....	1.20		
8 (PB193-924) .....	*	68 (SN003-003-01419-2) .....	1.25		
9 (PB190-603) .....	*				
0 (COM71-00141) .....	*				
1 (PB193-601) .....	*				
2 (COM71-50078) .....	*				
3 (COM71-00159) .....	*				
4 (COM75-10286) .....	*				
5 (COM71-50591) .....	*				
6 (SN003-003-00850-8) .....	1.55				
7 (SN003-003-00857-5) .....	1.25				
8 (COM71-50345) .....	*				
9 (COM72-50068) .....	*				
0 (SN003-003-00940-7) .....	3.95				

\*Available from the National Technical Information Service; use "PB", "COM" or NBS Publication identification if no specific NTIS number is assigned. Available in Microfiche for \$3.00; consult NTIS for paper copy price.



# VOLUNTARY PRODUCT STANDARDS

No.	Price	No.	Price	No.	P
1-74 (SN003-003-01387-1) .....	.85	48-71 (SN003-003-00925-3) .....	.35	60-73 (SN003-003-01248-3) .....	
15-69 (SN003-003-00188-1) .....	.40	50-71 (SN003-003-00877-0) .....	.35	61-74 (SN003-003-01421-4) .....	
20-70 (SN003-003-00192-9) .....	.40	51-71 (SN003-003-00963-6) .....	.35	62-74 (SN003-003-01375-7) .....	
38-70 (SN003-003-00842-7) .....	.45	52-71 (SN003-003-00990-3) .....	.35	63-75 (SN003-003-01415-0) .....	
39-70 (SN003-003-00840-1) .....	.65	57-73 (SN003-003-01182-7) .....	.40	64-75 (SN003-003-01583-1) .....	
42-70 (SN003-003-00901-6) .....	.65	58-73 (SN003-003-01295-5) .....	.40	65-75 (SN003-003-01585-7) .....	
46-71 (SN003-003-00936-9) .....	.35	59-73 (SN003-003-01255-6) .....	.45		

# FEDERAL INFORMATION PROCESSING STANDARDS SERIES

No.	Price	No.	Price	No.	P
0 .....	3.50	17-1 .....	4.00	34 .....	3
1 .....	3.50	18-1 .....	4.00	35 .....	4
2 .....	3.50	19 .....	3.50	36 .....	3
3-1 .....	3.50	20 .....	3.50	37 .....	3
4 .....	3.50	21-1 .....	13.50	38 .....	4
5-1 .....	3.50	22-1 .....	4.00	39 .....	3
6-2 .....	4.00	23 .....	3.50	40 .....	4
7 .....	3.50	24 .....	4.00	41 .....	3
8-4 .....	3.50	25 .....	3.50	42-1 .....	3
9 .....	3.50	26 .....	3.50	43 .....	4
10-2 .....	4.00	27 .....	3.50	44 .....	3
11-1 .....	4.00	28 .....	3.50	45 .....	4
12-2 .....	7.50	29 .....	3.50		
13 .....	3.50	30 .....	3.50		
14 .....	3.50	31 .....	5.00		
15 .....	3.50	32 .....	5.00		
16-1 .....	4.00	33 .....	4.00		

Available only from the National Technical Information Service.

# APPLIED MATHEMATICS SERIES

No.	Price	No.	Price	No.	Price
1 See AMS25 .....	*	23 (PB175-967) .....	*	45 (COM74-10639) .....	*
2 (PB194-385) .....	*	24 (PB175-816) .....	*	46 (PB186-429) .....	*
3 (PB251-959) .....	*	25 .....	*	47 (PB251-902) .....	*
4 (PB251-962) .....	*	26 (PB178-415) .....	*	48 (PB176-119) .....	*
5 (COM73-10501) .....	*	27 (AD694-116) .....	*	49 (PB251-903) .....	*
6 (PB251-862) .....	*	28 (AD695-952) .....	*	50 (PB176-520) .....	*
7 (PB251-863) .....	*	29 (AD695-953) .....	*	51 (PB248-467) .....	*
8 (PB251-864) .....	*	30 (PB175-817) .....	*	52 (PB251-904) .....	*
9 (COM73-10498) .....	*	31 (COM74-11112) .....	*	53 (PB186-430) .....	*
0 (PB251-960) .....	*	32 (COM73-10499) .....	*	54 (COM73-11111) .....	*
1 (AD702-411) .....	*	33 (PB175-818) .....	*	55 (SN003-003-00279-8) .....	12.65
2 (PB184-887) .....	*	34 (SN003-003-00272-1) .....	4.70	56 (PB190-608) .....	*
3 (PB251-865) .....	*	35 (PB251-103) .....	*	57 (PB266-263) .....	*
4 (SN003-003-00270-4) .....	11.70	36 (PB251-871) .....	*	58 (AD700-470) .....	*
5 (PB251-866) .....	*	37 (PB251-872) .....	*	59 (SN003-003-00282-8) .....	6.80
6 (PB251-867) .....	*	38 (PB251-900) .....	*	60 (SN003-003-00283-6) .....	1.45
7 (PB251-868) .....	*	39 (PB251-901) .....	*	61 (PB188-790) .....	*
8 (PB175-819) .....	*	40 (PB186-428) .....	*	62 (SN003-003-00993-8) .....	1.20
9 (PB175-815) .....	*	41 (PB176-521) .....	*	63 (SN003-003-00988-1) .....	3.45
0 (PB251-870) .....	*	42 (PB175-819) .....	*		
1 (PB178-392) .....	*	43 (PB176-127) .....	*		
2 (PB192-337) .....	*	44 (AD698-954) .....	*		

Available from The National Technical Information Service; use "PB", "AD", "COM", or NBS publication identification if no specific NTIS number is assigned. Available in Microfiche for \$3.00; consult NTIS for paper copy price.

# CONSUMER INFORMATION SERIES

No.	Price	No.	Price	No.	Price
1 (SN003-003-00680-7) .....	.90	4 (SN003-003-00920-2) .....	1.10	7 (SN003-003-01688-8) .....	.35
3 (SN003-003-00682-3) .....	.60	5 (SN003-003-00941-5) .....	.70	8 (SN003-003-01446-0) .....	.70
		6 (SN003-003-01536-9) .....	1.70		

# TECHNICAL NOTES

No.	Price	No.	Price	No.	Price
1 (PB151-360) .....	*	18-19 (PB195-218) .....	*	40-9 (PB189-933) .....	*
2 (PB151-361) .....	*	18-20 (PB168-044) .....	*	40-10 (PB189-934) .....	*
2-2 (PB151-361-2) .....	*	18-21 (PB195-219) .....	*	40-11 (PB189-935) .....	*
3 (PB151-362) .....	*	18-22 (N661-3994) .....	*	40-12 (PB189-936) .....	*
4 (PB151-363) .....	*	18-23 (COM74-10437) .....	*	40-13 (PB151-399-13) .....	*
5 (PB151-364) .....	*	18-24 (COM74-10438) .....	*	41 (PB151-400) .....	*
6 (PB151-365) .....	*	18-25 (COM74-10473) .....	*	42 (PB151-401) .....	*
7 (PB151-366) .....	*	18-26 (COM74-10439) .....	*	43 (PB151-402) .....	*
8 (PB151-367) .....	*	19 (PB151-378) .....	*	44 (PB151-403) .....	*
9 (PB151-368) .....	*	20 (PB151-379) .....	*	45 (PB151-404) .....	*
10 (PB151-369) .....	*	21 (PB151-380) .....	*	46 (PB151-405) .....	*
11 (PB151-370) .....	*	22 (PB151-382) .....	*	47 (PB151-406) .....	*
12 (PB151-371) .....	*	23 (PB151-382) .....	*	48 (PB151-407) .....	*
13 (PB151-372) .....	*	24 (PB151-383) .....	*	49 (PB151-408) .....	*
14 (PB151-373) .....	*	25 (PB151-384) .....	*	50 (PB151-409) .....	*
15 (PB151-374) .....	*	26 (PB151-385) .....	*	51 (PB161-552) .....	*
16 (PB151-375) .....	*	27 (PB151-386) .....	*	52 (PB161-553) .....	*
18 (PB151-377) .....	*	28 (PB151-388) .....	*	53 (PB161-554) .....	*
18-2 (PB151-377-2) .....	*	29 (PB151-388) .....	*	54 (PB161-555) .....	*
18-3 (PB151-377-3) .....	*	30 (PB151-389) .....	*	55 (PB161-556) .....	*
18-4 (PB151-377-4) .....	*	31 (PB151-390) .....	*	56 (PB161-557) .....	*
18-5 (PB151-377-5) .....	*	33 (PB151-392) .....	*	57 (PB161-558) .....	*
18-6 (PB151-377-6) .....	*	34 (PB151-393) .....	*	58 (PB161-559) .....	*
18-7 (PB151-377-7) .....	*	35 (PB151-394) .....	*	59 (PB161-560) .....	*
18-8 (PB151-377-8) .....	*	37 (PB151-396) .....	*	60 (PB161-561) .....	*
18-9 (PB151-377-9) .....	*	38 (PB151-397) .....	*	61 (PB161-562) .....	*
18-10 (PB151-377-10) .....	*	39 (PB151-398) .....	*	62 (PB161-563) .....	*
18-11 (PB151-377-11) .....	*	40-1 (PB151-399-1) .....	*	63 (PB161-564) .....	*
18-12 (PB151-377-12) .....	*	40-2 (PB151-399-2) .....	*	64 (PB161-565) .....	*
18-13 (PB151-377-13) .....	*	40-3 (PB151-399-3) .....	*	66 (PB161-567) .....	*
18-14 (PB195-273) .....	*	40-4 (PB151-399-4) .....	*	67 (PB161-568) .....	*
18-15 (PB195-215) .....	*	40-5 (PB151-399-5) .....	*	68 (PB161-569) .....	*
18-16 (PB195-216) .....	*	40-6 (PB151-399-6) .....	*	69 (PB161-570) .....	*
18-17 (PB195-217) .....	*	40-7 (PB151-399-7) .....	*	70 (PB161-571) .....	*
18-18 (PB168-058) .....	*	40-8 (PB189-932) .....	*	71 (PB161-572) .....	*

\* Available from the National Technical Information Service; use "PB", "AD", "N", "COM", or NBS publication number when ordering. Available in Microfiche for \$3.00; consult NTIS for paper copy price.

# TECHNICAL NOTES (Continued)

	Price	No.	Price	No.	Price
(PB161-573) .....	*	120A (PB190-611) .....	*	196 (COM73-10483) .....	*
(PB161-574) .....	*	121 (PB161-622) .....	*	197 (AD419-866) .....	*
(PB161-575) .....	*	122 (PB161-623) .....	*	199 (AD683-408) .....	*
(PB161-576) .....	*	123 (PB161-624) .....	*	200 (N64-14272) .....	*
(PB161-577) .....	*	124 (PB161-625) .....	*	201 (PB182-539) .....	*
(PB161-578) .....	*	125 (PB161-626) .....	*	202 .....	*
(PB161-579) .....	*	128 (PB161-629) .....	*	204 (PB184-118) .....	*
(PB161-580) .....	*	129 (PB161-630) .....	*	205 (COM73-10634) .....	*
(PB161-581) .....	*	129A .....	*	206-1 (COM73-10684) .....	*
(PB161-582) .....	*	130 (PB161-631) .....	*	206-2 (COM73-10685) .....	*
(PB161-583) .....	*	131 (PB161-632) .....	*	206-3 (COM73-10686) .....	*
(PB161-584) .....	*	132 (PB161-633) .....	*	206-4 (COM73-10687) .....	*
(PB161-585) .....	*	133 (PB161-634) .....	*	206-5 (COM73-10688) .....	*
(PB161-586) .....	*	134 (PB161-635) .....	*	207 (COM73-10689) .....	*
(PB161-587) .....	*	135 (PB161-636) .....	*	209 (PB168-043) .....	*
(PB161-588) .....	*	136 (PB161-637) .....	*	210 (PB189-930) .....	*
(PB161-589) .....	*	137 (PB161-638) .....	*	211 .....	*
(PB161-590) .....	*	138 (PB161-639) .....	*	214 (PB189-931) .....	*
(PB161-591) .....	*	139 (PB161-640) .....	*	215 (PB188-808) .....	*
(PB161-592) .....	*	140 (PB161-641) .....	*	217 (PB189-103) .....	*
(PB161-593) .....	*	141 (PB161-729) .....	*	218 (PB188-809) .....	*
(PB161-594) .....	*	142 (PB161-643) .....	*	219 (PB186-279) .....	*
(PB161-595) .....	*	143 (PB161-644) .....	*	220 (COM74-11077) .....	*
(PB151-596) .....	*	146 (PB161-647) .....	*	221 (COM71-00690) .....	*
(PB161-597) .....	*	147 (PB161-648) .....	*	223 (PB168-051) .....	*
(PB161-598) .....	*	148 (PB161-649) .....	*	224 (PB184-119) .....	*
(PB186-280) .....	*	151 (PB191-730) .....	*	225 (AD614-056) .....	*
(PB186-431) .....	*	154 (PB172-217) .....	*	226 (PB168-042) .....	*
(COM74-10393) .....	*	154A (PB182-435) .....	*	227 (PB184-473) .....	*
I-A .....	*	160 .....	*	228 (PB191-731) .....	*
-1 (AD687-820) .....	*	163 (COM71-01002) .....	*	229 (PB188-805) .....	*
-2 (AD687-821) .....	*	164 (N-6314864) .....	*	231 (COM72-10587) .....	*
(PB161-603) .....	*	165 (AD401-044) .....	*	233 (COM75-10054) .....	*
(PB161-607) .....	*	166 (PB181-454) .....	*	234 (COM73-10485) .....	*
(PB161-608) .....	*	171 .....	*	235 (COM73-10481) .....	*
(PB161-609) .....	*	172 (PB193-915) .....	*	236 (AD437-308) .....	*
(PB161-610) .....	*	173 (COM75-10523) .....	*	237 (COM75-10166) .....	*
(PB161-611) .....	*	174 (COM72-10376) .....	*	245 (PB184-177) .....	*
(PB161-612) .....	*	177 (COM72-10514) .....	*	249 (PB168-046) .....	*
(PB161-613) .....	*	178 (PB190-917) .....	*	252 (AD612-812) .....	*
(PB161-614) .....	*	179 (PB190-610) .....	*	253 (PB184-176) .....	*
(PB161-615) .....	*	180 (COM75-10083) .....	*	255 (AD614-257) .....	*
(PB161-616) .....	*	182 (COM75-10283) .....	*	260 (PB168-041) .....	*
(PB161-617) .....	*	183 (COM75-10052) .....	*	262-A (COM73-10486) .....	*
(PB161-618) .....	*	187 (PB188-807) .....	*	263 (COM75-10486) .....	*
(PB161-619) .....	*	191 (PB182-538) .....	*	266 (PB195-214) .....	*
(PB161-620) .....	*	194 See NSRDS1 .....	.55	267 (AD628-586) .....	*
(PB161-621) .....	*	195 (COM73-10418) .....	*		

Available from the National Technical Information Service, use "PB", "AD", "COM", "N", or NBS  
 publication identification if no specific NTIS number is assigned. Available in Microfiche for  
 \$10; consult NTIS for paper copy price.

# TECHNICAL NOTES (Continued)

No.	Price	No.	Price	No.	Price
268	*	347	*	414 (PB176-109)	*
270-1 See TN270-3	3.25	349	*	416	*
270-2 See TN270-3	3.25	355	*	417	*
270-3 (SN003-003-00406-5)	3.25	360 (PB190-125)	*	419 (PB179-432)	*
270-4 (SN003-003-00407-3)	2.10	361 (COM73-50052)	*	420	*
270-5 (COM71-50171)	*	361 (SN003-003-01321-8)	1.25	421	*
270-6 (SN003-003-00932-6)	1.90	(Metric Version)		423	*
270-7 (COM73-50435)	*	362 (COM74-10482)	*	425	*
273 (PB248-534)	*	363	*	426	*
275 (COM73-10484)	*	364	*	428	*
277	*	365	*	431	*
278	*	365-1 (COM71-00048)	*	432	*
279 (COM75-10375)	*	366	*	434	*
280 (COM72-10590)	*	367	*	435	*
285 (AD633-354)	*	368	*	436	*
287 (PB182-436)	*	370 (AD688-697)	*	437	*
288	*	372	*	438 (AD665-245)	*
291	*	373	*	439	*
292 (COM75-10335)	*	374	*	440	*
293 (AD642-236)	*	375	*	444	*
294 (PB176-289)	*	377	*	445	*
295	*	378	*	461	*
297 (PB188-657)	*	379 (SN003-003-00834-6)	.65	464	*
298 (PB186-238)	*	381	*	465	*
300 (PB168-048)	*	382	*	467 (COM72-50871)	*
303 (AD611-400)	*	383	*	469	*
304 (AD615-936)	*	384 (COM75-10174)	*	470	*
307 (PB168-040)	*	385 (PB190-548)	*	472 (AD681-330)	*
309 (N-65-24999)	*	386 (PB191-638)	*	473	*
310 (AD615-937)	*	387 (COM74-50059)	*	474 (AD681-351)	*
318 (COM75-10374)	*	388 (COM71-50077)	*	475 (AD683-808)	*
319	*	389	*	476	*
321 (COM75-10238)	*	390 (PB191-639)	*	477	*
322 (COM75-10236)	*	391	*	478 (PB190-609)	*
323 (COM75-10237)	*	392 (COM74-50057)	*	479	*
324 (AD654-887)	*	393 (COM75-10043)	*	480	*
331	*	397 (COM71-50060)	*	483	*
332	*	398 (SN003-003-00814-1)	.40	484 (AD692-231)	*
334 (PB173-291)	*	399 (COM71-50294)	*	485	*
341	*	400	*	486	*
343	*	403	*	487	*
345	*	406	*	488 (AD692-232)	*
346 (PB194-282)	*	409	*	490	*
		410	*	491	*
		411	*	495 (AD695-820)	*
		412	*	496 (PB284-674)	*

\* Available from the National Technical Information Service, use "PB", "AD", "COM", "N", or NB publication identification if no specific NTIS number is assigned. Available in Microfiche for \$3.00; consult NTIS for paper copy price.



# TECHNICAL NOTES (Continued)

	Price	No.	Price	No.	Price
(AD695-821).....	*	569 (COM74-10436).....	*	604 (SN003-003-00861-3).....	.65
(SN003-003-00590-8).....	.65	570 (COM71-50075).....	*	605 (COM71-50332).....	*
-1 (SN003-003-00774-9).....	.60	572 (COM71-50150).....	*	606 (COM71-50325).....	*
-2 (SN003-003-00686-6).....	.70	573 (COM71-50227).....	*	607 (AD734-035).....	*
(PB191-352).....	*	575 (COM75-10280).....	*	609 (AD730-357).....	*
	*	577 (COM71-50264).....	*	610 (COM72-50059).....	*
	*	578 (COM75-10185).....	*	612 (COM72-50205).....	*
	*	579 (COM75-10184).....	*	613 (COM72-50020).....	*
	*	584 (COM71-50635).....	*	614 (COM72-50523).....	*
	*	585 (COM72-50066).....	*	615 (COM72-50524).....	*
	*	589 (COM72-50061).....	*		
(AD702-871).....	*	590 (COM71-50292).....	*	616 2nd Rev. (SN003-003-01798-1).....	1.30
(SN003-003-00606-8).....	.65	591 (COM75-10168).....	*	618 (COM72-50695).....	*
	*	592 (SN003-003-00892-3).....	1.15	619 (COM72-50955).....	*
(PB190-760).....	*	593 (COM72-50031).....	*	620 (COM73-50584).....	*
(AD702-833).....	*			621 (SN003-003-01055-3).....	1.10
(PB191-024).....	*	594-1 (COM72-50674).....	*		
(PB191-057).....	*	594-2 (COM72-51003).....	*	622 (COM72-51039).....	*
(PB191-277).....	*	594-3 (COM75-10183).....	*	623 (COM72-51040).....	*
	1.10	594-4 (COM73-50224).....	*	624 (COM72-51041).....	*
(AD710-906).....	*	594-5 (SN003-003-00159-7).....	.55	625 (COM72-51081).....	*
(PB191-305).....	*	594-6 (SN003-003-01253-0).....	.95	626 (COM73-50038).....	*
(PB192-153).....	*			627 (SN003-003-01108-8).....	1.00
(COM71-00047).....	*	594-7 (SN003-003-01244-1).....	.75	628 (COM73-50263).....	*
(SN003-003-00776-5).....	.75	594-8 (COM74-50536).....	*	629 (COM73-50100).....	*
(PB192-875).....	*			631 (COM75-10334).....	*
(PB192-877).....	*	594-9 (SN003-003-01342-1).....	1.10	632 (COM73-50238).....	*
(PB193-794).....	*	594-10 (SN003-003-01453-2).....	.85	633 (COM73-50239).....	*
(PB192-953).....	*	594-11 (SN003-003-01675-6).....	1.15	634 (COM73-50339).....	*
(COM71-00081).....	*	594-12 (SN003-003-01676-4).....	.75	635 (COM75-10177).....	*
(PB194-960).....	*	594-13 (SN003-003-01709-4).....	1.40	637 (COM75-10082).....	*
(COM71-00082).....	*	595 (COM71-50362).....	*	638 (COM73-50727).....	*
(COM71-00068).....	*	596 (SN003-003-00904-1).....	1.05	640 (COM73-50805).....	*
(COM71-50076).....	*			641 (COM75-10281).....	*
(SN003-003-00918-1).....	3.25	597 (COM75-10176).....	*	642 (COM73-50973).....	*
(PB194-750).....	*	598 (AD732-553).....	*	643 (COM73-50885).....	*
(AD718-534).....	*	599 (COM71-50399).....	*	644 (COM73-50972).....	*
(COM74-10405).....	*	600 (COM71-50297).....	*	645 (COM74-50133).....	*
(COM71-50072).....	*	602 (SN003-003-00880-0).....	.55	646 (COM74-50842).....	*
(AD719-976).....	*			648 (SN003-003-01246-7).....	1.25
(COM71-00128).....	*			649 (COM74-50308).....	*
(COM71-50341).....	*				
(COM71-50062).....	*				
(AD728-642).....	*				

\*Available from the National Technical Information Service, use "PB", "AD", "COM", "N", or NBS publication identification if no specific NTIS number is assigned. Available in Microfiche for .00; consult NTIS for paper copy price.

# TECHNICAL NOTES (Continued)

No.	Price	No.	Price	No.	Price
650 (COM74-50430) .....	*	683 (SN003-003-01657-8) .....	1.00	718 (COM73-50206) .....	*
651 (SN003-003-01280-7) .....	.50	684 (SN003-003-01732-9) .....	3.85	720 (SN003-003-00989-0) .....	*
652 (SN003-003-01299-8) .....	.50	685 (SN003-003-01789-2) .....	.65	721 (COM72-50467) .....	*
653 (COM74-50637) .....	*	686 (PB260-666) .....	*	723 (COM72-50535) .....	*
654 (COM74-50698) .....	*	687 (SN003-003-01714-1) .....	.75	724 See TN983 .....	*
655 (COM74-51542) .....	*	688 (SN003-003-01715-9) .....	.65	725 (SN003-003-01003-1) .....	*
657 (COM75-50069) .....	*	689 (PB263-104) .....	*	726 (AD748-788) .....	*
658 (COM75-50161) .....	*	690 (PB262-551) .....	*	727 (COM72-50538) .....	*
659 (SN003-003-01442-7) .....	.85	691 (PB263-103) .....	*	728 (COM72-50666) .....	*
660 (SN003-003-01383-8) .....	1.00	692 (SN003-003-01734-5) .....	.55	729 (COM72-50667) .....	*
661 (SN003-003-01350-1) .....	.80	693 (SN003-003-01710-8) .....	1.20	731 (SN003-003-01023-5) .....	*
662 (SN003-003-01413-3) .....	.70	695 (SN003-003-01781-7) .....	2.80	732 (SN003-003-01029-4) .....	*
663 (SN003-003-01405-2) .....	1.10	696 Rev. 1977 (SN003-003-01850-3) .....	1.50	733 (COM72-50812) .....	*
664 (COM75-10289) .....	*	697 (SN003-003-01862-7) .....	2.20	734 (COM72-50732) .....	*
665 (SN003-003-01403-6) .....	1.00	698 (SN003-003-01864-3) .....	1.30	735 (COM72-50873) .....	*
666 (COM75-10288) .....	*	699 (SN003-003-01865-1) .....	2.75	736 (COM72-50924) .....	*
667 (SN003-003-01560-1) .....	1.85	700 (COM73-50015) .....	*	737 (COM75-10170) .....	*
668 (SN003-003-01449-4) .....	1.05	702 (AD734-427) .....	*	738 (COM72-50810) .....	*
669 (COM75-10918) .....	*	703 (COM71-50607) .....	*	747 (SN003-003-01065-1) .....	1.2
670 (SN003-003-01586-2) .....	1.60	706 (COM72-50892) .....	*	748 (COM73-50209) .....	*
672 (SN003-003-01550-4) .....	2.40	707 (COM72-50054) .....	*	749 (COM73-50103) .....	*
673 (PB246-934) .....	*	708 (COM72-50062) .....	*	750 (COM72-51080) .....	*
674 (SN003-003-01559-8) .....	1.50	710-1 (COM72-50276) .....	*	751 (SN003-003-01093-6) .....	*
675 (SN003-003-01596-2) .....	1.30	710-2 (COM72-50346) .....	*	752 (COM73-50624) .....	*
677 (SN003-003-01597-1) .....	1.20	710-3 (COM72-50520) .....	*	753 (SN003-003-01097-9) .....	1.2
680 (SN003-003-01616-1) .....	.50	710-4 (COM72-50521) .....	*	754 (COM73-50225) .....	*
681 (SN003-003-01652-7) .....	1.05	710-5 (COM72-50694) .....	*	755 (SN003-003-01094-4) .....	*
682 (SN003-003-01653-5) .....	.80	710-6 (SN003-003-01087-1) .....	1.00	756 (COM73-50257) .....	*
		710-7 (COM73-50483) .....	*	757 (SN003-003-01092-8) .....	4.2
		711 (COM72-50064) .....	*	758 (SN003-003-01115-1) .....	2.1
		713 (COM72-50204) .....	*	759 (SN003-003-01102-9) .....	*
		714 (SN003-003-00974-1) .....	1.50	760 (SN003-003-01112-6) .....	*
		716 (COM72-50361) .....	*	761 (SN003-003-01132-1) .....	1.2
		717 (AD740-674) .....	*		

\*Available from the National Technical Information Service, use "PB", "AD", "COM", "N", or NTIS publication identification if no specific NTIS number is assigned. Available in Microfiche for \$3.00; consult NTIS for paper copy price.



# TECHNICAL NOTES (Continued)

	Price	No.	Price	No.	Price
(SN003-003-01114-2) .....	.65	797 (SN003-003-01192-4) .....	.50	829 (SN003-003-01301-3) .....	1.10
(SN003-003-01131-2) .....	.65	798 (COM73-50930) .....	*	830 (COM74-50532) .....	*
(SN003-003-01135-5) .....	.60	799 (COM74-50135) .....	*	831 (SN003-003-01291-2) .....	.95
(COM73-50374) .....	*	800 (COM74-50141) .....	*	832 (SN003-003-01327-7) .....	.70
(AD758-981) .....	*	801 (SN003-003-01292-1) .....	.60	833 (SN003-003-01302-1) .....	1.20
(COM73-50379) .....	*	802 (SN003-003-01217-3) .....	.60	834 (SN003-003-01294-7) .....	.55
(COM73-50677) .....	*	803 (COM75-10279) .....	*	835 (SN003-003-01353-6) .....	1.95
(SN003-003-01136-3) .....	1.40	804 (SN003-003-01229-7) .....	2.00	836 (COM74-50567) .....	*
(SN003-003-01137-1) .....	.95	805 (SN003-003-01231-9) .....	1.20	837 (COM74-50636) .....	*
(SN003-003-01140-1) .....	1.25	806 (COM73-50928) .....	*	838 (COM74-50841) .....	*
(COM73-50534) .....	*	807 (COM73-50971) .....	*	839 (SN003-003-01303-0) .....	1.85
(COM73-50535) .....	*	808 (COM74-50085) .....	*	840 (SN003-003-01315-3) .....	.55
(SN003-003-01141-0) .....	.50	809 (COM74-50174) .....	*	841 (SN003-003-01312-9) .....	.60
(AD760-676) .....	*	810 (SN003-003-01211-4) .....	.50	842 (SN003-003-01310-2) .....	1.25
(COM73-50792) .....	*	811 (SN003-003-01245-9) .....	1.00	843 (COM74-50839) .....	*
(COM73-50523) .....	*	812 (SN003-003-01247-5) .....	.65	844 (SN003-003-01316-1) .....	.70
(COM73-50571) .....	*	814 (SN003-003-01235-1) .....	1.10	845 (COM74-50926) .....	*
(SN003-003-01158-4) .....	.55	815 (SN003-003-01232-7) .....	.60	847 (SN003-003-01340-4) .....	.80
(COM73-50536) .....	*	816 (COM74-50181) .....	*	848 (COM74-50943) .....	*
(SN003-003-01286-6) .....	.90	817 (SN003-003-01265-3) .....	.60	849 (COM74-50998) .....	*
(COM73-50682) .....	*	818 (SN003-003-01238-6) .....	.80	850 (SN003-003-01366-8) .....	.85
(SN003-003-01194-1) .....	.50	819 (COM74-50279) .....	*	851 (COM74-51065) .....	*
(SN003-003-01161-4) .....	.90	820 (COM74-50140) .....	*	852 (COM74-51085) .....	*
(COM73-50683) .....	*	821 (SN003-003-01257-2) .....	.60	853 (SN003-003-01330-7) .....	.85
(SN003-003-01163-1) .....	2.35	822 (COM74-50340) .....	*	854 (SN003-003-01381-1) .....	2.00
1 (SN003-003-01439-7) .....	.80	823 (SN003-003-01264-5) .....	.60	855 (SN003-003-01367-6) .....	1.05
(COM73-50678) .....	*	824 (SN003-003-01258-1) .....	.65	856 (SN003-003-01371-4) .....	.65
(COM73-50665) .....	*	825 See TN983 .....	*	857 (SN003-003-01423-1) .....	1.05
(SN003-003-01183-5) .....	.80	826 (COM74-50346) .....	*	858 (SN003-003-01433-8) .....	3.75
(COM73-50831) .....	*	827 (COM74-50457) .....	*		
(COM73-50927) .....	*	828 (SN003-003-01287-4) .....	2.05		
(COM73-50876) .....	*				

Available from the National Technical Information Service, use "PB", "AD", "COM", "N", or NBS identification if no specific NTIS number is assigned. Available in Microfiche for \$0.00; consult NTIS for paper copy price.

# TECHNICAL NOTES—(Continued)

No.	Price	No.	Price	No.	P
859 (SN003-03-01543-1) .....	4.15	884 (SN003-003-01471-1) .....	.45	910-1 (SN003-003-01590-3) .....	
860 (SN003-003-01401-0) .....	2.05	885 (SN003-003-01476-1) .....	1.45	910-3 (SN003-003-01785-0) .....	
861 (SN003-003-01380-3) .....	.80	886 (SN003-003-01470-2) .....	.65	912 (SN003-003-01613-6) .....	
862 (SN003-003-01402-8) .....	.80	887 (SN003-003-01545-8) .....	1.45	913 (SN003-003-01645-4) .....	
863 (SN003-003-01404-4) .....	1.15	888 (SN003-003-01482-6) .....	1.65	914 (SN003-003-01636-5) .....	
864 (SN003-003-01400-1) .....	1.20	889 (SN003-003-01574-1) .....	1.80	915 (SN003-003-01631-4) .....	
865 (SN003-003-01411-7) .....	1.35	890 (SN003-003-01548-2) .....	1.10	916 (SN003-003-01626-8) .....	
866 (SN003-003-01441-9) .....	1.85	891 (SN003-003-02186-5) .....	1.10	917 (SN003-003-01640-3) .....	
867 (SN003-003-01427-3) .....	1.25	892 (SN003-003-01549-1) .....	1.70	918 (SN003-003-01661-6) .....	
868 (SN003-003-01430-3) .....	1.50	893 (SN003-003-01561-0) .....	1.30	919 (SN003-003-01658-6) .....	
869 (SN003-003-01424-9) .....	.80	894 (SN003-003-01570-9) .....	1.45	920 (SN003-003-01648-9) .....	
870 (SN003-003-01434-6) .....	1.05	895 (SN003-003-01564-4) .....	2.30	921 (SN003-003-01660-8) .....	
871 (SN003-003-01435-4) .....	.140	896 (SN003-003-01562-8) .....	2.15	922 (SN003-003-01668-3) .....	
872 (SN003-003-01436-2) .....	2.10	897 (SN003-003-01589-0) .....	1.15	923 (SN003-003-01679-9) .....	
873 (SN003-003-01555-5) .....	.75	898 (SN003-003-01584-9) .....	.55	924 (SN003-003-01671-3) .....	
874 (SN003-003-01438-9) .....	1.00	899 (SN003-003-01579-2) .....	4.00	925 (SN003-003-01680-2) .....	
875 (SN003-003-01448-6) .....	.65	900 (SN003-003-01611-0) .....	.75	927 (SN003-003-01683-7) .....	
876 (COM75-11113) .....	*	901 (SN003-003-01607-1) .....	1.15	928 (SN003-003-01711-6) .....	
877 (SN003-003-01455-9) .....	.80	902 (SN003-003-01598-9) .....	2.70	929 (SN003-003-01694-2) .....	
878 (SN003-003-01440-1) .....	.65	903 (SN003-003-01578-4) .....	.85	930 (SN003-003-01672-1) .....	
879 (SN003-003-01432-0) .....	1.10	904 (SN003-003-01617-9) .....	.75	931 (SN003-003-01689-6) .....	
880 (SN003-003-01447-8) .....	.85	905 (SN003-003-01610-1) .....	1.10	932 (SN003-003-01703-5) .....	
881 (SN003-003-01469-9) .....	1.10	906 (SN003-003-01630-6) .....	1.35		
882 (SN003-003-01462-1) .....	.85	908 (SN003-003-01643-8) .....	1.55		
883 (SN003-003-01475-3) .....	1.45	909 (SN003-003-01615-2) .....	1.05		

\*Available from the National Technical Information Service; use "AD," or "COM" number when ordering. Available in Microfiche for \$3.00; consult NTIS for paper copy price.

# NBS INTERAGENCY REPORTS

These reports are available by purchase from National Technical Information Service, Springfield, VA 22161. Those items in boldface are the publications cited in this supplement. Prices are those in effect as of the date this edition went to press. When ordering, use the

"AD", "PB", "N" or "COM" number. The prices quoted are for paper copy domestic, add \$2.25 additional for foreign mailing. Microfiche are available for \$2.25 per set. Prices are subject to change without notice.

	Price	No.	Price
1 (COM73-10867) .....	A05	73-173 (COM73-10844) .....	A03
2 (COM73-10856) .....	A04	73-175 (COM74-10395) .....	A04
5 (COM73-10858) .....	A03		
		73-177 (COM75-10336) .....	A03
		73-180 (COM74-10130) .....	A03
		73-182 (COM73-11284) .....	A05
0 (COM73-11191) .....	A07	73-183 (COM73-11177) .....	A04
2 (COM74-10702-03) .....	A04	73-184 (COM73-11110) .....	A05
3 (COM74-10702-01) .....	A13		
4 (COM74-10702-02) .....	A13	73-185 (COM73-11287) .....	A03
		73-187 (PB221-188) .....	A04
16 (COM73-10859) .....	A04	73-188 (PB221-183) .....	A05
9 (AD757789) .....	A04	73-189 (COM73-11173) .....	A03
1 (COM73-10860) .....	A06	73-190 (COM73-10831) .....	A02
5 (COM73-11189) .....	A04		
6 (COM73-10854) .....	A06	73-191 (PB221-695) .....	A02
		73-192 (COM73-10832) .....	A02
7 (COM73-10857) .....	A05		
8 (AD760150) .....	A04	73-197 (COM74-10468) .....	A04
9 (COM73-10853) .....	A05	73-198 (COM74-11289) .....	A02
1 (COM73-10863) .....	A04		
2 (PB222300) .....	A07	73-199 (COM74-10129) .....	A06
		73-200 (COM74-10478) .....	A03
5 (COM73-10840) .....	A03	73-201 (COM73-11221) .....	A05
		73-202 (COM74-10479) .....	A03
8 (COM73-10868) .....	A03	73-203 (See NBSIR 74-430	
0 (COM73-10842) .....	A02	COM74-10724) .....	A06
1 (COM73-10841) .....	A03		
		73-206 (COM73-11262) .....	A06
4 (PB220-849) .....	A07	73-207 (AD769-266) .....	A07
5 (COM75-10541) .....	A03	73-208 (COM74-10127) .....	A03
6 (COM73-10989) .....	A04	73-209 (COM74-10469) .....	A11
48 (COM73-10855) .....	A05	73-210 (COM74-11767) .....	A10
1 (COM73-10866) .....	A02		
		73-211 (COM74-10950) .....	A08
2 (AD914258) .....	A07	73-212 (COM74-11009) .....	A07
		73-213 (COM74-11771) .....	A07
4 (COM73-10865) .....	A02	73-214 (COM74-11239) .....	A06
6 (COM73-11286) .....	A04	73-215 (COM74-11010) .....	A06
7 (COM74-10394) .....	A03		
		73-216 (COM74-11011) .....	A07
9 (COM73-11174) .....	A02	73-217 (COM74-10470) .....	A03
		73-218 (COM75-10144) .....	A03
11 (PB225310) .....	A04	73-220 (PB222-437) .....	A02
13 (COM74-10542) .....	A06	73-221 (COM73-11113) .....	A05
14 (COM73-10834) .....	A03		
		73-223 (COM73-11220) .....	A05
15 (COM73-10837) .....	A02	73-228 (PB222-425) .....	A02
16 (COM73-10835) .....	A02	73-231 (PB224-645) .....	A03
17 (COM73-10836) .....	A02		
18 (COM73-10838) .....	A03	73-233 (COM74-11770) .....	A04
19 (COM73-10839) .....	A02		
		73-234 (COM74-10128) .....	A03
20 (COM73-10843) .....	A03	73-240 (COM74-10986) .....	A03
22 (COM73-11175) .....	A05	73-242 (PB224-654) .....	A03

# NBS INTERAGENCY REPORTS—(Continued)

No.	Price	No.	F
73-244 (AD-A003-900) .....	A04	73-344 (COM74-10749) .....	
73-246 (COM74-10989) .....	A02	73-345 (COM74-10239) .....	
73-248 (COM74-10474) .....	A05	73-346 (COM74-10240) .....	
73-251 (PB224-688) .....	A03	73-347 (COM74-10674) .....	
73-252 (AD775-082) .....	A12	73-348 (COM74-10241) .....	
73-254 (COM74-10987) .....	A02	73-349 (COM74-11374) .....	
73-256 (COM75-11443) .....	A02	73-351 (COM74-10784) .....	
73-257 (COM75-11444) .....	A02	73-402 (COM74-10472) .....	
73-258 (COM75-11445) .....	A02	73-403 (COM74-10016) .....	
73-259 (COM75-11446) .....	A02	73-404 (PB230-952) .....	
73-260 (COM75-11440) .....	A02	73-405 (COM74-10131) .....	
73-261 (COM75-11441) .....	A02	73-406 (COM74-11352) .....	
73-262 (COM75-10370) .....	A04	73-407 (COM74-11078) .....	
73-263 (PB225-284) .....	A04	73-412 (COM74-10512) .....	
73-264 (PB243-541) .....	A02	73-413 (COM74-10750) .....	
73-265 (COM73-11453) .....	A04	73-414 (COM74-10866) .....	
73-266 (PB225-286) .....	A03	73-415 (COM75-11448) .....	
73-267 (COM73-11955) .....	A04	73-416 (COM74-10511) .....	
73-268 (AD768-303) .....	A03	73-417 (COM74-10477) .....	
73-275 (COM74-10126) .....	A04	73-418 (COM74-11783) .....	
73-277 (PB225-278) .....	A04	73-420 (COM74-11092) .....	
73-280 (AD782-094) .....	A06	73-421 (COM74-11224) .....	
73-281 (AD782-028) .....	A06	73-422 (COM74-11240) .....	
73-287 (COM73-11928) .....	A02	73-423 (COM74-11722) .....	
73-288 (COM73-11861) .....	A04	73-424 (COM74-10867) .....	
73-289 (COM74-10475) .....	A02	74-355 (N74-30195) .....	
73-290 (COM74-10974) .....	A02	74-357 (COM74-10551) .....	
73-294 (AD787-327) .....	A04	74-359 (AD780-596) .....	
73-295 (COM74-10471) .....	A02	74-361 (COM74-11222) .....	
73-297 (AD772-066) .....	A02	74-363 (COM74-11053) .....	
73-299 (PB243-543) .....	A03	74-364 (COM74-11208) .....	
73-301 (COM73-10762) .....	A03	74-365 (COM74-11375) .....	
73-302 (COM73-10869) .....	A05	74-366 (COM74-11076) .....	
73-303 (AD759-374) .....	A04	74-369 (COM74-11688) .....	
73-304 (COM74-10281) .....	A05	74-371 (COM74-11567) .....	
73-308 (COM73-10761) .....	A03	74-372 (ADA006-037) .....	
73-309 (COM73-11981) .....	A05	74-375 (COM74-11657) .....	
73-316 (COM73-11954) .....	A05	74-377 (COM74-11449) .....	
73-318 (N73-27390) .....	A09	74-378 (COM74-11450) .....	
73-320 (COM73-11971) .....	A02	74-379 (PB247-658) .....	
73-322 (COM73-11464) .....	A03	74-380 (COM74-11686) .....	
73-326 (COM73-11465) .....	A02	74-381 (COM75-10522) .....	
73-329 (COM74-10608) .....	A05	74-382 (AD783-433) .....	
73-330 (COM74-10609) .....	A04	74-387 (COM74-11643) .....	
73-331 (COM74-10238) .....	A05	74-388 (COM74-11687) .....	
73-335 (COM74-11051) .....	A05	74-389 (COM74-11717) .....	
73-338 (COM73-11660) .....	A03	74-390 (COM74-11718) .....	
73-339 (COM73-11985) .....	A13	74-391 (COM74-10258) .....	
73-341 (COM74-10885) .....	A03	74-393 (COM75-10768) .....	
73-342 (COM74-11978) .....	A13	74-394 (COM75-10126) .....	
73-343 (COM75-10282) .....	A05	74-395 (COM75-10161) .....	

# NBS INTERAGENCY REPORTS (Continued)

	Price	No.	Price
396 (COM74-11766) .....	A03	74-514 (COM75-10102) .....	A04
398 (COM75-10130) .....	A15	74-515 (COM74-11498) .....	A09
426 (COM74-11074) .....	A06	74-516 (COM74-11384) .....	A04
430 (COM74-10724) .....	A06		
432 (COM74-10751) .....	A04	74-518 (PB239-633) .....	A05
434 (COM74-11079) .....	A02	74-519 (PB238-284) .....	A03
438 (COM74-10980) .....	A03	74-520 (COM74-11480) .....	A07
439 (COM74-10985) .....	A02	74-521 (COM75-10187) .....	A04
442 (AD787-743) .....	A03	74-522 (COM75-10080) .....	A02
443 (COM74-11003) .....	A02	74-523 (COM75-11126) .....	A02
444 (COM74-10548) .....	A03	74-524 (COM74-11568) .....	A03
449 (COM75-10049) .....	A03	74-525 (AD782-564) .....	A02
		74-526 (COM75-10087) .....	A04
		74-527 (COM74-11720) .....	A04
452 (PB204-486) .....	A06	74-529 (COM74-11495) .....	A04
454 (COM74-10988) .....	A02	74-530 (COM75-10041) .....	A03
455 (COM74-10865) .....	A03	74-533 (PB238-573) .....	A06
456 (COM74-11793) .....	A02	74-535 (COM74-11659) .....	A05
457 (COM74-11792) .....	A05	74-537 (COM74-11577) .....	A02
458 (AD776-337) .....	A02		
461 (PB246-623) .....	A03	74-539 (COM74-11574) .....	A05
464 (COM74-10785) .....	A05	74-541 (COM75-10618) .....	A03
465 (COM75-10417) .....	A04	74-542 (COM75-10081) .....	A03
466 (COM74-10700) .....	A21	74-543 (COM74-11772) .....	A07
467 (COM74-11754) .....	A04	74-544 (COM74-11525) .....	A03
		74-545 (COM74-11656) .....	A04
470 (PB232-629) .....	A05	74-550 (COM74-11721) .....	A05
471 (COM74-10981) .....	A02	74-551 (COM74-11658) .....	A06
473 (COM74-11719) .....	A04	74-552 (COM74-11644) .....	A05
474 (AD778-340) .....	A03	74-553 (COM75-10058) .....	A04
477 (COM74-11784) .....	A03	74-554 (COM74-10703) .....	A03
479 (PB239-420) .....	A07	74-555 (COM74-10704) .....	A03
481 (COM74-11794) .....	A04	74-556 (COM74-10703) .....	A05
482 (COM75-10147) .....	A10	74-557 (COM75-11439) .....	A03
485 (AD780-704) .....	A02	74-561 (COM75-10413) .....	A03
486 (AD780-705) .....	A04	74-564 (COM74-11726) .....	A04
487 (COM74-10886) .....	A23	74-567 (COM74-11631) .....	A13
488 (COM75-10088) .....	A06	74-568 (COM74-11578) .....	A04
		74-572 (COM74-11791) .....	A04
495 (COM74-11575) .....	A05	74-577-1 (COM74-11723) .....	A09
496 (COM74-11576) .....	A05	74-577-2 (COM74-11724) .....	A14
497 (COM74-11269) .....	A02	74-578 (COM74-11765) .....	A02
499 (COM74-11378) .....	A03	74-580 (PB248-465) .....	A02
		74-581 (COM75-10127) .....	A03
501 (COM75-10131) .....	A02	74-582 (COM74-11645) .....	A03
506 (COM74-11632) .....	A05	74-583 (AD/A003-900) .....	A05
507 (AD/A0001343) .....	A03	74-586 (COM75-10525) .....	A02
509 (COM74-11377) .....	A02	74-588 (COM75-10040) .....	A03
510 (AD782-793) .....	A03	74-590 (COM75-11434) .....	A02
511 (COM74-11448) .....	A02		



NBS INTERAGENCY REPORTS (Continued)

No.	Price	No.	Pr
74-591 (COM75-10101).....	A02	75-677 (COM75-10516) .....	AC
74-595 (COM75-10057).....	A02	75-678 (PB248-687) .....	AC
74-596 (COM75-10209).....	A03	75-679 (COM75-10419) .....	AC
74-597 (COM75-11069).....	A03	75-680 (COM75-10423) .....	AC
74-600 (AD/A008-935).....	A09	75-682 (COM75-10524) .....	AC
74-602 (COM75-10048).....	A03	75-685 (COM75-10690) .....	AC
74-605 (COM75-10464).....	A03	75-687 (COM75-11137) .....	AC
74-606 (COM75-10340).....	A05	75-688 (COM75-11222) .....	AC
74-608 (COM75-10056).....	A02	75-689 (COM75-11190) .....	AC
74-610 (COM75-10073).....	A03	75-690 (COM75-11207) .....	AC
74-612 (COM75-10414).....	A02	75-691 (COM75-11015) .....	AC
74-613 (COM75-10059).....	A03	75-692 (PB250-385) .....	AC
74-614 (COM75-11013).....	A03	75-693 (COM75-11194) .....	AO
74-618 (COM75-11014).....	A02	75-696 (COM75-10527) .....	AC
74-619 (COM75-10047).....	A02	75-697 (COM75-10920) .....	AO
74-620 (PB246-622).....	A02	75-699 (COM75-11016) .....	AO
74-621 (COM75-10422).....	A03	75-700 (COM75-11280) .....	AO
74-623 (COM75-10210).....	A05	75-701 (COM75-11282) .....	AO
74-624 (COM75-10412).....	A03	75-702 (COM75-11433) .....	AO
74-625 (PB243-547).....	A03	75-703 (COM75-11278) .....	AO
74-626 (COM75-10411).....	A02	75-705 (COM75-11277) .....	AO
74-627 (COM75-10134).....	A02	75-706 (PB248-640) .....	AO
74-628 (COM75-10514).....	A02	75-707 (COM75-11017) .....	AO
74-629 (COM75-11281).....	A03	75-708 (COM75-10817) .....	AO
74-631 (COM75-10208).....	A02	75-710 (COM75-11030) .....	AO
74-632 (PB246-554).....	A05	75-711 (COM75-10689) .....	AO
74-633 (COM75-10691).....	A04	75-712 (COM75-11070) .....	AO
74-634 (COM75-10685).....	A03	75-713 (COM75-11134) .....	AO
74-635 (COM75-10276).....	A04	75-715 (COM75-11208) .....	AO
75-637 (COM75-10055).....	A02	75-716 (COM75-11210) .....	AO
75-639 (AD/A005-410).....	A02	75-718 (COM75-10750) .....	AO
75-641 (COM75-11209).....	A05	75-719 (PB251-410) .....	AO
75-647 (COM75-10418).....	A03	75-721 (PB246-864) .....	AO
75-649 (PB241-237).....	A02	75-722 (PB248-641) .....	AO
75-651 (COM75-11211).....	A05	75-723 (COM75-10753) .....	AO
75-652 (COM75-11399).....	A05	75-729 (PB246-858) .....	AO
75-653 (PB248-097).....	A03	75-730 (AD/A018451) .....	AO
75-654 (COM75-10367).....	A02	75-731 (COM75-11071) .....	AO
75-658 (AD/A007-445).....	A03	75-732 (COM75-11022) .....	AO
75-659 (AD/A008-538).....	A03	75-733 (COM75-11139) .....	AO
75-660 (COM75-10669).....	A03	75-734 (COM75-11212) .....	AO
75-661 (COM75-10763).....	A03	75-735 (PB256-295) .....	AO
75-662 (COM75-10420).....	A02	75-736 (COM75-11018) .....	AO
75-664 (AD/A007-447).....	A03	75-737 (COM75-11472) .....	AO
75-665 (COM75-10421).....	A03	75-738 (COM75-11279) .....	AO
75-666 (COM75-11381).....	A03	75-739 (COM75-11189) .....	AO
75-667 (PB241-267).....	A03	75-740 (COM75-11127) .....	AO
75-672 (COM75-10338).....	A03	75-741 (COM75-11136) .....	AO
75-673 (COM75-10921).....	A03	75-742 (PB248-744) .....	AO
75-675 (COM75-10686).....	A03		



**NBS INTERAGENCY REPORTS (Continued)**

	Price	No.	Price
744 (COM75-11072) .....	A02	75-822 (PB246933) .....	A03
745 (PB347-657) .....	A03	75-823 (PB246658) .....	A05
746 (COM75-11432) .....	A04	75-825 (PB258-913) .....	A04
747 (COM75-11131) .....	A03	75-827 (PB247-938) .....	A02
748 (COM75-11031) .....	A05	75-828 (PB249-041) .....	A09
750 (PB249-934) .....	A03	75-829 (PB248-855) .....	A03
751 (AD-A017-626) .....	A03	76-844 (PB264-300) .....	A04
		75-900 (PB250-859) .....	A03
		75-901 (PB246-860) .....	A03
		75-902 (PB249-539) .....	A03
		75-903 (PB246859) .....	A03
755 (PB248-642) .....	A03		
757 (PB248-914) .....	A03	75-908 (PB247-270) .....	A02
		75-909 (PB246-863) .....	A02
760 (AD/A016-843) .....	A10	75-910 (PB248-646) .....	A06
761 (COM75-11377) .....	A06	75-913 (PB248-911) .....	A03
763 (COM75-11276) .....	A10	75-915 (PB249-775) .....	A02
766 (COM75-11376) .....	A04		
767 (PB246-879) .....	A03	75-916 (AD/A019648) .....	A05
768 (PB247-943) .....	A03	75-917 (PB247-655) .....	A02
769 (PB246-978) .....	A11	75-918 (PB251-412) .....	A05
770 (COM75-11370) .....	A03	75-920 (PB248-913) .....	A03
772 (PB246-861) .....	A04	75-923 (PB250-767) .....	A02
774 (COM75-11364) .....	A04		
		75-924 (PB248-686) .....	A05
775 (PB248-864) .....	A04	75-926 (PB257-467) .....	A06
778 (PB246-435) .....	A04	75-927 (PB255-809) .....	A04
779 (PB249-935) .....	A06	75-929 (PB261-498) .....	A03
781 (AD/A015630) .....	A02	75-930 (PB258-250) .....	A04
782 (PB248-643) .....	A03		
		75-931 (PB261-030) .....	A03
784 (PB246-862) .....	A04	75-932 (PB257-425) .....	A04
785 (PB246-345) .....	A03	75-933 (PB248-983) .....	A04
786 (PB251-411) .....	A04	75-937 (PB265-614) .....	A02
787 (AD/A016-844) .....	A04		
788 (PB250-843) .....	A03		
790 (PB250-848) .....	A16		
791 (PB253-229) .....	A04	75-942 (PB256-644) .....	A04
793 (PB247-538) .....	A04	75-943 (PB258-914) .....	A05
794 (PB247-203) .....	A03	75-944 (PB258-372) .....	A03
795 (PB246-866) .....	A04		
		75-947 (PB258-323) .....	A04
796 (PB247-656) .....	A02		
797 (COM75-11465) .....	A02		
801 (PB252-044) .....	A08		
804 (COM75-10395) .....	A03		
805 (PB252-971) .....	A03	75-950 (PB250-664) .....	A03
806 (COM75-10368) .....	A04	75-951 (PB249-094) .....	A03
807 (COM75-10396) .....	A05	75-952 (PB248-910) .....	A03
809 (COM75-10989) .....	A03	75-953 (PB256-219) .....	A03
810 (COM75-10919) .....	A06	75-954 (PB253-242) .....	A03
812 (AD/A012889) .....	A03		
814 (COM75-11132) .....	A04	75-955 (PB248-685) .....	A08
816 (AD/A001250) .....	A04	75-956 (PB247-654) .....	A02
818 (PB245439) .....	A03	75-957 (PB250-769) .....	A02
819 (PB258554) .....	A06	75-958 (PB248-743) .....	A02
820 (PB246436) .....	A04	75-960 (PB249-774) .....	A04
		75-961 (PB257-466) .....	A11

# NBS INTERAGENCY REPORTS (Continued)

No.	Price	No.	P
75-962 (PB247-639) .....	A02	76-1011 (PB259-641) .....	
75-966 (PB250-768) .....	A02	76-1012 (PB257-197) .....	
75-967 (PB251-413) .....	A02	76-1013 (PB256-130) .....	
75-968 (PB250-845) .....	A03	76-1014 (PB251-414) .....	
75-971 (PB249-776) .....	A03	76-1015 (PB249-530) .....	
75-972 (PB259-630) .....	A05	76-1016 (PB254-177) .....	
75-973 (PB249-255) .....	A04	76-1017 (PB251-917) .....	
75-974 (PB249-777) .....	A06	76-1018 (PB257-779) .....	
75-975 (PB253-113) .....	A03	76-1019 (PB251-944) .....	
75-976 (PB248-986) .....	A03	76-1020 (PB258-256) .....	
75-977 (PB251-220) .....	A03	76-1021 (PB257-101) .....	
76-833 (PB250-846) .....	A03	76-1022 (PB259-628) .....	
76-834 (PB250-666) .....	A03	76-1023 (PB256-191) .....	
76-836 (PB254-459) .....	A03	76-1024 (PB255-876) .....	
76-837 (PB261-709) .....	A07	76-1025 (PB251-753) .....	
76-839 (PB252-013) .....	A08	76-1027 (PB253-243) .....	
76-840 (PB258-324) .....	A03	76-1028 (PB251-415) .....	
76-841 (PB256-319) .....	A03	76-1029 (PB261-199) .....	
76-842 (PB258-331) .....	A02		
76-846 (PB258-327) .....	A03	76-1031 (PB253-932) .....	
76-848 (PB261-996) .....	A14	76-1034 (PB254-460) .....	
		76-1037 (PB253-933) .....	
		76-1038 (PB251-918) .....	
		76-1039 (PB254-047) .....	
76-979 (PB248-992) .....	A02	76-1040 (PB254-178) .....	
76-980 (PB250-849) .....	A10	76-1041 (PB257-086) .....	
76-982 (PB248-699) .....	A15	76-1043 (PB254-347) .....	
76-983 (PB251-213) .....	A03	76-1046 (PB256-476) .....	
76-984 (PB262-020) .....	A07	76-1049 (PB256-600) .....	
76-985 (PB250-755) .....	A04	76-1050 (PB253-111) .....	
76-986 (PB250-858) .....	A04		
76-987 (PB250-857) .....	A03	76-1052 (PB258-118) .....	
76-988 (PB254-469) .....	A05	76-1054 (PB253-110) .....	
76-990 (PB251-769) .....	A02	76-1056 (PB254-179) .....	
76-991 (AD/A021255) .....	A02	76-1058 (PB262-097) .....	
76-992 (AD/A021295) .....	A04	76-1059 (PB257-086) .....	
76-993 (PB253-227) .....	A03	76-1060 (PB253-934) .....	
		76-1061 (PB256-328) .....	
76-996 (PB251-998) .....	A03	76-1063 (PB257-102) .....	
76-997 (PB254-298) .....	A05	76-1064 (PB257-102) .....	
76-998 (PB253-228) .....	A03	76-1066 (PB254-473) .....	
		76-1067 (PB257-195) .....	
76-1000 (PB251-219) .....	A04	76-1069 (PB256-296) .....	
76-1002 (PB257-469) .....	A04	76-1070 (PB260-913) .....	
76-1003 (PB251-211) .....	A02	76-1072 (PB255-446) .....	
		76-1074 (PB261-497) .....	
76-1007 (PB252-021) .....	A04		
76-1008 (PB251-218) .....	A03	76-1076 (PB254-180) .....	
76-1010 (PB250-654) .....	A03		

NBS INTERAGENCY REPORTS (Continued)

	Price	No.	Price
081 (PB256-329) .....	A05		
082 (PB258-235) .....	A08		
083 (PB255-803) .....	A06		
084 (PB257-180) .....	A03		
087 (PB257-202) .....	A03		
		76-1153 (PB259-638) .....	A02
		76-1154 (PB260-400) ..... Vol. 1 .....	A09
		76-1154 (PB260-401) ..... Vol. 2 .....	A07
089 (PB254-475) .....	A10		
090 (PB255-505) .....	A03	76-1159 (PB261-994) .....	A03
091 (PB257-768) .....	A03	76-1162 (PB260-879) .....	A04
1093 (PB256-318) .....	A02	76-1172 (PB261-217) .....	A03
		76-1176 (PB261-995) .....	A03
1095 (PB255-808) .....	A05	76-1178 (PB262-114) .....	A06
1096 (PB257-076) .....	A04		
1097 (PB257-141) .....	A03		
1098 (PB259-523) .....	A03		
1099 (PB258-612) .....	A06		
1100 (PB258-371) .....	A04		
1102 (PB257-729) .....	A08		
1107 (PB258-322) .....	A04		
1109 (PB257-194) .....	A04		
1110 (PB257-073) .....	A03		
1112 (PB259-636) .....	A03		
1115 (PB257-196) .....	A02		
1120 (PB257-837) .....	A02		
1124 (PB261-846) .....	A05		
1126 (PB260-878) .....	A04		
1130 (PB257-347) .....	A09		
1131 (PB259-242) .....	A03		
1132 (PB260-363) .....	A05		
1133 (PB261-228) .....	A08		
1136 (PB261-965) .....	A04		
1137 (PB257-770) .....	A05		
1138 (PB259-522) .....	A04		
1140 (PB259-626) .....	A19		
1141 (AD/A031530) .....	A03		
1142 (PB263-099) .....	A02		
1143 (PB257-769) .....	A03		
1144 (PB259-243) .....	A02		
1147 (PB259-637) .....	A03		

# GRANTEE/CONTRACTOR REPORTS

No.		Price	No.		Pr
73-1	(PB192-365) .....	A03	75-48	(PB248-781) .....	AC
73-2	(PB194-614) .....	A05	75-50	(PB247-939) .....	AC
73-3	(COM71-00605) .....	A10	75-51	(PB247-483) .....	A1
73-4	(COM73-10353) .....	A04	76-54	(PB251-682) .....	AC
73-5	(COM73-10951) .....	A08	76-55	(PB250-571) .....	AC
73-6	(COM73-10959) .....	A04	76-56	(PB250-572) .....	AC
73-7	(COM73-10958) .....	A04	76-57	(PB250-573) .....	AC
73-8	(COM73-10954) .....	A10	76-58	(PB256-291) .....	AC
73-9	(COM73-10953) .....	A03	76-59	(PB256-639) .....	A1
73-10	(COM73-10952) .....	A08	76-60	(PB253-588) .....	AC
73-11	(PB242-597) .....	A12	76-61	(PB253-553) .....	AC
73-12	(COM73-10955) .....	A06	76-63	(PB256-440) .....	AC
73-13	(COM73-10957) .....	A05	76-64	(PB255-445) .....	AC
73-14	(COM73-10950) .....	A04	76-69	(PB254-276) .....	AC
73-15	(PB242-582) .....	A15	76-70	(PB254-748) .....	AC
73-16	(COM73-11265) .....	A04	76-71	(PB254-751) .....	AC
73-17	(COM74-10932) .....	A07	76-72	(PB256-190) .....	AC
73-18	(COM73-11783) .....	A03	76-73	(PB257-424) .....	AC
73-19	(COM74-10481) .....	A04	76-74	(PB256-771) .....	AC
73-21	(COM74-10722) .....	A07	76-75	(PB261-201) .....	AC
74-22	(COM74-10934) .....	A16	76-76	(PB261-200) .....	AC
74-23	(COM74-10929) .....	A02	76-79	(PB259-127) .....	AC
74-24	(COM74-10983) .....	A05			
74-25	(COM74-11075) .....	A07			
74-26	(COM74-11633) .....	A06			
74-27	(COM75-10143) .....	A06			
74-28	(PB176-912) .....	A12			
74-29	(PB176-913) .....	A04			
74-30	(COM74-11732) .....	A03			
74-31	(COM74-11733) .....	A02			
74-32	(COM75-10039) .....	A04			
75-33	(COM75-10133) .....	A11			
75-34	(COM75-10128) .....	A04			
73-35	(COM75-10341) .....	A05			
75-36	(PB261-144) .....	A16			
75-37	(PB261-145) .....	A06			
75-38	(PB261-021) .....	A05			
75-40	(COM75-10696) .....	A03			
75-42	(COM75-10805) .....	A24			
75-43	(AD-16782) .....	A06			
75-44	(COM75-10991) .....	A10			
75-45	(PB257-835) .....	A02			
75-46	(PB247-235) .....	A09			
75-47	(PB247-236) .....	A17			

# EXPERIMENTAL TECHNOLOGY INCENTIVES PROGRAM REPORTS

	Price	No.	Price
01 (COM73-11373) .....	A12	76-16 (PB256-129) .....	A11
02 (COM73-11375) .....	A08	76-17 (PB254-233) .....	A10
03 (COM73-11374) .....	A06		
04 (COM74-10256) .....	A02	76-18 (PB256-642) .....	A03
		76-19 (PB256-643) .....	A03
05 (COM74-10257) .....	A04	76-22 (PB257-884) .....	A20
06 (COM74-10258) .....	A03	76-23 (PB258-991) .....	A03
07 (COM74-10939) Vol. 1 .....	A05	76-24 (PB258-093) .....	A11
07 (COM74-10940) Vol. 2 .....	A14		
01 (COM75-11369) .....	A07		
03 (PB251-266) .....	A04		
04 (PB251-683) .....	A15		
05 (PB253-108) .....	A03		
06 (PB253-918) .....	A09		
08 (PB254-078) .....	A03		
09 (PB252-488) .....	A03		
10 (PB253-260) .....	A03		
11 (PB253-115) .....	A06		
12 (PB254-996) .....	A19		
13 (PB253-475) .....	A03		
14 (PB253-476) .....	A03		
15 (PB253-477) .....	A03		

[illegible]



# M

Correlation; Nitrogen K emission spectrum; Resonance  
diation; X-ray emission; Electron bombardment; Lead  
grystate analyzing crystal; 12738. SP305-4.  
pectrum; Soft-x-ray; Band ferromagnetism; Fe; Magnetic  
anition; 13032. SP305-4.  
project; Alphanumeric symbols; AUTODIN (Automatic  
ical Network); JOSS; Keyboards; NBS-GCR-74-28.  
305-8.  
h number; Reynolds number; Viscous flow; Volumetric  
w; Accuracy; Calibration; Compressible flow; Differential  
ter and effects; Fluid meter; Incompressible flow; Laminar  
w; 9535. SP305-1.  
hinable glass-ceramic; Specific heat; Thermal conductivity;  
yogenics; Dielectric constant; Loss tangent; 15046. SP305-  
hine; Measurements; Standard; Dimensional; Gage; Instru-  
ent; Laser; Length; NBSIR 75-926. SP305-8.  
hine component failure; Mechanical failure; Surface  
ting; Abrasive wear; Adhesive wear; Gear failure; SP423,  
55-66 (Apr. 1976). SP305-8.  
hine cusp; Scattered light; Surface figure; Blur circle; Cir-  
lar diffraction grating; Diamond-turned mirrors; Diffraction  
tern; SP435, pp. 57-65 (Apr. 1976). SP305-8.  
hine independent; OMNITAB II; Overlay; Segmentation;  
stem parameters; Transportable computer programs; ANSI  
DRTRAN; Double precision; General-purpose computer  
ogram; Implementation of OMNITAB II; Labeled common;  
N550. SP305-2.  
hine independent; OMNITAB II operating system subpro-  
ams; OMNITAB II source listing; Programming techniques;  
ansportable; User-oriented computing system; Accuracy;  
gorithms; ANSI FORTRAN; Documentation; Error  
ecking; SP339. SP305-3.  
hine language; Minicomputer software; Surface texture  
easurement; Amplitude density function; Arithmetic  
erage; Autocorrelation function; Linear least-squares fit;  
BSIR 75-924. SP305-8.  
hine translation; Mechanical translation; Glossary storage;  
1774. SP305-1.  
hine-aided design; Memory allocation; Microforms; Multi-  
e-access systems; On-line systems; Output modes;  
otocomposition and typesetting; Storage hierarchies; Time  
aring; Computer-assisted-instruction; Information display;  
onogr. 113, Volume 2. SP305-2.  
hined mirrors; ZnSe; A/R coatings; Damage thresholds;  
2414, pp. 53-58. SP305-6.  
hined optics; Nondistortion part support; Position errors;  
uality and compatible part material; Quality diamond tools;  
ntrolled environment; Diamond machining; SP435, pp. 75-  
9 (Apr. 1976). SP305-8.  
hinery noise; Noise; Sound; Sound power; Acoustics;  
5217. SP305-7.  
hining; Machining costs; Methods of machining and finish-  
g; Surface-dependent properties; Surface finishing; SP348,  
p. 1-3. SP305-4.  
hining; Magnetic properties; Mechanical properties; Optical  
roperties; Residual stress; Ceramics; Cracks; Dislocations;  
lectrical properties; Electro-optical; Ferrite; SP348, pp.  
43-352. SP305-4.  
hining; Mechanical behavior; Adsorption; Ceramics;  
rilling; Environmental effects; Fracture; Glasses; SP348, pp.  
41-153. SP305-4.  
hining; Polishing; Residual stresses; Stock removal; Surface  
alysis; Theory of grinding; Abrasive; Ceramics; Diamond;  
rature; Grinding; Grinding forces; Grinding temperatures;  
P348, pp. 5-35. SP305-4.

Machining and grinding technical ceramics; Material removal  
rate; Specific energy; Wheel structure; Abrasive machining;  
Brittle chip formation; Brittle fracture; Chip accommodation;  
Glass; Glass-ceramics; SP348, pp. 53-57. SP305-4.  
Machining costs; Methods of machining and finishing; Surface-  
dependent properties; Surface finishing; Machining; SP348,  
pp. 1-3. SP305-4.  
Machining damage; Plastic deformation; Polycrystalline alu-  
mina; Strength; Surface features; Thermal expansion  
anisotropy; Fracture surface energy; 14037. SP305-6.  
MACRO coding; MEDLARS; Microfilm; Photocomposition;  
Photon; Programming; Text editing; Character generation;  
Composition language; Computer technology; Computerized  
text processing; Electronic composition; Electronic computer;  
Electronic printing; SP295. SP305-1.  
Macro processor; Minicomputer-based systems; Operating  
systems; Automated computer access; Computer networking;  
15544. SP305-7.  
Macro space; Mastery; Micro space; Redundant cuing; Sensory  
acuity; Sensory deterioration; Spatial sets; User needs; Age  
and perception; Complexity; Home range; Life cycle; Life  
space; Loss continuum; SP361, Vol. 1, pp. 57-62. SP305-4.  
Macroanalytical techniques; Optical emission; X-ray spectro-  
chemical analysis; Microanalytical techniques; Solids mass  
spectrometer; Electron probe microanalyzer; NBS white cast  
iron sample (SRM 1175); Stainless steel powder metallurgy  
compact; M260-12. SP305.  
Macrocracking; Porcelain insulators; Proof testing; Residual  
strain; Acoustic emission; 16069. SP305-8.  
Macromolecules; Optical mixing spectroscopy; Review; Air pol-  
lution; Brillouin spectroscopy; Lasers; Light scattering;  
12361. SP305-3.  
Macromolecules; Separation by flow; Chromatography; Gel fil-  
tration; Gel permeation chromatography; 12003. SP305-3.  
Macros; Minicomputers; Access procedures; Computer net-  
works; 16177. SP305-8.  
Macros; Minicomputers; Protocols; Access procedures; Com-  
mand language; Computer networks; 15541. SP305-7.  
Macros; Minicomputers; Protocols; Teleprocessing; Access  
procedures; Command language; Computer networks; Job  
control language; TN917. SP305-8.  
Macroscopic equations of motion; Macroscopic variable; Non-  
equilibrium kinetic energy; Temperature; Total energy; Bulk  
viscosity; 9313. SP305.  
Macroscopic fluctuations; Thermodynamic force; Entropy;  
10146. SP305-1.  
Macroscopic polarizability; Dielectric polarizability; Dipole mo-  
ment; Fluid parahydrogen; 9248. SP305.  
Macroscopic stages; Mutual influences; *n*-butane; *n*-heptane; O-  
heterocycles; Radio gas chromatographic analysis; Selective  
inhibition; Selectivity; Self-inhibition; Thermal control; 1-bu-  
tene; 2-butene; Concurrent reactions; SP357, pp. 111-117.  
SP305-4.  
Macroscopic variable; Non-equilibrium kinetic energy; Tem-  
perature; Total energy; Bulk viscosity; Macroscopic equations  
of motion; 9313. SP305.  
Macro-segregation; Sampling problems; Trace elements; High-  
temperature alloys; Intergranular segregation; SP422, pp.  
1017-1022 (Aug. 1976). SP305-8.  
Madelung constant; Madelung potential; Metallic single bond  
radii; Refractory transition metal compounds; Tungsten car-  
bide; Valence bonding; Voronoi polyhedra; Aluminum  
diboride—cadmium diiodide structure; Bidirectional orbitals;  
SP364, pp. 515-559. SP305-4.  
Madelung potential; Metallic single bond radii; Refractory  
transition metal compounds; Tungsten carbide; Valence  
bonding; Voronoi polyhedra; Aluminum diboride—cadmium  
diiodide structure; Bidirectional orbitals; Effective charge;  
ESCA; SP364, pp. 515-559. SP305-4.

- Madelung potential;  $Mg^{+}$ ;  $Mg^{2+}$ ;  $MgO$ ; Stark spectrum; Surface excitons; Bulk excitons; Electron loss spectroscopy; Ionic crystals; *SP455*, pp. 59-65 (Nov. 1976). **SP305-8.**
- Magic tee; Microwave measurement methods; Multiple probe devices; Reflectometers; Rotating probe devices; Slotted lines; Survey of automatic techniques; Swept frequency measurements; Wheatstone Bridge; Automatic network analyzers; Computer-controlled measurement; *Monogr. 151*. **SP305-8.**
- Magnesia; Measurement uncertainties; Spectral emittance; Thermal radiation; Thoria; Zirconia; Alumina; Ceramic oxides; Emittance; Error sources; *J.70A5-412, 393-415* (1966). **SP305.**
- Magnesia;  $MgO$ ; Microstructure; Rock; Zirconia; Alumina;  $Al_2O_3$ ; Ceramics; Electron microscopy; Fine-grain ceramic; Ion bombardment; *12083*. **SP305-3.**
- Magnesium; Absolute ratios; Atomic weight; Isotopic abundances; *J.70A6-416, 453-458* (1966). **SP305.**
- Magnesium; Electron excitation; *15728*. **SP305-8.**
- Magnesium; Ferrous SRMs; Stoichiometric mixtures uranium oxide; Isotope ratio determination; Spectrophotometric titration; Controlled potential coulometric; Molybdenum; Homogeneous precipitation; Aluminum; Beryllium; Thermanalytical standards; *TN402*. **SP305.**
- Magnesium; Manganese; Molybdenum; Niobium; Plutonium; Potassium; Praseodymium; Promethium; Rhenium; Rubidium; Sodium; Surface diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; *J. Phys. Chem. Ref. Data 4*, No. 1, 177-250 (1975). **SP305-7.**
- Magnesium; Metabolic processes; Microcalorimetry; Thermchemistry; Thermodynamics; Adenosine 5'-triphosphate; Biochemistry; Coupled equilibrium; Enzyme catalyzed reactions; Glucose; Heat measurement; Hexokinase; *16385*. **SP305-8.**
- Magnesium; Molybdenum; Nickel; Niobium; Platinum; Silver; Tantalum; Tin; Aluminum; Beryllium; Cobalt; Copper; Compilation; Electrical resistivity; Gold; Indium; Iron; Lead; Low temperature; *TN365*. **SP305-1.**
- Magnesium; Natural; Relative; Survey; Isotope ratios; *9629*. **SP305-1.**
- Magnesium; Nitrogen; Oxygen; Potassium; Sodium; Aluminum; Argon; Atomic transition probabilities; Beryllium; Boron; Carbon; Chlorine; Helium; Hydrogen; Lithium; *16164*. **SP305-8.**
- Magnesium; Nonaqueous systems, electrolysis of; Potassium; Sodium; Aluminum; Beryllium; Electrolysis; Liquid ammonia; Lithium; *9598*. **SP305-1.**
- Magnesium; Oscillator strengths; Phosphorus; Potassium; Silicon; Sodium; Sulfur; Transition probabilities; Allowed and forbidden transitions; Aluminum; Argon; Calcium; Chlorine; *NSRDS-NBS22*. **SP305-1.**
- Magnesium; Porcelain enamel; Spall; Adherence; Aluminum; Chromium; Electron microprobe; Electron microscope; Interface; *10647*. **SP305-1.**
- Magnesium; Porcelain enamel on aluminum; Adherence; Aluminum oxide; Conversion chromate coating; Electron microprobe; Electron microscope; *11691*. **SP305-2.**
- Magnesium; Potassium; Serum minerals; Serum storage effects; Sodium; Temperature effects; Trace elements; Zinc; Atomic absorption spectrophotometry; Calcium; Container effects; Copper; *SP422*, pp. 575-591 (Aug. 1976). **SP305-8.**
- Magnesium; Source; Spectra; Ultraviolet; Wavelengths; *13370*. **SP305-5.**
- Magnesium; Source; Spectra; Ultraviolet; Wavelengths; *12962*. **SP305-4.**
- Magnesium;  $\omega_K$ ; Beryllium; Boron; Carbon; Fluorescence yield; Fluorine; *K* shell; *11950*. **SP305-3.**
- Magnesium alloys; Nickel alloys; Steels; Stress corrosion; Stress corrosion failures; Testing techniques; Aluminum alloys; Copper alloys; *9902*. **SP305-1.**
- Magnesium alloys; Orthopedics, metals; Titanium alloys; Alloy; aluminum; Aluminum alloys; *10024*. **SP305-1.**
- Magnesium bismide ( $Mg_3Bi_2$ ); Mechanical behavior; Melting; Metal potential of Heine and Abarenkov; Nickel aluminide Order-disorder; Peierls barriers; Pt-Cu; Silver; tellurium ( $Ag_2Te$ ); Ti-Al; *SP323*, pp. 483-492. **SP305-4.**
- Magnesium compounds; Calcium compounds; Strontium compounds; Barium compounds; Radium compounds; Enthalpy; Entropy; Gibbs energy of formation; Beryllium compounds *TN70-6*. **SP305-3.**
- Magnesium, electrodeposition of; Nonaqueous plating baths; Grignard reagents; Organic plating baths; Triethylboron Beryllium, electrodeposition of; Beryllium azide; Beryllium thiocyanate, decaborane; Dimethyl beryllium; *12304*. **SP305-3.**
- Magnesium fluoride; Point defects; Precipitation; Radiation damage; Dislocation loops; Electron microscopy; *9548*. **SP305-1.**
- Magnesium fluoride; Radiation damage; Color centers; *9587*. **SP305-1.**
- Magnesium fluosilicate hexahydrate; Nuclear magnetic resonance; Relaxation; Internal motion; *12884*. **SP305-4.**
- Magnesium gluconate; Serum magnesium; Standard material; Atomic absorption spectrometry; *14514*. **SP305-6.**
- Magnesium (Mg); Photoabsorption; Sodium (Na); Transmission measurements; Aluminum (Al); Beryllium (Be); Electronic density of states; Electron synchrotron light; *K* spectra; Light metals; Lithium (Li); *L* spectra; *SP323*, pp. 275-277. **SP305-4.**
- Magnesium (Mg); Rigid-band approximation; Soft x-ray emission; Aluminum (Al); Aluminum-magnesium alloys (Al-Mg); Charging effect; Electronic density of states; Emission spectra; *SP323*, pp. 313-317. **SP305-4.**
- Magnesium oxide;  $MgO$ ; Optical properties; Polarized luminescence; Symmetry; Transition metal ions; Chromium 3+ Crystal vacancies; Cubic crystals; Depolarization; Impurity compensation; Luminescence; *16521*. **SP305-8.**
- Magnesium oxide; Molecular structure; Nickel hydride; Adsorption; Catalysis; Copper hydride; *SP455*, pp. 53-58 (Nov. 1976). **SP305-8.**
- Magnesium oxide; Mu sulphur; Reflectance; Reflectometer; Sodium chloride; Barium sulphate; Bidirectional reflectance; Bidirectional reflectometer; Black coating; Gonireflectometer; *J. Res. 80A* No. 2, 189-205 (1976). **SP305-8.**
- Magnesium oxide; Opal glass; Radiant flux; Reflectance standards; Standards calibration; Barium sulfate; Diffuse reflectance spectra; *J. Res. 80A* No. 4, 585-595 (1976). **SP305-8.**
- Magnesium-aluminum alloy phases; Nickel aluminide (NiAl) Soft x-ray emission; Aluminum oxide ( $Al_2O_3$ ); Electronic density of states; Gold aluminide ( $AuAl_3$ ); Knight shift *SP323*, pp. 665-670. **SP305-4.**
- Magnet; Magnetization; Torque; *16546*. **SP305-8.**
- Magnet; Motor; Pump; Rectifier; Solenoid; Superconductivity; Switch; Temperature; Thermometer; Bearings; Bolometer; Electron microscope; Helium; Hydrogen; Level gauging; Liquid level; *9715*. **SP305-1.**
- Magnet fields, erasure with; Magnetic media, computer; Magnetic media, information damage; Permanent magnets; Permanent magnet, erasure with; Shielding; Erasure, magnetic media; Erasure, permanent magnet; Erasure, shielding against; Erasure, signal loss due to; *TN735*. **SP305-4.**
- Magnet standards; Permanent magnet standards; Reference magnets; Calibration, permanent magnet standards; *9245*. **SP305.**
- Magnet wire;  $Nb_3Sn$ ;  $Nb_3Sn$  magnets;  $Nb_3Sn$  multifilamentary wires; Strain; Stress; Superconducting magnets; Critical currents; Magnets; *16474*. **SP305-8.**

gnetic; Magnetic critical points; Cyclotron resonances; Germanium; Joint density of states; Landau levels; *SP323*, pp. 31-435. **SP305-4.**

gnetic; Nucleon potentials; Repulsive core;  $^3\text{He}$ ;  $^3\text{H}$ ; Charge; Form factor; *12056*. **SP305-3.**

gnetic; Orbits; Solenoidal; Electrons; Escape; Faraday; *9998*. **SP305-1.**

gnetic; Permutation group; Quantum mechanics; Antiferromagnetism; Cerous magnesium nitrate; Dipole-dipole interaction; Ferromagnetism; Ground state; *14911*. **SP305-7.**

gnetic; Specific heat; Superparamagnetic particles; Alloys; Clustering; Copper Ni iron; Ferromagnetism; Interactions; *2591*. **SP305-4.**

gnetic; Stable; Transistor; Variable; Current; Generator; *0127*. **SP305-1.**

gnetic; Susceptibilities; Bounds; Dielectric; Inequalities; *1197*. **SP305-2.**

gnetic; Susceptibility; Antiferromagnetism; Critical temperature; Dipole-dipole interaction; Erbium phosphate ground state; Heat capacity; Lattice sums; *15866*. **SP305-8.**

gnetic; Three-dimensional Ising antiferromagnetic; Antiferromagnet;  $\text{DyPO}_4$ ; Exchange interaction; Ising; *11614*. **SP305-2.**

gnetic alloys; Maraging steels; Nickel; Stainless steels; Steels; Alloys; Corrosion-resisting alloys; Copper-nickel alloys; Electroplating; Electrical resistance alloys; Heat resisting alloys; *Monogr. 106*. **SP305-1.**

gnetic and quadrupole split energy levels; Nuclear magnetic resonance; Parametric; Magnetic transitions; *11152*. **SP305-**

gnetic bubble device (MB); Memory storage density; N-channel metal-oxide-semiconductor (N-MOS); Random-access-memory (RAM); Silicon; Cells; Charge-coupled device (CCD); Chevron; Garnet; Large-scale-integration (LSI); Line width; Lithography; *16647*. **SP305-8.**

gnetic components; Magnetic materials; Magnetic measurements; Magnetic standards; IEC; International standards; *2522*. **SP305-4.**

gnetic constants; Molecular electronic structure; Orbital energy; Polarizability; Quadrupole moment; Spectroscopic constants; *Ab initio* electronic calculation; Dipole moment; Dissociation energy; Electron affinity; Energy; Field gradient; *TN438*. **SP305.**

gnetic contrast; Magnetic domain images; Magnetic domains; Monte Carlo electron trajectory calculations; Scanning electron microscope; Iron-silicon transformer steel; *SP460*, pp. 151-164 (Dec. 1976). **SP305-8.**

gnetic contrast; Magnetic domains; Scanning electron microscope; Iron-silicon transformer alloy; *14450*. **SP305-6.**

gnetic contrast; Monte Carlo electron trajectory calculations; Scanning electron microscopy; Contrast calculations; Energy filtering; Low-loss electron image; *SP460*, pp. 139-50 (Dec. 1976). **SP305-8.**

gnetic contrast; Scanning electron microscope; Signal differentiation; Specimen current images; Channelling patterns; Iron; Lunar samples; *14613*. **SP305-6.**

gnetic cooling; Magnetic thermometer; Paramagnetic salt; Temperature scale; Cerous magnesium nitrate; Low temperatures; *10991*. **SP305-2.**

gnetic cooling; Magnetism; Adiabatic demagnetization; Cryogenics; Cryothermometry; *13423*. **SP305-5.**

gnetic core; Permeability techniques; Frequency range; *1196*. **SP305.**

gnetic core; Stray magnetic field; Bridge; Capacitance; Coaxial cable; Ground loop; Inductance; *J72C No. 2, 161-65 (1968)*. **SP305-1.**

gnetic coupling; Superconducting dc transformer; Type II superconducting films; Vortex coupling; Dc transformer; Granular aluminum films; *15361*. **SP305-7.**

Magnetic critical points; Cyclotron resonances; Germanium; Joint density of states; Landau levels; Magnetic; *SP323*, pp. 431-435. **SP305-4.**

Magnetic densimeter; Phase equilibria, carbon disulfide, nitromethane; Water; Binary mixture; Coexistence curve; Critical phenomena; Density; Isobutyric acid; *16480*. **SP305-8.**

Magnetic dipole; Nuclear spin system; Electric field gradients; Electric quadrupole; *11645*. **SP305-2.**

Magnetic dipole interaction; Paramagnetic salt; CMN; Cryomagnetism; Low temperature specific heat; *14834*. **SP305-7.**

Magnetic dipole radiation; Alouette II satellite; Earth's atmosphere; Free radicals; *10312*. **SP305-1.**

Magnetic dipole transitions; Microwave spectroscopy; CN; Double resonance; Excited state; *11300*. **SP305-2.**

Magnetic dipole-dipole coupling; Specific heats; Cesium titanium alum; Critical temperature; Face centered cubic lattice; *12077*. **SP305-3.**

Magnetic disk; Standard Reference Surface; Unrecorded disk surface; Calibration factor; Computer amplitude reference; Computer storage media; Disk calibration; Disk pack; *TN884*. **SP305-7.**

Magnetic disturbance and aurora; Electron loss rate; Electron temperature; F region; Internal excitation; Ion molecule; Ionosphere; *10099*. **SP305-1.**

Magnetic domain contrast; Scanning electron microscope; Voltage contrast; Cathodoluminescence; Electron beam induced conductivity contrast; Electron channeling contrast; *15251*. **SP305-7.**

Magnetic domain images; Magnetic domains; Monte Carlo electron trajectory calculations; Scanning electron microscope; Iron-silicon transformer steel; Magnetic contrast; *SP460*, pp. 151-164 (Dec. 1976). **SP305-8.**

Magnetic domains; Monte Carlo electron trajectory calculations; Scanning electron microscope; Iron-silicon transformer steel; Magnetic contrast; Magnetic domain images; *SP460*, pp. 151-164 (Dec. 1976). **SP305-8.**

Magnetic domains; Monte Carlo methods; Scanning electron microscopy; Transformer steel; Contrast mechanism; Electron backscattering energy filtering; Iron; *13731*. **SP305-5.**

Magnetic domains; Nickel; Scanning electron microscopy; Transformer alloy; Bitter patterns; Contrast mechanisms; *13937*. **SP305-6.**

Magnetic domains; Nickel; Scanning electron microscopy; Contrast measurement; Image contrast; Iron-silicon alloy; *14049*. **SP305-6.**

Magnetic domains; Nickel; Scanning electron microscopy; Contrast measurement; Image contrast; Iron-silicon alloy; *14436*. **SP305-6.**

Magnetic domains; Nickel single crystals; Surface reflection topography; Transmission topography, X-ray diffraction topography; Crystal perfection; Czochralski growth; Domain walls; *16503*. **SP305-8.**

Magnetic domains; Photomicrography; Scanning electron microscope; Strain effects; Iron-silicon alloys; Lorentz force; *15037*. **SP305-7.**

Magnetic domains; Scanning electron microscope; Electron detector; Image contrast; *12346*. **SP305-3.**

Magnetic domains; Scanning electron microscope; Iron-silicon transformer alloy; Magnetic contrast; *14450*. **SP305-6.**

Magnetic domains; Scanning electron microscope; Silicon steel; Transformer steel; Backscattered electrons; Domain walls; *15921*. **SP305-8.**

Magnetic drain plugs; Oil filters; Oil monitors; Particle detectors; Spectrograph; Chip detectors; Ferrograph; Lube oil analysis; *NBS-GCR-74-23*. **SP305-8.**

Magnetic effects; Monte Carlo calculations; Multiple scattering x-ray generation; Particle analysis; Quantitative x-ray

- microanalysis; Thin films; X-ray emission; Electron trajectories; *SP460*, pp. 105-128 (Dec. 1976). **SP305-8.**
- Magnetic energy storage; Magnets; Metallurgy; Aluminum; Cryogenics; *10822*. **SP305-1.**
- Magnetic entropy; Magnetic susceptibility;  $\text{NdCl}_3$  (neodymium trichloride);  $\text{PrCl}_3$  (praseodymium trichloride); Temperature measurement; Heat capacity; *9923*. **SP305-1.**
- Magnetic equator; Observations; Radio frequencies; Starfish; Synchrotron radiation; Decay; Intensity; *10237*. **SP305-1.**
- Magnetic equivalence factoring; Spin-tickling; Transient nutations; 6-deoxy- $\alpha$ -D-glucopyranose derivative; General Overhauser effect; Internuclear double resonance; Long-range coupling; *12693*. **SP305-4.**
- Magnetic equivalence factoring; Spin-tickling; Transient nutations; 6-Deoxy- $\alpha$ -D-glucopyranose derivative; General Overhauser effect; Internuclear double resonance; Long-range coupling; *12272*. **SP305-3.**
- Magnetic evoked response; Magnetoencephalography; *16517*. **SP305-8.**
- Magnetic exchange enhancement; Pt; W; WC; Catalysis; Density of states; *14287*. **SP305-6.**
- Magnetic field; Magnetic null; Null measureable; Remanent field; Saturable ferrite; Detector; *10586*. **SP305-1.**
- Magnetic field; Maxwellian distribution; Scattering; Semiconductor; *12078*. **SP305-3.**
- Magnetic field; Microwave discharge; Photoemission; Tungsten; Ultraviolet photoemission; Adsorption; Chemisorption; CO; Cyclotron resonance; Electron cyclotron resonance; *16016*. **SP305-8.**
- Magnetic field; Microwave losses; Quasiparticle interference current; Josephson tunnel junction; *13168*. **SP305-5.**
- Magnetic field; Mössbauer effect; Spectrometry; Instrumentation; Iron; Low temperature; *11151*. **SP305-2.**
- Magnetic field; Momentum transfer; Negative glow plasma; Hall effect; Helium; *14318*. **SP305-6.**
- Magnetic field; Orion A; Radio astronomy; Sulfur monoxide; Zeeman effect; Dense molecular clouds; *14499*. **SP305-6.**
- Magnetic field; Paramagnetic; Antiferromagnetic; Dipolar interaction;  $\text{DyPO}_4$ ; Low temperature; *12406*. **SP305-4.**
- Magnetic field; Plasma; Cyclotron harmonic radiation; Electron beam; *9985*. **SP305-1.**
- Magnetic field; Plasma; Electron cyclotron frequency; Emission; Harmonic; *10719*. **SP305-1.**
- Magnetic field; Protons; Solenoid; Automated measurement systems; Gyromagnetic ratio; *14929*. **SP305-7.**
- Magnetic field; Solenoid; Toroid; Transformer; Vector potential; *12372*. **SP305-3.**
- Magnetic field; Stoichiometry; Superconductivity; Transition temperature; Annealing; *14235*. **SP305-6.**
- Magnetic field; Superconduction; Thin film; Tin; Vortex model; Electron tunneling; Ginzburg-Landau theory; *9640*. **SP305-1.**
- Magnetic field; Superconductor; Thin film; Ginzburg-Landau theory; *9541*. **SP305-1.**
- Magnetic field; Toroid; Transformer; Vector potential; Leakage flux; *12371*. **SP305-3.**
- Magnetic field stability; NMR; Temperature fluctuation; Closed water system; *9718*. **SP305-1.**
- Magnetic field strength; Man-made noise; Pulse duration distribution; Time statistics; Allan variance analysis; Amplitude probability distribution; Amplitude statistics; Average crossing rate; Electromagnetic interference; Electromagnetic noise; Impulsive noise; *NBSIR 74-378*. **SP305-6.**
- Magnetic field strength; Measurement instrumentation; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; Fast Fourier Transform; *TN654*. **SP305-6.**
- Magnetic field strength; Measurement instrumentation; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; *NBSIR 74-389*. **SP305-6.**
- Magnetic field strength; Measurement instrumentation; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; *NBSIR 74-390*. **SP305-6.**
- Magnetic field strength; Measurement instrumentation; Mine noise; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; *NBSIR 74-391*. **SP305-7.**
- Magnetic fields; Magnetic moment ratio; Nickel Mössbauer spectroscopy; Nuclear hyperfine interactions; Quadrupole splitting; Single line source; Chemical shifts; Electronic configurations; Internal magnetic fields; *11163*. **SP305-2.**
- Magnetic fields; Molten metals; Solute distribution; Thermal convection; Crystal growth; Fused salts; *9513*. **SP305.**
- Magnetic fields; Resonance radiation; Irreducible tensor formalism; *13500*. **SP305-5.**
- Magnetic fields, erasure of data; Magnetic media, data erasure; Magnetic media, data protection; Data loss, magnetic media; Devices, effects on magnetic media; Fields, effects on magnetic media; *16056*. **SP305-8.**
- Magnetic field-strength standard; Mutual inductance of coaxial circular filaments; Near-zone magnetic field; Transmitting loop antenna; Loop-antenna field strength; *J71C4-263*, 319-326 (1967). **SP305.**
- Magnetic flux density; Marginal oscillator; Oscillator, marginal; UHF marginal oscillator; Density, magnetic flux; Flux density; *10035*. **SP305-1.**
- Magnetic hyperfine; Microwave spectrum; Rotational spectra; Transient species;  $\text{BrO}$ ; Free radical; *12669*. **SP305-4.**
- Magnetic hyperfine splitting; Mössbauer spectroscopy; Mössbauer spectrum parameters; Quadrupole splitting; Structural analysis; Chemical shift; *10435*. **SP305-1.**
- Magnetic hyperfine structure; RF transition; Zeeman effect;  $\text{H}_2\text{CO}$ ; *9412*. **SP305.**
- Magnetic impurities; Phase shift; Reformulation of the Anderson model; Adsorbates on metal surfaces; Density of states; Impurity wave function; *14017*. **SP305-6.**
- Magnetic insulators;  $\text{MnF}_2$ ; Phonon frequency shift;  $\text{RbMnF}_3$ ; Acoustic phonons; Antiferromagnet; Attenuation;  $\text{EuO}$ ; Ferromagnet; *11489*. **SP305-2.**
- Magnetic levitation; Power transmission; Cryogenic; High-speed ground transportation; *13039*. **SP305-4.**
- Magnetic materials; Magnetic measurements; Magnetic standards; IEC; International standards; Magnetic components; *12522*. **SP305-4.**
- Magnetic materials; Mössbauer effect; Nuclear magnetic resonance; Nuclear magnetism; Nuclear specific heat; Perturbed angular correlation; *10836*. **SP305-1.**
- Magnetic materials; Neutron diffraction; Rare earths; Amorphous materials; *15388*. **SP305-7.**
- Magnetic materials; Photoelectron spectroscopy; Rare-earth magnets; X-ray photoelectron; Electronic structure; ESCA; Hard magnets; *14231*. **SP305-6.**
- Magnetic measurement methods; Permeability; RF magnetic materials; VHF bridge; VHF magnetic materials; Admittance meter; Attenuation calibration; Lossy magnetic materials; *J72C No. 1, 81-89 (1968)*. **SP305-1.**
- Magnetic measurements; Magnetic standards; IEC; International standards; Magnetic components; Magnetic materials; *12522*. **SP305-4.**



agnetic measurements; Resistance apparatus; Resistors; Standard cells; Voltage transformers; Zener diodes; Ac-dc transfer standards; Capacitors; Current transformers; Dielectric measurements; Electrical calibrations; Electrical measurements; *SP300, Volume 3. SP305-1.*

agnetic media, computer; Magnetic media, information damage; Permanent magnets; Permanent magnet, erasure with; Shielding; Erasure, magnetic media; Erasure, permanent magnet; Erasure, shielding against; Erasure, signal loss due to; Magnet fields, erasure with; *TN735. SP305-4.*

agnetic media, data erasure; Magnetic media, data protection; Data loss, magnetic media; Devices, effects on magnetic media; Fields, effects on magnetic media; Erasure of data; *16056. SP305-8.*

agnetic media, data protection; Data loss, magnetic media; Devices, effects on magnetic media; Fields, effects on magnetic media; Magnetic fields, erasure of data; *16056. SP305-8.*

agnetic media, information damage; Permanent magnets; Permanent magnet, erasure with; Shielding; Erasure, magnetic media; Erasure, permanent magnet; Erasure, shielding against; Erasure, signal loss due to; Magnet fields, erasure with; Magnetic media, computer; *TN735. SP305-4.*

agnetic moment; Magnetic susceptibility; Metamagnet; Optical spectroscopy;  $TbPO_4$ ; Antiferromagnet; Canted antiferromagnet; Heat capacity; *12410. SP305-4.*

agnetic moment; Magnetization; Magnetometer; Vibrating coil; Cryogenic; Demagnetization; Instrumentation; *9825. SP305-1.*

agnetic moment; Mass defect; Nuclides; Quadrupole moment;  $q$ -values; Radiation; Absorption cross section; *13180. SP305-5.*

agnetic moment; Mössbauer effect; Nickel; Copper; Corrosion; D-electron; Iron; *10440. SP305-1.*

agnetic moment; Nuclear magnetic resonance; Chemical shifts; Copper (I) compounds; Copper salts; Knight shift; *14428. SP305-6.*

agnetic moment; Nuclear magnetic resonance; Paramagnetism; Beryllium; Ferromagnetism; Intermetallic compounds; *11481. SP305-2.*

agnetic moment; Nuclear orientation;  $^{82}Br$ ; Beta rays; Gamma rays; Hyperfine interactions; Isotope separator; *12888. SP305-4.*

agnetic moment; Penetration depth; Semiconducting systems;  $SrTiO_3$ ; Superconducting; Transition temperature;  $(Ba_xSr_{1-x})TiO_3$ ;  $(Ca_xSr_{1-x})TiO_3$ ; Critical fields; *10817. SP305-1.*

agnetic moment; Susceptibility; Curie point; Ferromagnetism; *11202. SP305-2.*

agnetic moment anomaly; Nuclear magnetic moments; Nuclear structure baryon resonances; Resonance photoproduction; Exchange currents; *10820. SP305-1.*

agnetic moment ratio; Nickel Mössbauer spectroscopy; Nuclear hyperfine interactions; Quadrupole splitting; Single line source; Chemical shifts; Electronic configurations; Internal magnetic fields; Magnetic fields; *11163. SP305-2.*

agnetic moments; Mesons; Nuclear structure; Baryons; Duality; Exchange currents; *13449. SP305-5.*

agnetic moments; Mössbauer effect; Ni; Alloys; Clustering; Cold work; Cu; Fe; *11838. SP305-3.*

agnetic moments; Molybdenum; Mössbauer effect; Niobium; Alloys; Iron; *14487. SP305-6.*

agnetic moments; Nuclear structure; Photodisintegration; Baryon resonances; Deuteron; Exchange currents; *11717. SP305-2.*

agnetic near-field probe; Near-field measurements; R-f hazard measurements; Semiconducting transmission line; Electric near-field probe; Electromagnetic-field hazard; Field-strength measurements; *TN658. SP305-7.*

Magnetic non-equivalence; Proton magnetic resonance; Spin coupling; Boron; Computer-calculated spectra; Diborane; *10935. SP305-2.*

Magnetic null; Null measureable; Remanent field; Saturable ferrite; Detector; Magnetic field; *10586. SP305-1.*

Magnetic order; Polycrystal; Vitreous  $Gd(PO_3)_3$ ; Antiferromagnetism; Comparison of magnetic properties of glasses and crystals;  $Gd(PO_3)_3$ ; Glass; *14833. SP305-7.*

Magnetic ordering; Nuclear quadrupole resonance; Nuclear resonance; Thermometers; Dilution refrigerator; Low temperature; *11381. SP305-2.*

Magnetic ordering; Reflectivity; Resistivity; Single crystal growth; Color-concentration dependence; Gadolinium monoselenide; Hall effect; Homogeneity range; *SP364, pp. 637-644. SP305-4.*

Magnetic ordering; Transition metal oxides; Electronic transport;  $LaCoO_3$ ; *11809. SP305-3.*

Magnetic permeability; Transport coefficient; Composite material; Dielectric constant; Diffusion constant; Electrical conductivity; Eutectic; Heat conductivity; *10757. SP305-1.*

Magnetic phase diagram; Néel temperature; Spin-flop; Antiferromagnetic transition; Antiferromagnetism; Dipolar interactions;  $ErPO_4$ ; *16436. SP305-8.*

Magnetic pickup; Microelectronic interconnections; Spider bonding; Ultrasonic bonding; Wire bonding; Capacitor microphone; Flip-chip; *TN573. SP305-3.*

Magnetic properties; Magnetic susceptibility; Nuclear quadrupole resonance; Rare-earth trihalides; Spontaneous magnetization; Heat capacity; Linear chain models; Low temperature; *11271. SP305-2.*

Magnetic properties; Materials; Refrigeration; Superconducting magnets; Suspension; Transportation; Urban transportation; Fatigue life; *13954. SP305-6.*

Magnetic properties; Mechanical properties; Optical properties; Residual stress; Ceramics; Cracks; Dislocations; Electrical properties; Electro-optical; Ferrite; Machining; *SP348, pp. 343-352. SP305-4.*

Magnetic properties; Metallic; TCNQ complexes; Electron transport; *13959. SP305-6.*

Magnetic properties; Metals; Commercial alloys; Data sources; Electrical properties; *SP396-4. SP305-8.*

Magnetic properties; Phase equilibria; Phase transitions; Critical data, transition metal oxides; Crystal structure transformations; Electronic properties; *NSRDS-NBS49. SP305-6.*

Magnetic properties; Rare earth; Ternary chalcogenides; Transition metals; Crystal structure; *SP364, pp. 645-650. SP305-4.*

Magnetic properties; Sulfides; Titanium disulfide; Titanium-vanadium disulfides; Vanadium disulfide; Disulfides; Electrical conductivity; *SP364, pp. 663-671. SP305-4.*

Magnetic recording; Psychoacoustic data; Recordings in the field; Tape recording; Acoustic measurements; Calibrated tape recordings; Data acquisition; *TN718. SP305-4.*

Magnetic research; Magnetism; *13654A. SP305-5.*

Magnetic resonance; Anisotropic interactions; Computer calculations; Line shapes; *9717. SP305-1.*

Magnetic resonance; Copper chloride-pyridine-N-oxide; Copper-nickel pairs; Copper-zinc pairs; E.p.r. pair spectra; *10763. SP305-1.*

Magnetic resonance; Line shapes; Lorentzian lines; *12970. SP305-4.*

Magnetic resonance; Masers; NBS-III; NBS-5; NBS/USNO time coordination; Omega; Optical pumping; Precision; Quartz crystal oscillators; Radio T/F dissemination; Rb frequency standards; Satellite T/F dissemination; Short-term stability; SI Units; TAI; *Monogr. 140. SP305-6.*

Magnetic resonance; Molecular dynamics; Neutron scattering; Orientational correlation function; Time correlation function; Infrared absorption; Light scattering; Liquids; *11699. SP305-2.*

Magnetic resonance; Molecular motion; Polyethylene; Rotational potentials; Spin-lattice relaxation; Alkanes; Carbon-13; 14077. **SP305-6.**

Magnetic resonance; Molecular spectroscopy; NO, NO<sub>2</sub>; pollutant detection; Apparatus and methods; Infrared lasers; 16456. **SP305-8.**

Magnetic resonance; OH; Spectroscopy; Astronomical OH emission; H<sub>2</sub>O laser; 11954. **SP305-3.**

Magnetic resonance; Oxygen; Rotational structure; Zeeman; Effect; Laser; 15335. **SP305-7.**

Magnetic resonance; Relaxation times; Rotational diffusion; Spherical-top molecules; Angular relaxation; ClO<sub>2</sub>F; 12195. **SP305-3.**

Magnetic resonance (EPR); Tunable coaxially-coupled microwave cavity; EPR-optical double resonance; Low temperature; 10930. **SP305-2.**

Magnetic resonance spectrum; Resonance spectrum; Rotational frequency; Laser line; Laser magnetic resonance spectrum; 15988. **SP305-8.**

Magnetic retention; Masks; Sputtering; Substrates; Thin films; Evaporation; 15231. **SP305-7.**

Magnetic rotation; Molecular constants; Perturbations; Sodium molecule; Spectroscopy; Alkali dimer; 15516. **SP305-7.**

Magnetic sensing probe; Magnetic tape; Microbridge; Numbering machine; Perfluorostyrene; Shaft position encoder; Staple detector; Superconducting; Synthesis, chemical; Titration; Wind vane; Work positioner; Conductometry; Decoding matrix; TN744. **SP305-4.**

Magnetic solids; Nonlinear least-squares; Phase transitions; Specific heat; Static scaling; Critical exponents; Critical phenomena; Data analysis; *J. Phys. Chem. Ref. Data* 2, No. 1, 11-24 (1973). **SP305-6.**

Magnetic specific heat; Many-body effects; Superconductivity; Alloys; Density of states; Low temperature specific heat; SP323, pp. 557-562. **SP305-4.**

Magnetic specific heat; Many-body effects; Superconductivity; Alloys; Density of states; Low temperature specific heat; *J.74A No. 3*, 449-454 (1970). **SP305-2.**

Magnetic spectra; Optical spectra; Triplet state; Copper chloride-pyridine-*n*-oxide; Exchange coupled; 9854. **SP305-1.**

Magnetic spectrometer; Magneto-optics; Electron scattering; 9200. **SP305.**

Magnetic spins; Magnetic susceptibility; Paired spins; Tungstoheteropoly complexes; CO; Exchange coupling; Fe; Heteropoly complexes; Keggin structures; 13024. **SP305-4.**

Magnetic spins; Magnetic susceptibility; Paired spins; Tungstoheteropoly complexes; Co; Fe; Heteropoly complexes; Keggin structures; 13031. **SP305-4.**

Magnetic standards; IEC; International standards; Magnetic components; Magnetic materials; Magnetic measurements; 12522. **SP305-4.**

Magnetic storage media; Signal amplitude, dropouts; Dropouts, cassette tapes; Dropouts, computer magnetic tapes; Dropouts, instrumentation magnetic tapes; Dropouts, measurement system; TN739. **SP305-4.**

Magnetic structure; Neutron diffraction; Superconductivity; Vanadium alloys; A 15 phases; Atomic ordering; 14574. **SP305-6.**

Magnetic structure; Neutron diffraction; Recrystallization; Terbium-iron; Amorphous alloys; Amorphous magnetism; Coercive magnetic force; 15297. **SP305-7.**

Magnetic structures; Magnetism; Neutron diffraction; Rare earth alloys; Amorphous magnetism; Direct current sputtering; Inelastic neutron scattering; 16555. **SP305-8.**

Magnetic susceptibility; Jahn-Teller effect; 12403. **SP305-4.**

Magnetic susceptibility; Lanthanum chromite; Lanthanum strontium chromite; 14082. **SP305-6.**

Magnetic susceptibility; Magnetic temperature; Thermodynamic temperature; CMN; Entropy; 15634. **SP305-7.**

Magnetic susceptibility; Many-body effects; Optical properties; Photoemission; Soft x-ray; Specific heat; Superconductivity; Transport properties; Tunneling; Band structure; Disordered systems; Electronic density of states; Ion neutralization; SP323. **SP305-4.**

Magnetic susceptibility; Metamagnet; Optical spectroscopy; TbPO<sub>4</sub>; Antiferromagnet; Canted antiferromagnet; Heat capacity; Magnetic moment; 12410. **SP305-4.**

Magnetic susceptibility; Metamagnetism; Optical absorption; Critical phenomena; Diamond lattice; DyPO<sub>4</sub>; Ising system; Low temperature; 12126. **SP305-3.**

Magnetic susceptibility; MFe(OH)<sub>2</sub>EDTA·nH<sub>2</sub>O; Mössbauer spectroscopy; Photodecomposition; Thermogravimetric analysis; Coordination studies; Hydrogen aquoethylenediaminetetraacetatoferrate (III) infrared spectroscopy; 10606. **SP305-1.**

Magnetic susceptibility; Mixed valence; Mössbauer spectra; Optical; Biferrocenylene; Delocalization; Intramolecular exchange; 16049. **SP305-8.**

Magnetic susceptibility; Mössbauer; Biferrocenylene (2,3) picrate; 13921. **SP305-6.**

Magnetic susceptibility; Mössbauer spectroscopy; M<sub>2</sub>FeDTPA; Photodecomposition; Preparation; Thermogravimetric analysis; Coordination; Infrared spectroscopy; 10556. **SP305-1.**

Magnetic susceptibility; Molybdenum; Niobium; Palladium (Pd); Platinum; Rhenium; Rhodium; Rigid band approximation; Tantalum (Ta); Thermal conductivity; Thermoelectric power; Transition metal; Transport properties; SP323, pp. 685-690. **SP305-4.**

Magnetic susceptibility; NdCl<sub>3</sub> (neodymium trichloride); PrCl<sub>3</sub> (praseodymium trichloride); Temperature measurement; Heat capacity; Magnetic entropy; 9923. **SP305-1.**

Magnetic susceptibility; NMR; TMC; Cooperative transition; 12989. **SP305-4.**

Magnetic susceptibility; Nonstoichiometry; Scandium oxide; Crystal growth; F centers; Flame fusion; SP364, pp. 385-395. **SP305-4.**

Magnetic susceptibility; Nuclear quadrupole resonance; Rare-earth trihalides; Spontaneous magnetization; Heat capacity; Linear chain models; Low temperature; Magnetic properties; 11271. **SP305-2.**

Magnetic susceptibility; Omega phase; Rigid-band approximation; Superconducting transition temperatures; Tantalumtungsten (Ta-W); Ti-Mo; Titanium-molybdenum (Ti-Mo) alloy; Tungsten (W); W-Re; Alloys; SP323, pp. 587-596. **SP305-4.**

Magnetic susceptibility; Optical absorption coefficient; Radiation damage; Ruby; Concentration determination; 12348. **SP305-3.**

Magnetic susceptibility; Organic conductors; Paramagnetism; TCNQ compounds; 14350. **SP305-6.**

Magnetic susceptibility; Orientation function; Preferred orientation; Pyrolytic graphite; 14029. **SP305-6.**

Magnetic susceptibility; Paired spins; Tungsto-heteropoly complexes; CO; Exchange coupling; Fe; Heteropoly complexes; Keggin structures; Magnetic spins; 13024. **SP305-4.**

Magnetic susceptibility; Paired spins; Tungsto-heteropoly complexes; Co; Fe; Heteropoly complexes; Keggin structures; Magnetic spins; 13031. **SP305-4.**

Magnetic susceptibility; Paramagnetic relaxation; Paramagnetic resonance; Vanadium tetrachloride; Jahn-Teller distortion; Ligand field; 10758. **SP305-1.**

Magnetic susceptibility; Pauli paramagnetism; Semiconductor; Strontium titanate; Bandstructure; Insulator; 9453. **SP305.**

Magnetic susceptibility; Pyrolytic graphite; Single crystal graphite; Anisotropy; 14038. **SP305-6.**

Magnetic susceptibility; Radiation damage; Ruby; Aluminum oxide; Chromium; Color centers; 13931. **SP305-6.**



agnetic susceptibility; Spin-spin coupling; Copper monochloroacetate 2.5 hydrate; Dichlorobis(pyridine-N-oxide)copper(II); Dichloromonoaquo(pyridine-N-oxide)copper(II); Exchange interactions; J values; 10997. SP305-2.

agnetic susceptibility; Superconductive transition temperature; Superconductivity; Thermometric fixed points; Zinc; Aluminum; Cadmium; Cryogenics; Indium; Lead; SP260-44. SP305-4.

agnetic susceptibility; Superconductivity; Thermometric fixed point; Transition temperature; Carbon resistance thermometry; Electrical resistance; Heat capacity; Indium; 12889. SP305-4.

agnetic susceptibility; Superconductors; Atomic ordering; Intermetallic compounds; 12300. SP305-3.

agnetic susceptibility; Theory of magnetic susceptibility; Co<sup>++</sup> compounds; Crystal fields; 13747. SP305-5.

agnetic susceptibility; Transition temperature; Cerous magnesium nitrate; Curie-Weiss constant; Dipole-dipole interaction (pure); Entropy; Lattice sums; 10264. SP305-1.

agnetic suspension; Materials fatigue data; Refrigeration; Superconducting magnets; Transportation; Levitation; TN635. SP305-5.

agnetic suspension; Materials fatigue data; Refrigeration; Superconducting magnets; Transportation; Levitation; 15182. SP305-7.

agnetic suspension; Methane; Nitrogen; Saturated liquid; Tables; Apparatus; Density; Experimental; 16645. SP305-8.

agnetic suspension; Nitroethane; 3-methylpentane; Coexistence curve; Critical phenomena; Densitometer; 11201. SP305-2.

agnetic suspension densimeter; Normal butane; Saturated liquid; Table; Density; Experimental; 16646. SP305-8.

agnetic tape; Bibliography; Chemical thermodynamics; Extended character codes; Information retrieval; TN760. SP305-5.

agnetic tape; Master standard; Saturation curves; Secondary standard; Signal level calibration; Standard reference materials; Unrecorded reference; Average signal peak level; Computer amplitude reference; SP260-29. SP305-3.

agnetic tape; Master standard; Saturation curves; Secondary standard; Signal level calibration; Standard reference materials; Unrecorded reference; Average peak signal level; Computer amplitude reference; SP260-18. SP305-1.

agnetic tape; Microbridge; Numbering machine; Perfluorostyrene; Shaft position encoder; Staple detector; Superconducting; Synthesis, chemical; Titration; Wind vane; Work positioner; Conductometry; Decoding matrix; Fluoroolefins; Integrator; TN744. SP305-4.

agnetic tape cassette; Secondary standard; Standard reference material; Unrecorded references; Cassette tapes; Cassette transport; Computer amplitude reference; TN731. SP305-4.

agnetic tape recording; Magnetic tapes; Magnetic tape transports; Standards; Communications; Computers; Computer system hardware; Data processing; Data processing equipment; Information systems; FIPS PUB 3-1. SP305-5.

agnetic tape recording; Magnetic tapes; Magnetic tape transports; Standards; Communications; Computers; Computer system hardware; Data processing; Data processing equipment; Information systems; Magnetic tape recording; Magnetic tapes; FIPS PUB 3-1. SP305-5.

agnetic tape transports; Standards; Communications; Computers; Computer system hardware; Data processing; Data processing equipment; Information systems; Magnetic tape recording; Magnetic tapes; FIPS PUB 25. SP305-5.

Magnetic tape utility program; Multiple-precision computing; Multiple-precision programming; PRECISE; Triple-precision; User's manual; Double precision; Elementary functions; Equation solver; Linear equation solver; TN446. SP305-1.

Magnetic tapes; Magnetic tape transports; Standards; Communications; Computers; Computer system hardware; Data processing; Data processing equipment; Information systems; Magnetic tape recording; FIPS PUB 3-1. SP305-5.

Magnetic tapes; Magnetic tape transports; Standards; Communications; Computers; Computer systems hardware; Data processing; Data processing equipment; Information systems; Magnetic tape recording; FIPS PUB 25. SP305-5.

Magnetic temperature; Paramagnetic compounds; Adiabatic magnetization; Cerium compounds; Cerium magnesium nitrate; Low temperature thermometry; 14195. SP305-6.

Magnetic temperature; Temperature scale; Thermometry; Cerous magnesium nitrate; Low temperature; 13578. SP305-5.

Magnetic temperature; Thermodynamic temperature; CMN; Entropy; Magnetic susceptibility; 15634. SP305-7.

Magnetic thermal valve; Mechanical thermal valve; Refrigeration, solid-state; SrTiO<sub>3</sub>; Adiabatic polarization; Cooling technology; Dielectric cooling; Glass-ceramics; 14304. SP305-6.

Magnetic thermometer; Cerous magnesium nitrate; Low temperature scale; 9334. SP305.

Magnetic thermometer; Manganous ammonium sulphate; Paramagnetic salts; Platinum resistance thermometers; Ac-dc resistance thermometry; Ac susceptibility; Gadolinium sulphate; Germanium resistance thermometers; IPTS-68; Low temperature scales, 1-83 K; 15903. SP305-8.

Magnetic thermometer; Paramagnetic salt; Temperature scale; Cerous magnesium nitrate; Low temperatures; Magnetic cooling; 10991. SP305-2.

Magnetic thermometry; "noise" thermometry; Nuclear resonance thermometry; Radiation thermometry; Temperature measurement; Temperature scales; Temperature uncertainties; Thermodynamic temperature scales; Acoustical thermometry; Black-body radiation; 10613. SP305-1.

Magnetic thermometry and adiabatic cooling; Cerous magnesium nitrate; Heat capacity; 14056. SP305-6.

Magnetic torque anisotropy; Samarium iron garnet; Anisotropy of samarium iron garnet; Iron garnet; 10124. SP305-1.

Magnetic transition; M spectrum; Soft-x-ray; Band ferromagnetism; Fe; 13032. SP305-4.

Magnetic transition; Nickel alloys; Poisson's ratio; Pulse-echo method; Sound velocity; Young's modulus; Bulk modulus; Chromium alloys; Compressibility; Debye temperature; Doring effect; Elastic constants; Iron alloys; 15343. SP305-7.

Magnetic transitions; Magnetic and quadrupole split energy levels; Nuclear magnetic resonance; Parametric; 11152. SP305-2.

Magnetic transitions; Model-independent evaluation; Phase shift analysis; Transition radius; Correction factors; Coulomb effects; Electro-excitation; Low momentum transfer; 10910. SP305-2.

Magnetic transitions; Multipoles; Recoupling; Electric transitions; Electromagnetic operators; Electron scattering; TN713. SP305-4.

Magnetically actuated; Perimeter sensor; Switch; Burglar alarm sensor; Burglar alarm system; Door switch; 14361. SP305-6.

Magnetically conjugate regions; Multiple antenna; Absorption measurement; Antennas-multiple; 10245. SP305-1.

Magnetically controllable distortion; Rare-earth; TmAsO<sub>4</sub>; Cooperative distortion; Jahn-Teller distortion; 12657. SP305-4.

Magnetic-field-strength standards; Near-zone electric-field-strength standards; Standard-antenna calibration method; Standard-field calibration method; Calibration of field-

- strength meters; Electric-field-strength standards; 9761. SP305-1.
- Magnetism; Adiabatic demagnetization; Cryogenics; Cryothermometry; Magnetic cooling; 13423. SP305-5.
- Magnetism; Alloys; Copper; Nickel; Iron; Gold; Mössbauer effect; TN463. SP305-1.
- Magnetism; Effective-field theory; Ising interaction; 10703. SP305-1.
- Magnetism; Magnetic research; 13654A. SP305-5.
- Magnetism; Mössbauer; Nickel; Copper; Invar effect; Iron; 11459. SP305-2.
- Magnetism; Mössbauer effect; Nickel; Alloys; Copper; Iron; Local moments; 10612. SP305-1.
- Magnetism; Mössbauer effect; Nickel; Alloys; Copper; Critical temperatures; Iron; 14073. SP305-6.
- Magnetism; Mn; Mössbauer effect; Ni; Sb; Pd; Alloys; Cu; Hyperfine fields; 15016. SP305-7.
- Magnetism; Mo; Mössbauer Effect; Nb; Alloys; 12220. SP305-3.
- Magnetism; Molecular field theory; Short-range order; 9986. SP305-1.
- Magnetism; Molecular field theory; Short-range order; 11083. SP305-2.
- Magnetism; Moments; Mössbauer effect; Ni; Alloys; Cu; Fe; 11490. SP305-2.
- Magnetism; Neutron diffraction; Rare earth alloys; Amorphous magnetism; Direct current sputtering; Inelastic neutron scattering; Magnetic structures; 16555. SP305-8.
- Magnetism; Nickel; Pulsed NMR; Spin lattice relaxation; Knight shift; 16357. SP305-8.
- Magnetism; Quantum interference; Susceptibility; Copper; Impurities; 14365. SP305-6.
- Magnetism; Susceptibility; Clustering; Critical phenomena; Cu-Ni alloy; Heat treatment; 13709. SP305-5.
- Magnetism; Units; 16240. SP305-8.
- Magnetite; Electron microscopy;  $\text{Fe}_2\text{O}_3$ ;  $\text{Fe}_3\text{O}_4$ ; High-voltage electron microscopy; *in situ* hematite; 16292. SP305-8.
- Magnetization; Magnetometer; Vibrating coil; Cryogenic; Demagnetization; Instrumentation; Magnetic moment; 9825. SP305-1.
- Magnetization; Magnetometer calibration; Measurement of magnetization; Saturation magnetization; Vibrating-sample magnetometer; Ferro- and ferrimagnetism; J70C4-236, 255-262 (1966). SP305.
- Magnetization; Magnetometer calibration; Vibrating-sample magnetometer; 10864. SP305-2.
- Magnetization; Metal; Mössbauer;  $^{57}\text{Fe}$ ;  $^{161}\text{Dy}$ ; Amorphous; 16403. SP305-8.
- Magnetization; Metamagnet; Phase transition; Shape effects; Susceptibility; Antiferromagnet; Dipolar interactions;  $\text{DyPO}_4$ ; Heat capacity; 12541. SP305-4.
- Magnetization; Mixed titanates; Semiconductors;  $\text{SrTiO}_3$ ; Superconductivity;  $\text{BaSrTiO}_3$ ;  $\text{CaSrTiO}_3$ ; Ceramics; 10235. SP305-1.
- Magnetization; Torque; Magnet; 16546. SP305-8.
- Magnetization curves; Semiconducting  $\text{SrTiO}_3$ ; Superconducting  $\text{SrTiO}_3$ ; Critical fields; Heat capacity; 9269. SP305.
- Magnetization measurement; Neutron diffraction; Amorphous  $\text{Tb}_2\text{Fe}_{1-x}\text{Zr}_x$ ; Curie temperatures; 16405. SP305-8.
- Magnetization of pure iron; Magnetometer calibration; Measurement of magnetization; Ferromagnetism; 9619. SP305-1.
- Magnetizations;  $\text{GdAsO}_4$ ;  $\text{GdVO}_4$ ; Heisenberg antiferromagnets; Low temperatures; 12983. SP305-4.
- Magnetizing impedance; Ratio error; Single-stage transformer; Two-stage transformer; Voltage ratio; Current ratio; Leakage impedance; 14493. SP305-6.
- Magneto elastic tensor; Paramagnetic resonance; Quadrupole transitions; Spin hamiltonian; Transition probabilities; Ultrasonic (paramagnetic) resonance; Ultrasonic transition probabilities; Wave functions of  $\text{Fe}^{++}$ ; J73A No. 2, 241-268 (1969). SP305-1.
- Magneto resistors; Photoresistors; Standard terminology; Flux sensitive resistors; Galvanomagnetic devices; Hall effect; 10033. SP305-1.
- Magnetoacoustic absorption; Potassium; Single crystals; Zone refining; Fermi surface; 9197. SP305.
- Magnetocardiography; Magnetometry; Superconducting devices; Cardiology; Gradiometry; Instrumentation; Josephson effect; 12564. SP305-4.
- Magnetoencephalography; Magnetic evoked response; 16517. SP305-8.
- Magneto hydrodynamics; Metric changeover; Safety; Air conditioners; Appliance; Bone cement; Computer; Energy; Energy labels; Fire fatalities; Hydrogen fuel; DIM/NBS 59, No. 6, 121-144 (1975). SP305-7.
- Magneto hydrodynamics; Oxides; Coal slag; Electrical conductivity; High temperature; 14373. SP305-6.
- Magneto hydrodynamics; Potassium activity; Synthetic coal slags; System  $\text{K}_2\text{O}-\text{CaO}-\text{Al}_2\text{O}_3-\text{SiO}_2$ ; Vaporization; Crystallization; 16457. SP305-8.
- Magneto hydrodynamics; System  $\text{K}_2\text{O}-\text{ZrO}_2$ -cerium oxide; Thermal microbalance; X-ray diffraction; Cerium oxide; 16440. SP305-8.
- Magneto hydrodynamics; Zirconates; Coal slag; Electrical conductivity; High temperature; 14081. SP305-6.
- Magneto hydrodynamics (MHD); Phase equilibria; Transport properties; Vaporization; Viscosity; Diffusion; Electrical conductivity; 16321. SP305-8.
- Magnetometer; Magnetotelluric; Quantum interference; SQUID; Superconductor; Geophysical prospecting; 14600. SP305-6.
- Magnetometer; Martensite; Nondestructive; Fatigue monitor; Low temperature; TN613. SP305-3.
- Magnetometer; Mechanical failure; Microwaves; Oscillator calibration; Big G; Bolometer calibration; Earthquake prediction; Frequency standard systems; Heat-pipe ovens; Hoover; Liquefied natural gas; DIM/NBS 58, No. 8, 169-192 (1974). SP305-6.
- Magnetometer; Microwaves; Quantum interference; Superconductivity; 12954. SP305-4.
- Magnetometer; Multilayer insulated; Dewar; Gas shielded; Helium; Liquid; 13465. SP305-5.
- Magnetometer; Nuclear quadrupole resonance; J73C Nos. 3 and 4, 67-73 (1969). SP305-1.
- Magnetometer; Optical pumping; Geomagnetism; 13179. SP305-5.
- Magnetometer; Optical pumping; Resonance line; Rubidium oscillator; Solenoid; Absorption cell; Earth's magnetic field; Helmholtz coil; 12396. SP305-4.
- Magnetometer; Piezoelectric; Vibrating-sample magnetometer; Bimorph; Cryogenic; Low-temperature; 12046. SP305-3.
- Magnetometer; SQUID; Superconducting device; Geomagnetism; 15035. SP305-7.
- Magnetometer; Vibrating coil; Cryogenic; Demagnetization; Instrumentation; Magnetic moment; Magnetization; 9825. SP305-1.
- Magnetometer calibration; Measurement of magnetization; Saturation magnetization; Vibrating-sample magnetometer; Ferro- and ferrimagnetism; Magnetization; J70C4-236, 255-262 (1966). SP305.
- Magnetometer calibration; Measurement of magnetization; Ferromagnetism; Magnetization of pure iron; 9619. SP305-1.
- Magnetometer calibration; Vibrating-sample magnetometer; Magnetization; 10864. SP305-2.
- Magnetometers; Nuclear magnetic resonance; Superconducting devices; 11348. SP305-2.
- Magnetometry; Superconducting devices; Cardiology; Gradiometry; Instrumentation; Josephson effect; Magnetocardiography; 12564. SP305-4.

netometry; Superconducting devices; Instrumentation; Josephson effect; 12565. **SP305-4.**

netometry; Superconducting devices; Josephson effect; 936. **SP305-3.**

netometry; Superconductivity; Cardiography; Instrumentation; Josephson effect; 12190. **SP305-3.**

netometry; Superconductivity; Cryogenics; Josephson effect; 12892. **SP305-4.**

neto-optical density of states; Optical density of states; microconductor laser; Delta-function formulation of density of states; Green effect; k-conserving transitions; Landau levels; superconductor; *SP323*, pp. 437-450. **SP305-4.**

neto-optics; Electron scattering; Magnetic spectrometer; 700. **SP305.**

netophonon; Magnetoresistance; Semiconductors; Transport theory; *InSb*; 12933. **SP305-4.**

netophonon effect; Magnetoresistance; Semiconductors; transport theory; *TN614*. **SP305-4.**

netophonon effect; Seebeck effect; Semiconductor; Transport; 14212. **SP305-6.**

netophonon effect; Semiconductors; Transport theory; 1512. **SP305-5.**

netophonon effect; Semiconductors; Transport theory; blizmann equation; 12918. **SP305-4.**

netophonon effect; Semiconductors; Transport theory; 1643. **SP305-8.**

neto-reflection; Arsenic (As); Electronic density of states; Fermi surface; Interband transition; Landau levels; *SP323*, pp. 39-44. **SP305-4.**

netoresistance; Aluminum; Copper; Electrical properties; 1686. **SP305-5.**

netoresistance; Aluminum; Copper; 12152. **SP305-3.**

netoresistance; Copper; Electronic scattering; 10878. **SP305-2.**

netoresistance; Copper; Electronic scattering; 11090. **SP305-2.**

netoresistance; Copper; 12153. **SP305-3.**

netoresistance; Fermi surface; High-field magnetoresistance; 10761. **SP305-1.**

netoresistance; Perovskites; Potassium tantalate; Band structure; 11589. **SP305-2.**

neto-resistance; Pressure effects; Electronic density of states; Galvano-magnetic properties; Graphite; Hall Effect; *SP323*, pp. 717-725. **SP305-4.**

netoresistance; Resistance; Aluminum; Electron scattering; 2278. **SP305-3.**

netoresistance; Resistance; Temperature coefficient; Alloy; 12561. **SP305-4.**

netoresistance; Semiconductor; Strontium titanate; Energy and structure; 9724. **SP305-1.**

netoresistance; Semiconductors; Transport theory; Boltzmann equation; 13140. **SP305-5.**

netoresistance; Semiconductors; Transport theory; Magnetophonon effect; *TN614*. **SP305-4.**

netoresistance; Semiconductors; Transport theory; coustelectric gain; Hot electrons; Indium antimonide; 2617. **SP305-4.**

netoresistance; Semiconductors; Transport theory; *InSb*; magnetophonon; 12933. **SP305-4.**

netoresistive device; Magnetoresistor; Standard terminology; Galvanomagnetic device; Hall effect device; Hall element; 0034. **SP305-1.**

netoresistivity; Resistivity; Superconducting; Aluminum; Electron scattering; 12532. **SP305-4.**

netoresistor; Standard terminology; Galvanomagnetic device; Hall effect device; Hall element; Magnetoresistive device; 10034. **SP305-1.**

netosphere; Multicomponent;  $Pc$  1 micropulsations; Plasma; Polarization; Propagation; Alfvén; Dispersion; hydromagnetic; *TN342*. **SP305.**

Magnetosphere; Particle flux; Corpuscular; Ionization; 10187. **SP305-1.**

Magnetosphere; Plasma theory; Shock wave; Solar wind; Earth magnetic field; Earth tail; *SP336*, p. 297. **SP305-3.**

Magnetotelluric; Quantum interference; SQUID; Superconductor; Geophysical prospecting; Magnetometer; 14600. **SP305-6.**

Magnets; Magnet wire;  $Nb_3Sn$ ;  $Nb_3Sn$  magnets;  $Nb_3Sn$  multifilamentary wires; Strain; Stress; Superconducting magnets; Critical currents; 16474. **SP305-8.**

Magnets; Metallurgy; Aluminum; Cryogenics; Magnetic energy storage; 10822. **SP305-1.**

Magnets; Purification; Refrigeration; Safety; Storage; Thermodynamic properties; Transportation; Conservation; Cryoelectronics; Cryogenics; Cryopumping; Helium; Liquefaction; *Monogr. 111*. **SP305-1.**

Magnets; Superfluids; Transport processes; Critical phenomena in: Binary alloys; Binary liquid mixture; Critical opalescence; Gas liquid transition; Laser light scattering; 10602. **SP305-1.**

Magnitude; Electron-avalanche breakdown; Dielectrics; Frequency dependence; *SP435*, pp. 331-346 (Apr. 1976). **SP305-8.**

Magnitude spectra; Nitrogen-15 nuclear magnetic resonance spectroscopy; Nuclear Overhauser effects; Amino sugars; Chemical shifts; 15236. **SP305-7.**

Magnon energy gap; Magnons; Spin-lattice relaxation time; Antiferromagnetism; 10740. **SP305-1.**

Magnon gap; Relaxation times; Antiferromagnetism;  $CoF_2$ ; 10624. **SP305-1.**

Magnon Raman process; Spin lattice relaxation time; Antiferromagnetism; Low temperature; 9982. **SP305-1.**

Magnon-Raman process; Nuclear magnetic resonance; Relaxation time; Spin echo technique; Temperature dependence; Antiferromagnetism; 9918. **SP305-1.**

Magnons; Spin-lattice relaxation time; Antiferromagnetism; Magnon energy gap; 10740. **SP305-1.**

Mahoning River; Neutron activation analysis; Pollution; Sediment; Trace elements; Water; Wet chemical analysis; Atomic absorption analysis; Californium-252; *SP422*, pp. 225-230 (Aug. 1976). **SP305-8.**

Mail; Mathematical programming; Message network synthesis; Network optimization; Satellite; Service improvement; Communication; Cost-benefit; Deployment; Electronic transmission; Facility location; *NBSIR 75-737*. **SP305-7.**

Mail handling; Mail processing; Mail sorting; Methodology; Human factors; 11948. **SP305-3.**

Mail processing; Mail sorting; Methodology; Human factors; Mail handling; 11948. **SP305-3.**

Mail sorting; Methodology; Human factors; Mail handling; Mail processing; 11948. **SP305-3.**

Mailings; Results; Therapy departments; Thermoluminescence dosimeters; Uncertainty; Water phantom; Absorbed dose; Cobalt-60 gamma radiation; Computation check; Dose interpretation; *J. Res. 80A* No. 4, 663-668 (1976). **SP305-8.**

Main entries; Anglo-American cataloging rules; Cataloging rules; 13432. **SP305-5.**

Maintainability; Measures of effectiveness; Multidimensional decisions; Reliability; Subjective evaluation; *SP361*, Vol. 1, pp. 63-71. **SP305-4.**

Maintainability prediction; Microbiology; Microflora shift; Physiology; Psychology; Space station simulator; Submersible; Closed ecological system; Habitability; *SP336*, pp. 599-621. **SP305-3.**

Maintenance; Nursing homes; Reliability; Schools; Smoke detectors; Atriums; Fire detection; Flame detectors; Heat detectors; Hospitals; Hotels; 16179. **SP305-8.**

Maintenance; Operational readiness; Performance monitoring; Testing; Data acquisition; Data dissemination; Data processing; *SP336*, pp. 549-568. **SP305-3.**

- Maintenance; Passenger car tires; Safety; Tires, passenger car; Wear; Construction; *C152*. SP305-2.
- Maintenance; Replacement; Specifications; Standards; Engine pumper; Fire vehicle; Ladder truck; *TN891*. SP305-8.
- Maintenance; Research accidents; Safety; Accidents; Buildings; Construction; *16315*. SP305-8.
- Maintenance; User needs; Carpets; Durability; Economics; Field studies; Flooring; Floor coverings; Life-cost; *TN783*. SP305-5.
- Maintenance costs; Monitoring systems; Diagnostic systems; Diesel engines; *NBS-GCR-75-43*. SP305-8.
- Maintenance of safety; Public safety; Safety responsibility; Construction safety; Construction surety; Degradation of safety with age and use; *SP423*, pp. 165-170 (Apr. 1976). SP305-8.
- Maleonitriledithiolate; Metalloboranes; Nuclear magnetic resonance; Oxidative addition; Palladium; Boron hydrides; Deuterium; Iridium; *16566*. SP305-8.
- Malfunctions; Man-machine systems; Remote control systems; Systems engineering; State-of-the-art reviews; Acceptability; Coding; Costs; Data transmission systems; Decisionmaking; Economics; Errors; Information theory; Input-output devices; Interfaces; *NBS-GCR-74-29*. SP305-8.
- Malonic acid; Periodic acid; Pyrene radical; Quinones; Reaction mechanism; Sodium metaperiodate; Aprotic solvents; Aromatic hydrocarbons; *J.72A No. 4*, 341-350 (1968). SP305-1.
- Maltose- $1^{14}C$ ; Mutarotation of 3-O- $\alpha$ -D-glucopyranosyl-D-arabinopyranose; Ruff degradation of; Sugars; *J.72A No. 6*, 769-771 (1968). SP305-1.
- Mammalian tissues; Tissue parameters; Ultrasound; Velocity; Absorption; Attenuation; *SP453*, pp. 21-28 (Oct. 1976). SP305-8.
- Man machine interface; MICR printing; Remittance processing; Remittance register; Audit trail; Check endorsement; Check handling; Data entry; Document labeling; Labeling; Listing; *NBSIR 74-577-1*. SP305-6.
- Man machine interface; MICR printing; Remittance processing; Remittance register; Audit trail; Check endorsement; Check handling; Data entry; Document labeling; Labeling; Listing; *NBSIR 74-577-2*. SP305-6.
- Management; Decision-making; Education; Operations research; Quantitative analysis; *TN414*. SP305.
- Management; Manufacturing; Conservation; Economic; Energy; *SP403*, pp. 103-111 (June 1976). SP305-8.
- Management; Manufacturing; Paper; Petroleum; Resources; Standards; Steel; Thermal; Thermodynamics; Automobile; Break-even analysis; Conservation; Cooling; Economics; Energy; Environment; Fuel; Heating; Imports; Industry; *SP403*. SP305-8.
- Management; Medical facilities; Performance specifications; Architecture; Construction; Design; Hospital design; *BSS54*, pp. 45-48. SP305-6.
- Management; Microeconomics; Pricing; Administration of computing; Computer services; *15131*. SP305-7.
- Management; NBS; Standard time; Time; USNO; Astronomical time; Atomic time; Frequency; International atomic time; *13062*. SP305-5.
- Management; NBS; Standard time; Time; USNO; Astronomical time; Atomic time; Frequency; International Atomic Time; *14265*. SP305-6.
- Management; Network; Computer network; *15547*. SP305-7.
- Management; Network, network management; Computer network; *TN805*. SP305-6.
- Management; Office buildings; "open" systems; Performance specifications; Building process; Building systems; "closed" systems; *SP361*, Vol. 1, pp. 357-374. SP305-4.
- Management; Operating; Procurement; Services; Users-Products; Creative-partnership; *SP383*. SP305-5.
- Management; Operation; Classification; Data; Distribution symposium; Documents; Evaluation; Information systems; *11604*. SP305-2.
- Management; Operations research; Quantitative analysis; Decision-making; Education; *10793*. SP305-1.
- Management; Operations research; Systems engineering; Decisions; Gaming; Government; *10532*. SP305-1.
- Management; Public; Science; Technology transfer; Administration; Education; Information; *14716*. SP305-6.
- Management; Quality control; Software; ADP policies; Computer technology; *14634*. SP305-6.
- Management; Standards; U.S. Government; Computers; Data processing; Federal Information Processing Standards; *FIPS PUB 23*. SP305-5.
- Management evaluation; Resource sharing; Computer networking research; Computer network management; *TN801*. SP305-6.
- Management evaluation; Resource sharing; Computer network management; Computer networking research; *15545*. SP305-7.
- Management information systems; International Organization for Standardization; Standards; U.S. Government; American National Standards; Computers; Data elements and codes; Data processing systems; Federal Information Processing Standards; *FIPS PUB 12-2*. SP305-6.
- Management information systems; Municipal systems; Technology transfer; Information systems; *13413*. SP305-5.
- Management information systems; Public services; Security; Standards; User groups; Computers; Data base management; Governments; *15923*. SP305-8.
- Management information systems; Standards; U.S. Government; American National Standards; Computers; Data elements and codes; Data processing systems; Federal Information Processing Standards; International Organization for Standardization; *FIPS PUB 12*. SP305-3.
- Management information systems; Standards; U.S. Government; Computers; Data elements and representations; Data processing systems; Federal Information Processing Standards; *FIPS PUB 28*. SP305-6.
- Management information systems; United States Government; Data codes; Data elements; Data processing systems standards; Federal information processing standards; *FIPS PUB 19*. SP305-3.
- Management information systems; U.S. Government; American National Standards; Computers; Data elements and codes; Data processing systems; Federal Information Processing Standards; International Organization for Standardization; *FIPS PUB 12-1*. SP305-4.
- Management need; Operations research—NS; *NBSIR 76-1096*. SP305-8.
- Management objectives; Privacy; Security; Standards; Technology assessment; User experience; Auditing; Cost/benefit analysis; Data base; Data base management; DBMS; Government regulation; *SP451*. SP305-8.
- Management principles; Medical records; Privacy; Recordkeeping practices; Security; Citizen rights; Computers; Confidentiality; Data systems; Health records; Information policy; *Monogr. 157*. SP305-8.
- Management research; Opinion survey; Brainstorming; Cybernetic technique; Data collection; Group dynamics; Interpersonal relationships; *12364*. SP305-3.
- Management science; Mathematical models; Numerical analysis; Operations research; Systems analysis; *15607*. SP305-7.
- Management science; Model building; Organization; Search and rescue; Simulation; Team development; Coast Guard; Development; Interdisciplinary team; *12243*. SP305-3.
- Managerial applications; Model; Policies; Queuing model; Scheduling; Simulation; Systems; Administration; Health; Hospital; *12803*. SP305-4.



hagerial breakthrough techniques; Personnel selection for  
terology; Steady control versus sudden change; *SP335*, pp.  
5-88. **SP305-3.**

chester office building; National Bureau of Standards; New  
ork State offices; Office buildings; Commercial buildings;  
nergy conservation; Energy consumption; *16547*. **SP305-8.**

computer; Measure; Model; Monitor; Dialogue; Interac-  
on; *14088*. **SP305-6.**

computer interaction; Man-machine system; Bibliographic  
arch; Conceptual framework; Interactive search system;  
*2876*. **SP305-4.**

computer interface; Computer network; Computer service;  
*1149*. **SP305-6.**

computer interface; Transparent stimulation; Nonobtrusive  
onitoring; Computer terminal network; Human charac-  
teristics; Interactive information retrieval; *TN732*. **SP305-4.**

adatory standards; Accident data; Apparel standard (CS  
91-53); Fire safety; Flammable Fabrics Act; Ignition  
ources; *14293*. **SP305-6.**

adelkern-Flory-Scheraga equation; Molecular weight deter-  
ination; Sedimentation coefficient; Translational diffusion  
efficient; Zimm theory; Bead-spring model; Block  
opolymers; Dilute polymer solutions; Limiting viscosity  
umber; *16026*. **SP305-8.**

anganese; Medieval windows; Potassium; Sodium; Activation  
alysis; Archeology; Glass; *13171*. **SP305-5.**

anganese; Micrometer cell; Thin layer electrochemistry;  
anadium; Automatic titrations; Coulometric titrations; Cur-  
nt integration; Digital timing; Epinephrine; Linear sweep  
oltammetry; *SP422*, pp. 861-869 (Aug. 1976). **SP305-8.**

anganese; Mossbauer effect; Palladium, tin; Alloys; An-  
mony; Hyperfine fields; *13495*. **SP305-5.**

anganese; Molybdenum; Niobium; Plutonium; Potassium;  
araseodymium; Promethium; Rhenium; Rubidium; Sodium;  
urface diffusion; Tantalum; Terbium; Ternary diffusion;  
ermigration; Thulium; Titanium; Tungsten; *J. Phys.*  
*Chem. Ref. Data* 4, No. 1, 177-250 (1975). **SP305-7.**

anganese; Nickel; Transition probabilities; Vanadium;  
hromium; Cobalt; Forbidden transitions; Iron; *J. Phys.*  
*Chem. Ref. Data* 2, No. 1, 85-120 (1973). **SP305-6.**

anganese; Nuclear magnetic resonance; Proton; Bond  
istance; Broad-line second moment; Carbonyl; Hydride;  
ydrogen; *17402*. **SP305-1.**

anganese; Organic; Oxidation; Active; Chemistry; Dioxide;  
eterogeneous; *15902*. **SP305-8.**

anganese; Sampling; Serum; Biological materials; Chromium;  
cobalt; Contamination; *SP422*, pp. 299-310 (Aug. 1976).  
**SP305-8.**

anganese; Sensitivity; Spectrophotometry; Statistical methods;  
inc; Atomic absorption; Cadmium; Copper; Lead; *SP422*,  
p. 1023-1033 (Aug. 1976). **SP305-8.**

anganese activity; Neutron irradiation; Activation analysis;  
alifornium-252; *14116*. **SP305-6.**

anganese bath; NBS-II; Track-etch detector;  $^{235}\text{U}$ ;  $^{24}\text{Na}$ ;  
 $\text{Be}(\gamma, n)$ ; Fission cross section; *SP425*, pp. 635-636. **SP305-5.**

anganese bath; Neutron cross sections; Photoneutron sources;  
urface barrier detectors;  $^6\text{Li}(n, \alpha)$ ; Absolute cross section  
measurements; *SP425*, pp. 236-239. **SP305-7.**

anganese bath; Nu-bar;  $^{232}\text{Cf}$ ; Eta; Fissile nuclei; *SP425*, pp.  
62-265. **SP305-7.**

anganese dioxide; Organic chemistry; Oxidation; Reagent;  
review; Active; *15880*. **SP305-8.**

anganese dioxide; Polycrystalline; Structure; Surface; Adsorp-  
ion; Amorphous; Free-radical; Ionic; *12314*. **SP305-3.**

anganese fluoride; Optical absorption; Polarized crystal spec-  
ra; Cobalt in manganese fluoride; Crystal spectra; *9586*.  
**SP305-1.**

anganese ion; Anhydrous zinc sulfate; Electron paramagnetic  
esonance; *11458*. **SP305-2.**

Manganese spectrum; Mn i configurations ( $3d + 4s$ ) $^6 4p$ ; Energy  
levels Mn i; g-factors Mn i; Interactions between configura-  
tions Mn i; *J.74A No. 4, 507-520 (1970)*. **SP305-2.**

Manganin gage; Mercury; Pressure standards; Calibration;  
Fixed point; Freezing pressure; *9811*. **SP305-1.**

Manganous ammonium sulphate; Paramagnetic salts; Platinum  
resistance thermometers; Ac-dc resistance thermometry; Ac  
susceptibility; Gadolinium sulphate; Germanium resistance  
thermometers; IPTS-68; Low temperature scales, 1-83 K;  
Magnetic thermometer; *15903*. **SP305-8.**

Manganous sulfate; Neutron source; Radiation instruments;  
Calibration; *SP456*, pp. 87-89 (Nov. 1976). **SP305-8.**

Manganous sulfate bath; Neutron emission rate; Neutron  
sources; Neutron spectra; Neutron spectrum measurement  
methods;  $^{252}\text{Cf}$ ; *12880*. **SP305-4.**

Manganous sulfate bath; Neutron self-absorption; Neutron  
source calibration; *12801*. **SP305-4.**

Manganous sulfate bath; Neutron source absorption; Neutron  
source calibration; Thermal neutron absorption; *12177*.  
**SP305-3.**

Manganous sulfate bath calibration of neutron sources;  
Neutron; Neutron standards; *TN576*. **SP305-3.**

Manhattan metric; Covering problems; *J.73B No. 1, 49-51*  
(1969). **SP305-1.**

Manifold; Paper records; Stability; Stability of cellulose; Stabili-  
ty of paper; Thermal analysis; Acidity; Aging; Alum sorption;  
Laboratory aging; *11789*. **SP305-2.**

Manifold papers; Loads; PH; Reflectance; Stability; Storage;  
Tear strength; Testing; Aging; Alkalinity; Burst strength;  
Degradation; Differential thermal analysis; Durability; *12834*.  
**SP305-4.**

Manikin; Audiometry; Diffraction; Head diffraction; Hearing  
aids; Instruments for hearing; *NBSIR 76-1110*. **SP305-8.**

Manipulator; Performance evaluation; Programmable robots;  
Specifications; Guidelines; Industrial robots; *SP459*. **SP305-8.**

Manipulator control; Cerebellar model; Control theory; Data  
storage; Distribution memory; Hierarchical control; *15287*.  
**SP305-7.**

Manipulator control; Perceptron; Adaptive control; Cerebellum  
model; Control theory; *15428*. **SP305-7.**

Manipulators; Robots; Robot systems; Artificial intelligence;  
Automation; Computer control; *16047*. **SP305-8.**

Man-machine communication and automation; Adaptive con-  
trol; Computer control; Control theory; Hierarchical control;  
*16175*. **SP305-8.**

Man-machine interaction; Minicomputer; Network measure-  
ment; Performance measurement; Computer networks; Data  
acquisition; *TN912*. **SP305-8.**

Man-machine interaction; Network protocols; Common prac-  
tices; Communication; Compatibility; Convertibility; Informa-  
tion interchange; Information networks; Interfacing; Interli-  
brary communication; *16053*. **SP305-8.**

Man-machine interaction; Performance measurement; Charac-  
teristics; Computer-aided design; Interactive graphics; *13797*.  
**SP305-5.**

Man-machine interaction; Performance measurement; Time-  
sharing; Computer networks; Interactive computing; *TN880*.  
**SP305-7.**

Man-machine interface; Postal sorting; Voice encoding; Feasi-  
bility; Keyboard alternative; *13393*. **SP305-5.**

Man-machine interface problems; Problem-oriented languages;  
Software usage; Documentation of software; Economics of  
software; *9533*. **SP305-1.**

Man-machine relationships; Teleprocessing; Communication;  
Information processing; Languages; *12021*. **SP305-3.**

Man-machine system; Bibliographic search; Conceptual  
framework; Interactive search system; Man-computer interac-  
tion; *12876*. **SP305-4.**

- Man-machine system; Man-rated centrifuge; Simulation research; Combined environmental stress; Dynamic environment simulator; *SP336*, pp. 587-598. **SP305-3.**
- Man-machine systems; Networks; System commands; User protocols; Command languages; Computers; *TN877*. **SP305-7.**
- Man-machine systems; Networks; System commands; User protocols; Command languages; Computer; *NBSIR 75-744*. **SP305-7.**
- Man-machine systems; Remote control systems; Systems engineering; State-of-the-art reviews; Acceptability; Coding; Costs; Data transmission systems; Decisionmaking; Economics; Errors; Information theory; Input-output devices; Interfaces; Malfunctions; *NBS-GCR-74-29*. **SP305-8.**
- Man-made noise; Pulse duration distribution; Time statistics; Allan variance analysis; Amplitude probability distribution; Amplitude statistics; Average crossing rate; Electromagnetic interference; Electromagnetic noise; Impulsive noise; Inter-pulse spacing distribution; *NBSIR 74-378*. **SP305-6.**
- Manning levels; Modeling; Multiserver queuing system; Resource locations; Resource utilization; Response system; Simulation; *12949*. **SP305-4.**
- Mannitol; Borate; Boric acid; Combining ratio; Complex; Formation constant; *11356*. **SP305-2.**
- Mannitol; Melamine resin; Paper; Sucrose; Animal glue; Glucose; Glycerol; *9455*. **SP305.**
- Mann-Whitney-Wilcoxon statistics; Rank sum statistics; Statistics; c Sample problem; Covariances; *J76B Nos. 1 and 2, 51-52 (1972)*. **SP305-4.**
- Manometer; Fringe counting; Laser interferometer; *13551*. **SP305-5.**
- Manometer; Micrometer; U-tube; Vacuum; Medium-vacuum measurements; *TN420*. **SP305.**
- Manometer; Precision manometer; Pressure;  $p$ - $t$  relation;  $p$ - $t$  relation of water; Standard resistance thermometers; Temperature; Vapor pressure; Vapor pressure of water; Water; *J73A No. 5, 493-496 (1969)*. **SP305-1.**
- Manometers; Mercury; Micrometer; Oil; U-tube; Vacuum measurement; Water; *9413*. **SP305.**
- Manometers; Meteorographs; Micromanometers; Piston gages; Pressure measurement; Vane gages; Vapor pressure measurement; Calibration techniques; Capacitance pressure gages; Gas column manometers; *Monogr. 114*. **SP305-2.**
- Manometry; McLeod gage; Static pressure division; Vacuum measurements accuracy; Vacuum standards; Absolute vacuum reference standards; Dynamic pressure division; *12677*. **SP305-4.**
- Manometry; Mercury manometer; Pressure; *14921*. **SP305-7.**
- Manometry; Pressure measurement; Thermomolecular pressure difference; Vapor pressure; Vapor pressure thermometry; Capacitance manometer; Cryogenic thermometry; *11740*. **SP305-2.**
- Manpower problems; Astronomy; *15886*. **SP305-8.**
- Man-rated centrifuge; Simulation research; Combined environmental stress; Dynamic environment simulator; Man-machine system; *SP336*, pp. 587-598. **SP305-3.**
- Manual additions; Narrative text editing; Punched paper tape typewriter; Automatic capitalization; Automatic deletions; Automatic stop for revision; Editorial mark sensing; *TN440*. **SP305-1.**
- Manual games; Simulation; Computer; Decision-making; Games; Learning; *SP395*. **SP305-6.**
- Manufactured building; Mobile homes; Model documents; State-of-art study; Building regulation; Evaluation; Inspection; *TN775*. **SP305-5.**
- Manufactured building; Mobile homes; Rules and regulations; State-of-the-art study; Building regulation; Enforcement; Evaluation; Inspection; Legislation; *TN853*. **SP305-6.**
- Manufactured building; Model codes; Model documents; NCSBCS; On-site construction; Prefabricated construction Standards; State-local relationship; State regulations; Building codes; Factory-built housing; Industrialized building; Inspection; *NBS-GCR-74-27*. **SP305-8.**
- Manufactured building; Model documents; NCSBCS; Standard State regulation; Building codes; Certification; Compliance assurance; Evaluation; Inspection; *B5587*. **SP305-8.**
- Manufacturing; CAD; CAD/CAM; Computer-aided design *16146*. **SP305-8.**
- Manufacturing; Conservation; Economic; Energy; Management *SP403*, pp. 103-111 (June 1976). **SP305-8.**
- Manufacturing; Marketing; Costs; Energy; Heating; *SP403*, pp. 199-213 (June 1976). **SP305-8.**
- Manufacturing; Paper; Petroleum; Resources; Standards; Steel Thermal; Thermodynamics; Automobile; Break-even analysis; Conservation; Cooling; Economics; Energy; Environment; Fuel; Heating; Imports; Industry; Management; *SP403*. **SP305-8.**
- Manufacturing Chemists' Association (MCS); Performance of plastics outdoors; Plastics; Weathering of plastics; *13395*. **SP305-5.**
- Manufacturing industry; Metrication; Metrication, attitude toward; Metrication, costs and benefits of; Metrication, impact of; Metric conversion; Metric system; Metric usage; SI U.S. Metric Study; International System of Units; *SP345-4*. **SP305-3.**
- Manuscripts; Publications; Scientific literature; *10625*. **SP305-1.**
- Many body effects; Nuclear magnetic resonance; Anisotropic scattering; In-Pb; Knight shift; Liquid alloys; *12574*. **SP305-4.**
- Many body effects; Phase shifts; Soft x-ray; Transition probability; Density of states; Exciton; *SP323*, pp. 253-258. **SP305-4.**
- Many body effects; Phase shifts; Soft x-ray; Transition probability; Density of states; Exciton; *J74A No. 2, 267-272 (1970)*. **SP305-2.**
- Many-beam dynamical interaction in electron diffraction; Structure factors for electrons of TiO; Critical voltage for the 400 of TiO; Critical voltage for the 110 of TiO<sub>2</sub> (rutile); *SP364*, pp. 155-164. **SP305-4.**
- Many-body; Spectrum; Variational; Vlasov; Classical; Collective variables; Eigenfunctions; Eigenvalues; *10145*. **SP305-1.**
- Many-body analysis; Non-local velocity; Canonical point transformation; Dependent interaction; Equivalent non-singular potential; Hard-sphere gas; Kinetic equation; *10883*. **SP305-2.**
- Many-body clusters; Nuclei; Quarks; Coherent production Cosmic rays; High momentum components; *12144*. **SP305-3.**
- Many-body effects; Optical properties; Photoemission; Soft x-ray; Specific heat; Superconductivity; Transport properties Tunneling; Band structure; Disordered systems; Electronic density of states; Ion neutralization; Knight shift; *SP323*. **SP305-4.**
- Many-body effects; Plasmon satellite; Soft x-ray; Electronic density of states; Light metals; *SP323*, pp. 273-274. **SP305-4.**
- Many-body effects; Superconductivity; Alloys; Density of states; Low temperature specific heat; Magnetic specific heat; *SP323*, pp. 557-562. **SP305-4.**
- Many-body effects; Superconductivity; Alloys; Density of states; Low temperature specific heat; Magnetic specific heat; *J74A No. 3, 449-454 (1970)*. **SP305-2.**
- Many-body interactions; Plasmons; Singularities; Soft x-rays Alloys; Auger transitions; Density of states; *SP323*, pp. 287-293. **SP305-4.**
- Many-body interactions; Plasmons; Singularities; Soft x-rays Alloys; Auger transitions; Density of states; *J74A No. 2, 273-279 (1970)*. **SP305-2.**



any-body problem; Multiple scattering; Statistical physics; Transmission coefficient; Defects in harmonic crystal; Functional equation; *12375*. **SP305-3.**

any-body systems; Eigenfunctions; Hydrodynamic variables; Irreversible processes; Liouville operator; *9968*. **SP305-1.**

any-body theory; Diagrammatic perturbation theory; Linked-cluster theorem; *16614*. **SP305-8.**

any-body theory; Surface physics; Electrons in solids; Electron tunneling; Field emission; *11312*. **SP305-2.**

any-one reducibility; Recursive functions; R.e. many-one degrees; R.e. one-one degrees; Semi-True systems; Splinters; Combinatorial systems with axiom; Degrees of unsolvability; General decision problems; Markov algorithms; *14998*. **SP305-7.**

apping; Models; Nursing homes; Realms; Building fires; Case studies; Critical events; Decisions; Episodes; Fires; Home for the aged; Hospital fires; Human behavior; Institutions; *NBS-GCR-76-73*. **SP305-8.**

raging steel; Metallic coatings; Missiles; Rocket-fuel tanks; Compatibility tests; Electrolytic protection; Hydrazine; *1934*. **SP305-3.**

raging steel; Nitriding; Precision equipment; Surface hardened; Temporal dimensional stability; Ultrastability; Gage blocks; *11596*. **SP305-2.**

raging steels; Mechanical properties; Nickel alloys; Phenol-formaldehyde; Stainless steels; Superconducting machinery; Thermal conductivity; Titanium alloys; Aluminum alloys; Composites; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; *NBSIR 76-848*. **SP305-8.**

raging steels; Nickel; Stainless steels; Steels; Alloys; Corrosion-resisting alloys; Copper-nickel alloys; Electroplating; Electrical resistance alloys; Heat resisting alloys; Magnetic alloys; *Monogr. 106*. **SP305-1.**

raging steels; Refractory alloys; Stainless steels; Strengthening mechanisms; Superalloys; Titanium alloys; Tool steels; Ultra-high strength; Alloy steels; Austempered steels; Cold-drawn steels; Dispersion hardened alloys; *12789*. **SP305-4.**

ragoni effect; Surface tension; Thermocapillarity; Convection; Drops; *16341*. **SP305-8.**

rginal analysis; Quality control; Safety standards; Economic cost of failure prevention; Frequency of failure; Government action; Life-cycle costing; *SP423*, pp. 107-116 (Apr. 1976). **SP305-8.**

rginal analysis; Thermal efficiency; Benefit-cost analysis; Building economics; Building envelope; Economic analysis; Economic efficiency; Energy conservation; Engineering economics; Insulation; Life-cycle costs; *BSS64*. **SP305-6.**

rginal ditching; Creep; Dental amalgam; *15186*. **SP305-7.**

rginal fracture, dental amalgam; Mercurous copious expansion, dental amalgam; Porosity of dental amalgam; Amalgam, dental; Amalgam, dental, effect of technique on corrosion; Clinical failure of amalgam; Corrosion, dental amalgam; Dental materials; *SP354*, pp. 33-41. **SP305-4.**

rginal oscillator; Oscillator, marginal; UHF marginal oscillator; Density, magnetic flux; Flux density; Magnetic flux density; *10035*. **SP305-1.**

rine atmospheres; Plastics, fiber-reinforced; Pultrusions; Stress-rupture testing; Sunlight; Ultraviolet radiation; Weatherability; Antenna-support materials; Environmental degradation; Guys, nonmetallic; *NBSIR 76-1069*. **SP305-8.**

rine corrosion; marine *Desulfovibrio*; Polarization techniques; Anaerobic corrosion; Depolarizing agent; Ferrous ions; *13806*. **SP305-6.**

rine *Desulfovibrio*; Polarization techniques; Anaerobic corrosion; Depolarizing agent; Ferrous ions; Marine corrosion; *13806*. **SP305-6.**

rine eggs; Metabolism; Microcalorimetry; Arbacia punctulata; Calorimetry; Cleavage of cells; Development of cells; Fertilization; Growth of cells; Heat production; *15151*. **SP305-7.**

Marine environment; Polarization techniques; Protective coatings; Steel piling; Cathodic protection; Coating index; Corrosion rates; *13804*. **SP305-6.**

Marine environment; Powder coating; Salt water; Solid lubrication; Abrasion; Corrosion protection; Friction; *SP452*, pp. 25-30 (Sept. 1976). **SP305-8.**

Marine pollution (petroleum) monitoring; Maritime Administration (MarAd); National Bureau of Standards (NBS); National Oceanic and Atmospheric Administration (NOAA); Oil slicks and tar balls; Petroleum hydrocarbon measurement; Sampling methods; *SP409*. **SP305-6.**

Marine sediments; Pollution; Seawater; Baseline studies; Gas chromatography; Gas chromatography-mass spectrometry; Hydrocarbon; Liquid chromatography; *15706*. **SP305-7.**

Maritime Administration (MarAd); National Bureau of Standards (NBS); National Oceanic and Atmospheric Administration (NOAA); Oil slicks and tar balls; Petroleum hydrocarbon measurement; Sampling methods; World Meteorological Organization (WMO); *SP409*. **SP305-6.**

Maritime, cargo; Mathematical models; Optimal locations; Systems analysis; Transportation; Containerization; *TN530*. **SP305-2.**

Market adjustments; Optimization and feasibility; Rehabilitation, conservation; Housing; Housing demand, supply, needs; Housing rehabilitation; Land economics; *NBSIR 76-1043*. **SP305-8.**

Market aggregation; Tool, market; Aggregation, market; *NBS-GCR-ETIP 73-01*. **SP305-8.**

Market pulp; Paper, waste; Pulp, secondary; Recycled paper; Secondary pulp; Waste paper; *15604*. **SP305-7.**

Marketing; Costs; Energy; Heating; Manufacturing; *SP403*, pp. 199-213 (June 1976). **SP305-8.**

Marketing; Mechanical failure; Product performance; Product reliability; Product testing; Consumer products; *SP423*, pp. 209-212 (Apr. 1976). **SP305-8.**

Marketplace; Performance measurement; Quality; Seller; Specifications; Validation; Buyer; Computer software; *15495*. **SP305-7.**

Mark-Houwink; Molecular weight; Polymer; Polyvinyl acetate; Copolymer; Intrinsic viscosity; Latex; *9581*. **SP305-1.**

Mark-Houwink; Molecular weight; Stockmayer-Fixman; Unperturbed dimensions; Viscosity; 1-chloronaphthalene; 1,2,4-trichlorobenzene; Fractionation; Limiting viscosity number; Linear polyethylene; *14054*. **SP305-6.**

Markov algorithms; Many-one reducibility; Recursive functions; R.e. many-one degrees; R.e. one-one degrees; Semi-True systems; Splinters; Combinatorial systems with axiom; Degrees of unsolvability; General decision problems; *14998*. **SP305-7.**

Markov chain; Analysis of information; Categorical data; Chi-square; Contingency table; Independence; *13364*. **SP305-5.**

Markov chains; Mathematical economics; Mathematical logic; Primitivity and automatic theory; Relation, calculus; Aggregation; Automatic theory; Boolean matrices; Consolidation; DeMorgan-Pierce-Schroder relation algebra; Input-output models; *10025*. **SP305-1.**

Markov chains; Order-disorder transitions; Random variables; Restricted chains; Theta point; Transition probabilities; Volume exclusion; Linear polymers; *11646*. **SP305-2.**

Markov process; Probability theory; Ring theory; Stochastic process; Information theory; *J75B*, Nos. 3 and 4, 139-148 (1971). **SP305-3.**

Markov processes; Master equation; Relaxation processes; Stochastic processes; First passage times; Fokker-Planck equation; *10291*. **SP305-1.**

Markov renewal process; Runway; Airport; Air traffic control; Capacity concept; *11960*. **SP305-3.**

Markov Stochastic model; Self-diffusion; Continuous interface profile; Diffusion equation; Hypergeometric differential equation

- tion; Interfacial force; Liquid-vapor interface; 15726. SP305-8.
- Markush; Mixtures; Reactions; Representations; Screens; Structures; Topological codes; Chemistry; Compounds; Computer; File organization; HAYSTAG; Hayward; Information retrieval; Linear notation; 10363. SP305-1.
- Mars; Reflectance; Scattering; Simulation; Spectral; Absorbing; Anomalous dispersion; Carbon dioxide; Cryodeposit; Cryogenics; Frost; Infrared; Integrating sphere; SP336, pp. 165-183. SP305-3.
- Mars atmosphere exploration; Planetary atmosphere-surface interaction; Planetary meteorology; Research facility; Simulation techniques; Space research; Convective processes; SP336, pp. 699-723. SP305-3.
- Mars environmental simulation; Outgassing; Thermal insulation; Thermal-vacuum chambers; Evacuating; Heat transmission; Infrared scanning; SP336, pp. 725-748. SP305-3.
- Martensite; Crystallographic theory; Iron-nickel alloy; 11820. SP305-3.
- Martensite; Fe-Ni alloys; Lattice parameters; 11433. SP305-2.
- Martensite; Fe-Ni alloys; Low temperatures; 10008. SP305-1.
- Martensite; Metals; Phase transformations; Cryogenics; Crystal structure; 10010. SP305-1.
- Martensite; Meteorite; Tishomingo; Alloy; Austenite; Electron microscopy; Iron-nickel; 15764. SP305-8.
- Martensite; Nondestructive; Fatigue monitor; Low temperature; Magnetometer; TN613. SP305-3.
- Martensite; Phase transformation; Twinning; Crystallography; Gold-cadmium alloy; 12006. SP305-3.
- Martensite; Phase transformations; Crystallography; Gold-cadmium alloys; 12899. SP305-4.
- Martensite; Point defects; Electrical resistivity; Iron-nickel alloys; 12556. SP305-4.
- Martensite; Stacking faults; Low temperatures; 10184. SP305-1.
- Martensitic transformation; Molecular dynamics; Phase diagram; P-V-T data; Iron; Lattice structure; 12426. SP305-4.
- Martian atmosphere; Mass spectrometry; Photoionization; Ion clusters; Ion-molecule reactions; Ionosphere; 14483. SP305-6.
- Martin Scriblerus; Normal approximation; Poisson distributions; Scriblerus Club; Statistical test; William Buckley; Abraham De Moivre; *Annuities upon Lives*; "Argument for Divine Providence"; *Arithmetica Memorativa*; 9695. SP305-1.
- Maser; M-type stars; Molecular emission, Orion Nebulae; Silicon monoxide; Rotational transitions; 15210. SP305-7.
- Maser; Noise; Standards; Time standards; Wall shift; Atomic clocks; Cesium beam; Clocks; Frequency fluctuations; Frequency standards; Hydrogen maser; Hyperfine separation; 10108. SP305-1.
- Maser; Orion; Pumping processes; Radio astronomy; Silicon monoxide; Circular polarization; 15004. SP305-7.
- Maser; Phase fluctuations; Semiclassical; Correlations; Laser; 11450. SP305-2.
- Maser amplifier; Maser dynamics; Laser dynamics; 11123. SP305-2.
- Maser dynamics; Laser dynamics; Maser amplifier; 11123. SP305-2.
- Maser oscillator; Metrology; Quantum electronics; Saturated absorption; Slave oscillators; Accurate frequency standards; Accurate length standards; Accurate time standards; Accurate voltage standards; Ion storage; Laser stabilization; 12099. SP305-3.
- Maser oscillator; Metrology; Saturated absorption; Slave oscillators; Quantum electronics; Ion storage; Laser stabilization; 12068. SP305-3.
- Maser spectrometer; Stark effect; Voltage standard; Dipole moment; HCN resonance spectrum; J.74A No. 6, 791-799 (1970). SP305-2.
- Maser tuning; Spin exchange; Frequency pulling; Hydrogen beam tube; Hydrogen maser; TN387. SP305-2.
- Masers; Circumstellar shells; 16103. SP305-8.
- Masers; NBS-III; NBS-5; NBS/USNO time coordination; Omega; Optical pumping; Precision; Quartz crystal oscillators; Radio T/F dissemination; Rb frequency standards; Satellite T/F dissemination; Short-term stability; SI Units; T. Monogr. 140. SP305-6.
- Masers; Radio frequency measurements; Satellite timing; Spectral density; Standard frequency and time broadcast; Statistics of frequency and time measurements; Time scale; Time synchronizations; TV timing; VLF timing; Aton beams; SP300. Volume 5. SP305-4.
- Mashed potatoes; Instant, package quantities of; Package quantities of instant mashed potatoes; Potatoes, instant mashed; package quantities of; Instant mashed potatoes, package quantities of; PS41-70. SP305-3.
- Masking; Physiology of hearing; Pitch perception; Theories of hearing; Diplacusis; Hearing; Hearing loss; 10525. SP305-1.
- Masking; Psychoacoustics; Threshold; Air-conduction; Audiometry; Bone-air cancellation; Bone-conduction; Hearing; 10077. SP305-1.
- Masking; Sirens; Speech recognition; Traffic noise; Alarm signals; Hearing; Loudness functions; 16573. SP305-8.
- Masking noise; Siren; Sound power level; Sound pressure level; Automobile; Destructive interference; Directivity; Emergency vehicle; Insertion loss; 14958. SP305-7.
- Masks; Sputtering; Substrates; Thin films; Evaporation; Magnetic retention; 15231. SP305-7.
- Masonry; Masonry research; Progressive collapse; Abnormal loading; Building; Gas explosion; Load-bearing masonry; Load-bearing walls; NBSIR 74-526. SP305-7.
- Masonry; Masonry walls; Mortar; Slenderness ratio; Standard Stiffness; Structural stability; Walls; Brick; Buckling; Composite walls; Compressive strength; Concrete block; Constitutive relations; Flexural strength; BSS73. SP305-8.
- Masonry; Mobile homes; Roofs; Structural engineering; Wind load; Anchorage; Building performance; Glazing; Hailstorm; TN558. SP305-3.
- Masonry; Modified mortars; Compressive strength of clay masonry; Flexural strength of clay masonry; High strength mortars; Improved mortars; 11315. SP305-2.
- Masonry; Moments; Slenderness ratio; Stability; Structural engineering; Walls; Bricks; Buckling; Deflection; Load (forces); 12227. SP305-3.
- Masonry; Moments; Slenderness ratio; Stability; Structural engineering; Walls; Bricks; Buckling; Deflection; Load (forces); 15507. SP305-7.
- Masonry; Mortar; Slenderness effects; Standards; Structural stability; Walls; Brick; Cavity walls; Composite walls; Compressive strength; Concrete block; Flexural strength; BSS3. SP305-3.
- Masonry; Mortars (materials); Portland cement; Testing; Wall (lime dolomitic); 15992. SP305-8.
- Masonry; Mortars (materials); Walls; Brick; Dolomitic mineral; 15582. SP305-7.
- Masonry; Performance criteria; Waterproofing materials; Waterproofing materials; Accelerated weathering; Durability; waterproofing materials; TN883. SP305-7.
- Masonry; Research; Reinforced masonry; Structural engineering; Walls; Bricks; Building codes; Buildings; Concrete blocks; 14107. SP305-6.
- Masonry; Section cracking; Stability; Stress distribution; Unreinforced concrete; Buckling; Compression members, concrete; Deflection; Equilibrium; Load eccentricity; 12298. SP305-3.
- Masonry; Shear strength; Shear test; Shear walls; Stress distribution; Stresses; Structural engineering; Brick; Failure theories; NBSIR 75-703. SP305-7.

asonry; Stability; Stress distribution; Structural engineering; Buckling; Compression members; Concrete; Cracking; Deflection; Eccentricity; Equilibrium; Loads (forces); 15514. SP305-7.

asonry; Standards; Structural design; Codes; 15404. SP305-7.

asonry building; Dynamic model; Environmental chamber experiment; Heating and cooling load computer program; Heating load; 16092. SP305-8.

asonry construction; Precast concrete construction; Progressive collapse; Structural connection; Structural design; Wind load; Design standards; Earthquake load; 15369. SP305-7.

asonry construction; Roofs; Siding; Structural engineering; Wind; Wind damage; Wind engineering; Building codes; Design standards; TN909. SP305-8.

asonry mortar; Mortar evaluation; Mortar standard; Suction of masonry unit; Winter masonry; Fresh mortar; Interaction between masonry mortars and units; SP361, Vol. 1, pp. 687-692. SP305-4.

asonry paints; Absorbance ratio method; Bound styrene; Infrared; Insoluble styrene-butadiene copolymers; 9993. SP305-1.

asonry paints; Absorbance ratio method; Bound styrene; Infrared; Insoluble styrene-butadiene copolymers; 10160. SP305-1.

asonry paints; Styrene-butadiene resins; Absorbance ratio method; Bound styrene; Infrared; 9994. SP305-1.

asonry research; Progressive collapse; Abnormal loading; Building; Gas explosion; Load-bearing masonry; Load-bearing walls; Masonry; NBSIR 74-526. SP305-7.

asonry walls; Compressive interaction in walls; Compressive strength of walls; Flexural interaction in walls; Flexural strength of walls; High bond strength mortars; Improved mortars; 11316. SP305-2.

asonry walls; Moment magnifier effect; Slenderness effects; Structural stability; Brick walls; Combined loading; Compressive strength; Flexural strength; High bond mortar; 12869. SP305-4.

asonry walls; Mortar; Slenderness ratio; Standards; Stiffness; Structural stability; Walls; Brick; Buckling; Composite walls; Compressive strength; Concrete block; Constitutive relations; Flexural strength; Masonry; B5573. SP305-8.

asonry walls; Racking strength; Seismic loading; Shear strength; Shear wall; Stiffness; Analysis; Compressive strength; Deflection; Design; Flexural strength; NBSIR 74-520. SP305-6.

asonry walls; Reinforced concrete masonry walls; Slenderness effect; Structural stability; Buckling; Compressive strength; Concrete block walls; Elastic stability; Flexural strength; B5533. SP305-2.

ass; Mass flowmeters; Measurement; Turbine flowmeters; Volume flowmeters; Cryogenic; Flow; Liquid nitrogen; TN624. SP305-4.

ass; Mass flowmeters; Measurement; Orifice; Volume flowmeters; Vortex shedding; Angular momentum; Cryogenic; Flow; Liquid nitrogen; TN650. SP305-6.

ass; Measurement; Self-energy; Atomic beam; Electromagnetic; Electron; Hyperfine; 9996. SP305-1.

ass; Mechanisms; Nitrogen; Olefins; Rates; Spectrometry; Atoms; 9329. SP305.

ass; Meter; Metric system; Second; Standards for physical measurement; Temperature; Time; Ampere; Candela; Current; Degree Kelvin; International System of Units; Kilogram; Length; Luminous intensity; 9796. SP305-1.

ass; National Bureau of Standards; Reference methods; SI units; Length; 15678. SP305-7.

ass; Platinum; Precision; Replicate; Spark; Spectrometry; Accuracy; Circumvention; Emulsions; Homogeneity; Ions; 11847. SP305-3.

ass; Pound; Weight; Force; Kilogram; 16394. SP305-8.

Mass; Refrigeration; Volume; 1.8 to 90 K; Cost; Cryogenic; Efficiency; 11457. SP305-2.

Mass; State measurement centers; State standards; Calibration and measurement; Instruments; Length; 10085. SP305-1.

Mass; Temperature; Time; Units of measurement; Length; 10219. SP305-1.

Mass absorption coefficient derivation; Strontium 90 wall-thickness measurement gage; Thin-wall mensuration; Attenuation of betas; Beta-transmission phenomenology; Counting geometry; SP335, pp. 11-21. SP305-3.

Mass action; Non-linear search; Chemical equilibrium; Chemical reactions; Equilibrium; Gases; 12244. SP305-3.

Mass analysis; Metastable; Helium; Ion mobilities; 10149A. SP305-1.

Mass and volume flow; Volumetric proving; Flowmeter calibration; Gas density; Gas flow measurement; Gas viscosity; 13096. SP305-5.

Mass assay; MOL-ΣΣ facility; Uranium-238 capture rates; Fast reactors; Fission chambers; Fission rates; SP425, pp. 258-261. SP305-7.

Mass attenuation coefficients; Microphotometer; Optical spectrometer; Plasma torch; Platinum analysis; Preconcentration; Selenium analysis; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Sulfur analysis; TN422. SP305-1.

Mass balance; Test method; ASTM E 84; Carpets; Energy balance; Flame spread; NBSIR 75-705. SP305-7.

Mass comparison; Mass value; True mass; Weighing; Apparent mass; Buoyancy corrections; Monogr. 133. SP305-6.

Mass comparisons of 1969; Systematic and random weighing errors; Within-group variance; Between-group variance; SP335, pp. 41-45. SP305-3.

Mass defect; Nuclides; Quadrupole moment;  $q$ -values; Radiation; Absorption cross section; Magnetic moment; 13180. SP305-5.

Mass enhancement; Quasi-particle; Superconductors; Density of states; Green's function; SP323, pp. 227-231. SP305-4.

Mass enhancement; Quasi-particle; Superconductors; Density of states; Green's function; J.74A No. 4, 537-541 (1970). SP305-2.

Mass flow; Mass flowmeters; Performance results; Propellant management; Substitute fluid; Volume flow; Accuracy; Calibration; Commodity transfer; Cryogenic; Cryogenic processes; Density; Flowmeters; 9428. SP305.

Mass flow; Pressure drop; Compressible flow; Flow comparison; Fluid flow; Incompressible flow; TN356. SP305.

Mass flowmeters; Measurement; Orifice; Volume flowmeters; Vortex shedding; Angular momentum; Cryogenic; Flow; Liquid nitrogen; Mass; TN650. SP305-6.

Mass flowmeters; Measurement; Turbine flowmeters; Volume flowmeters; Cryogenic; Flow; Liquid nitrogen; Mass; TN624. SP305-4.

Mass flowmeters; Performance results; Propellant management; Substitute fluid; Volume flow; Accuracy; Calibration; Commodity transfer; Cryogenic; Cryogenic processes; Density; Flowmeters; Mass flow; 9428. SP305.

Mass formulae; Nuclei; Particle-hole energy; Quartet structure; Rearrangement; Binding energy; 12145. SP305-3.

Mass, length, and volume standards; Metrology laboratory; Model law and regulations; Technical education; U.S. AID; Calibration and testing; Ecuadorian Institute of Standardization (INEN); Field inspections; 13777. SP305-5.

Mass measurement; Density of air; 15568. SP305-7.

Mass measurement; Measurement; Measurement process; Precision; Statistical control; Uncertainty; Accuracy; Mono. 103. SP305.

Mass measurement; Random variability; Standard deviation; Systematic error; Uncertainty; 13402. SP305-5.

- Mass measurements; Metrology; Standards; State laboratories; Volume measurements; Length measurements; *SP335*, pp. 89-94. **SP305-3.**
- Mass number; Neutrons; Optical potential; *R*-matrix; Strength; Time-of-flight; Function; *14014*. **SP305-6.**
- Mass per unit area; Operation BREAKTHROUGH; *U*-value; Building classification; Building thermal mass; Building thermal performance; Building thermal time constant; Housing systems; Industrialized housing; *NBSIR 75-678*. **SP305-8.**
- Mass production; Standardization; Testing; Basic and applied research; Calibration; Instrumentation; Interchangeability of parts; *9350*. **SP305.**
- Mass separation; Physical-radiochemical separation; Activation analysis; Iodine; *13966*. **SP305-6.**
- Mass separator; Activation analysis; Cadmium; Lead; *14085*. **SP305-6.**
- Mass separator; Proton source; Solar wind simulator; Ion beam deflection; Ion optics; *SP336*, pp. 279-296. **SP305-3.**
- Mass separators; Proton sources; Solar wind; Sputtering; Ultra-high vacuum systems; Charge exchange; Charge neutralization; Ion optics; *SP336*, pp. 261-277. **SP305-3.**
- Mass spectra; Metastable molecules; Predissociation; Quantum mechanics; Resonance scattering; Theoretical; Unimolecular dissociation; Activated complex; Activated molecules; Activated state; Decay; Dissociation; High pressure rate constant; Kinetics; *9366*. **SP305.**
- Mass spectra;  $\text{NF}_3$ ;  $\text{ONF}_3$ ; Vacuum ultraviolet; Bond dissociation energies; Heats of formation; Ionization energies; *11288*. **SP305-2.**
- Mass spectra; Photoionization; Rydberg; Threshold energies; Autoionization; 1,2-dideuteroethylene; Ethylene; *9281*. **SP305.**
- Mass spectra; Photoionization; Unimolecular reactions; Energy transfer; Hydrocarbons; Ionic fragmentation; *14491*. **SP305-6.**
- Mass spectra; Photoionization; Vacuum uv; Bond dissociation energies; Fluorine; Heats of formation; Hydrogen fluoride; Ionization thresholds; *12392*. **SP305-4.**
- Mass spectra; Photoionization; Vacuum ultraviolet;  $\text{BF}_3$ ; Bond energies;  $\text{B}_2\text{F}_4$ ; Heats of formation; Ionization; *10901*. **SP305-2.**
- Mass spectrography; Microanalysis; Scanning electron microscopy; X rays; Electron microprobe; Ion microprobe; *11631*. **SP305-2.**
- Mass spectrometer; Aldehyde-chlorocarbon ion; Fluorocarbon ion; Halocarbon ions; Ion-cyclotron resonance; Ion-molecule reaction; Ketone; *14469*. **SP305-6.**
- Mass spectrometer; Mass spectrometric study; Photoionization of small molecules; Small molecules; Ultraviolet monochromator; Windowless vacuum; *9676*. **SP305-1.**
- Mass spectrometer; Microsample; Lead; *12432*. **SP305-4.**
- Mass spectrometer; Molecule;  $\text{NO}_2$ ;  $\text{NO}_2^+\text{N}_2\text{O}^+$ ; Photoionization; Threshold; Ultraviolet; Vacuum; Dissociation; Fragment ions; Ionization; *J71A5-467*, 371-378 (1967). **SP305.**
- Mass spectrometer; Monochromator; Photoionization;  $\text{C}_2\text{D}_2$ ;  $\text{C}_2\text{H}_2$ ;  $\text{C}_2\text{D}_2^+$ ;  $\text{C}_2\text{H}^+$ ;  $\text{C}_2\text{D}^+$ ; *9589*. **SP305-1.**
- Mass spectrometer; O atoms; Spectrometric study; Atoms; *9784*. **SP305-1.**
- Mass spectrometer; Photoionization; Radicals; Rydberg levels; Vacuum monochromators; Autoionization; Electronic; Excited states;  $\text{H}_2\text{O}^+$ ;  $\text{NH}_3^+$ ;  $\text{NH}_2^+$ ;  $\text{OH}^+$  ions; Heats of formation; *J70A6-417*, 459-463 (1966). **SP305.**
- Mass spectrometer; Photoionization; Rydberg levels; Sulfurhexafluoride; Threshold energy; Electronically excited state; *9683*. **SP305-1.**
- Mass spectrometer; Photoionization; Rydberg levels; Vacuum uv monochromator; Autoionization;  $\text{BrCN}$ ;  $\text{C}_2\text{N}_2$ ;  $\text{ClCN}$ ;  $\text{FCN}$ ; Heats of formation;  $\text{ICN}$ ; *10338*. **SP305-1.**
- Mass spectrometer; Photoionization;  $\text{SO}_2$ ; Vacuum ultraviolet; Dissociation; Heats of formation;  $\text{H}_2\text{S}$ ; Ionization; *109*. **SP305-2.**
- Mass spectrometer; Product ions; Ethane; Gas phase kinetic-molecule reactions; *15111*. **SP305-7.**
- Mass spectrometer leak detector; Mechanical pump; Shaft seal; Closed pumping system;  $\text{He}^3\text{-He}^3$  dilution refrigerator; *122*. **SP305-3.**
- Mass spectrometric; Photoionization; Vacuum ultraviolet;  $\text{C}_2\text{F}_6$ ;  $\text{C}_2\text{F}_4$ ;  $\text{C}_2\text{F}_2$ ;  $\text{CF}_3\text{H}$ ;  $\text{CF}_3\text{Cl}$ ;  $\text{CF}_3\text{Br}$ ;  $\text{CF}_3\text{I}$ ; *J72A No. 479-485* (1968). **SP305-1.**
- Mass spectrometric analysis; Air analysis; Carbon dioxide; *10485*. **SP305-1.**
- Mass spectrometric atmosphere analysis; Atmospheric carbon dioxide; Carbon dioxide; Gas analysis; *10657*. **SP305-1.**
- Mass spectrometric gas analysis; Microchemical analysis; Polarographic analysis; Standard reference materials, analysis; Stoichiometry; Atomic weights; Coulometric analysis; *10403*. **SP305.**
- Mass spectrometric gas analysis; Microchemical analysis; N point potentiometry; Polarographic analysis; Standard reference materials, analysis; Coulometric analysis; Gas analysis; *TN425*. **SP305.**
- Mass spectrometric study; Photoionization of small molecules; Small molecules; Ultraviolet monochromator; Windowless vacuum; Mass spectrometer; *9676*. **SP305-1.**
- Mass spectrometry; Absolute rates; Assay standards; Boron; Coulometry; Isotopic standards; *SP260-17*. **SP305-2.**
- Mass spectrometry; Adiabatic expansion; Hydrogen peroxide; *13159*. **SP305-5.**
- Mass spectrometry; Anodic deposition; Isotopic analysis; *Le 13616*. **SP305-5.**
- Mass spectrometry; Antimony trihalides; Flame inhibition; Flames; *13568*. **SP305-5.**
- Mass spectrometry; Chemical kinetics; Information retrieval; *9734*. **SP305-1.**
- Mass spectrometry; Cumulative yields; Delayed-neutrons; Fission products; Half-lives; Independent yields; *SP425*, pp. 40-404. **SP305-7.**
- Mass spectrometry; Flame inhibition; Flames;  $\text{HO}_2$ ; *144*. **SP305-6.**
- Mass spectrometry; Instrumentation; Procedures; Isotopic analysis; *TN277*. **SP305.**
- Mass spectrometry; Measurement system; Spectroscopy; Standards; Measurements; Thermochemistry; Calorimetry; Chemical energy; Chemical thermodynamic data; Energy scales (chemical); Equilibrium measurements; *15450*. **SP305-7.**
- Mass spectrometry; Mechanism; Review; Atomic; Chemical kinetics; Free radicals; *12402*. **SP305-4.**
- Mass spectrometry; Mechanisms; Rate constant; Atomic oxygen; Ethylene; Formaldehyde; Kinetics; *10982*. **SP305-2.**
- Mass spectrometry; Mercaptans; Alcohols; Alkyl halides; Chemical ionization; Ion-molecule reactions; *14490*. **SP305-6.**
- Mass spectrometry; Mercaptans; Alcohols; Alkyl halides; Chemical ionization; Ion-molecule reactions; *14896*. **SP305-7.**
- Mass spectrometry; Metal alkyls; Photoionization; Heats of formation; Ionization thresholds; *12448*. **SP305-4.**
- Mass spectrometry; Methyl; Methylene; Photoionization; Radicals; Vacuum ultraviolet; Enthalpy of formation; Ions; *1535*. **SP305-7.**
- Mass spectrometry; Methyl cyclopentene; Photoionization; Vacuum ultraviolet; Cyclopentene; Ion-molecule reactions; *14488*. **SP305-6.**
- Mass spectrometry; Methyl halides; Vacuum ultraviolet spectroscopy; Dissociation energies;  $\text{HCl}$ ; Ionization; *J72A No. 281-293* (1968). **SP305-1.**



- lass spectrometry; Microanalysis; Spark; X-ray spectrometry; Electron microprobe; Emission spectrometry; Laser; 10397. **SP305-1.**
- lass spectrometry; Molecular beam; Phase spectroscopy; Vibrational energy transfer; Infrared laser; Laser chemistry; 14397. **SP305-6.**
- lass spectrometry; Molecular ionization; Photoionization; Vacuum ultraviolet; Chlorine monofluoride; Dissociative ionization; Fluorine; Heats of formation; Hot bands; Hydrogen fluoride; Ion pairs; 12390. **SP305-4.**
- lass spectrometry; Molecular ionization; Photoionization; Bromine; Hot-bands; 12393. **SP305-4.**
- lass spectrometry; Molecular ionization; Photoionization; Vacuum ultraviolet; Chlorine monofluoride; Dissociative ionization; Fluorine; Heats of formation; Hot bands; Hydrogen fluoride; Ion pairs; 12148. **SP305-3.**
- lass spectrometry; Molten salt halides; Thermodynamics; Complex molecules; 12280. **SP305-3.**
- lass spectrometry; Molybdenum; Nickel; Normalization; Standard reference materials; Thermal ionization; Isotope dilution; Isotopes; 14904. **SP305-7.**
- lass spectrometry; Molybdenum; Positive and negative ions; Self-surface ionization; Electron affinity; Ion sublimation energy; 10347. **SP305-1.**
- lass spectrometry; Monochromator; Vacuum ultraviolet; Halogen molecules; Hot bands; Ionization threshold; 12446. **SP305-4.**
- lass spectrometry; Motorized criminal; Ozone puzzle; Portable transceiver batteries; RF power meter; Utilities system; Batteries; Dental materials; Industry; Integrated utilities system; *DIM/NBS* 60, No. 3, 1-24 (1976). **SP305-8.**
- lass spectrometry; Negative ions; Photodetachment; Tunable dye laser; Intracavity technique; Ion cyclotron resonance; 14770. **SP305-7.**
- lass spectrometry; Negative ions; Photodetachment; Spin-orbit coupling; Tunable dye laser; Ion cyclotron resonance; 14771. **SP305-7.**
- lass spectrometry; Neopentane; Photoionization; Proton affinity; Rate constants; Ion molecule reactions; *J.75A No. 5*, 487-493 (1971). **SP305-3.**
- lass spectrometry; Nickel; Surface reaction; Fluorine; High temperature; Kinetics; 9374. **SP305.**
- lass spectrometry;  $\text{Ni}(\text{CO})_4$ ; Vacuum ultraviolet spectroscopy; Dissociation energies;  $\text{Fe}(\text{CO})_5$ ; Heats of formation; Ionization; *J.74A No. 2*, 233-238 (1970). **SP305-2.**
- lass spectrometry; Nitric oxide; Photoionization; Rydberg series; Autoionization; 10011. **SP305-1.**
- lass spectrometry; Nitrogen dioxide; Oelfin; Ozone; Rate constant; Kinetics; 14956. **SP305-7.**
- lass spectrometry; Nitrous oxide; Photoionization radiolysis; Ion clustering; Ion-molecule reactions; 14482. **SP305-6.**
- lass spectrometry; Nucleophilic substitution;  $^{15}\text{N}$ -trifluoroacetyl derivative; Derivatives of 6-amino-6-deoxy-D-glucose-6- $^{15}\text{N}$ ; Differential scanning calorimetry;  $^{15}\text{N}$ -labeled amino sugars; Infrared isotopic shift; 12443. **SP305-4.**
- lass spectrometry;  $\text{N}_2\text{O}$ ; Rate constant; Vapor phase; Ion-molecule reaction; 14464. **SP305-6.**
- lass spectrometry; OH; Radicals;  $\text{CH}_3$ ; Flames; H; 13672. **SP305-5.**
- lass spectrometry; Olefin; Ozone; Photochemical smog; Rate constant; Air pollution; Kinetics; 15355. **SP305-7.**
- lass spectrometry; Olefins; Rate constant; Singlet oxygen;  $\text{O}_2$   $^1\Delta_g$ ; Chemical kinetics; 13298. **SP305-5.**
- lass spectrometry; Optical spectroscopy; Phosphorus; Polyester; Flame retardancy; *NBSIR* 75-741. **SP305-7.**
- lass spectrometry; Optical spectroscopy; Phosphorus; Polyester; Flame retardancy; 16037. **SP305-8.**
- lass spectrometry; Ores; Archaeology; Isotopic ratios; Laurion; Lead; 14918. **SP305-7.**
- Mass spectrometry; Organic compounds; Rate constant; Atomic oxygen; Bromoalkane; Chemical kinetics; Chloroalkane; 11324. **SP305-2.**
- Mass spectrometry; Organic compounds; Rate constant; Alkane; Atomic oxygen; Chemical kinetics; 11325. **SP305-2.**
- Mass spectrometry; Organic trace analysis; Qualitative accuracy; Quality control; Quantitative accuracy; Reference materials; Sampling; Concentration; Detectors; Extraction; Gas chromatography; Isolation and clean-up; *SP422*, pp. 9-34 (Aug. 1976). **SP305-8.**
- Mass spectrometry; Oxygen; Reaction kinetics; Tungsten; Chlorine; High temperature; 11061. **SP305-2.**
- Mass spectrometry; Ozone; Propene; Rate constant; Air pollution; Ethene; Kinetics; 15234. **SP305-7.**
- Mass spectrometry;  $\text{O}_2$ ; Photoionization; Radicals; Rydberg series; Vacuum ultraviolet; Autoionization;  $\text{CO}_2$ ;  $\text{COS}$ ;  $\text{CS}_2$ ; Electronic; Excited states; Heats of formation; Ionization thresholds; Ions; 10274. **SP305-1.**
- Mass spectrometry; Pelletizing; Precision; Relative sensitivity; Sample homogeneity; Solids; Statistics; Background; Electrical detection; Electrical discharge; Ion probe; Ion sensitive plates; 10814. **SP305-1.**
- Mass spectrometry; Photoionization; Proton transfer reactions; Cycloalkanes; Ion-molecule reactions; Isomerization; 13176. **SP305-5.**
- Mass spectrometry; Photoionization; Rydberg series; Vacuum ultraviolet; Franck-Condon factors; 13293. **SP305-5.**
- Mass spectrometry; Photoionization; Proton affinity; Radiolysis; Gas-phase kinetics; Ion-molecule reactions; *J.76A No. 6*, 655-659 (1972). **SP305-4.**
- Mass spectrometry; Photoionization; Vacuum ultraviolet; Dissociation energy; Fluorine; 12391. **SP305-4.**
- Mass spectrometry; Photoionization; Rate constants; Thermal energy; Vibrational energy; Ammonia; 12999. **SP305-4.**
- Mass spectrometry; Photoionization; Rate coefficient; Vapor phase; Alkanes; Ion-molecule reactions; 13003. **SP305-4.**
- Mass spectrometry; Photoionization; Rate constants; Alkanes; Excited states; Ion-molecule reactions; 11829. **SP305-3.**
- Mass spectrometry; Photoionization; Protonated dimer ions; Alkane dimer ions; Ethane; Ion-molecule reactions; 11830. **SP305-3.**
- Mass spectrometry; Photoionization; Proton transfer; Water; Hydrocarbons; Ion-molecule reactions; 11927. **SP305-3.**
- Mass spectrometry; Photoionization; Vacuum ultraviolet; Chlorine monofluoride; Dissociation energy; Ionization energy; 12064. **SP305-3.**
- Mass spectrometry; Photoionization; Propane; Radiation chemistry; Ion-molecule reaction; Kinetics; 12175. **SP305-3.**
- Mass spectrometry; Photoionization; Rate constants; Gas phase; Hydrocarbons; Ion-molecule reactions; *J.75A No. 3*, 147-153 (1971). **SP305-3.**
- Mass spectrometry; Photoionization; Rate constants; Amines; Collisional stabilization; Ionization energy effect; 14463. **SP305-6.**
- Mass spectrometry; Photoionization; Radiolysis; Rate constants; Alkyl halides; Ion-molecule reactions; 14465. **SP305-6.**
- Mass spectrometry; Photoionization; Ion clusters; Ion-molecule reactions; Ionosphere; Martian atmosphere; 14483. **SP305-6.**
- Mass spectrometry; Photoionization; Rate constants; Fluorocarbons; Heats of formation; Ion-molecule reactions; *J.78A No. 2*, 151-156 (1974). **SP305-6.**
- Mass spectrometry; Photoionization; Reaction kinetics; Vapor phase; Cyclobutane; Ion-molecule reactions; 11603. **SP305-2.**
- Mass spectrometry; Photoionization; Rate constants; Reaction mechanisms; Vinyl halides; Ion-molecule reactions; 14844. **SP305-7.**
- Mass spectrometry; Photoionization; Rate constants; Gas phase; Hydrocarbons; Kinetics; 15850. **SP305-8.**



- Mass spectrometry; Photoionization; Propane; Propane- $d_2$ ; Propane- $d_6$ ; Propane- $d_8$ ; Threshold photoelectron spectroscopy; Coincidence; 16590. SP305-8.
- Mass spectrometry; Polarography; Spectrochemical analysis; Thermal analysis; Wet chemistry; X-ray fluorescence; Activation analysis; Characterization; Chemical composition; Chromatographic analysis; Coulometry; Electron probe microanalysis; Ion-selective electrodes; 15165. SP305-7.
- Mass spectrometry; Polymer; Thermal; 8-hydroxyquinoline; Bis(8-hydroxy-5-quinolyl)methane; Coordination; Copper; Decomposition; Infrared spectrophotometry; Ligand; 11261. SP305-2.
- Mass spectrometry; Positive and negative atomic ions; Rhenium; Self-surface ionization; Tungsten; Electron affinity; Ion sublimation energy; 10181. SP305-1.
- Mass spectrometry; Positive and negative surface ionization; Electron affinity; Lithium; 11447. SP305-2.
- Mass spectrometry; Positive and negative ions; Sublimation; Transition metals; *J.74A No. 1*, 37-43 (1970). SP305-2.
- Mass spectrometry; Precision; Quantitative analysis; Solids; Spark source; Trace elements; Fluctuations; Homogeneity; Ion sensitive emulsion; 12127. SP305-3.
- Mass spectrometry; Procedures; Instrumentation; Isotopic analyses; *TN426*. SP305.
- Mass spectrometry; Procedures; Instrumentation; Isotopic analyses; *TN456*. SP305-1.
- Mass spectrometry; Procedures; Instrumentation; Isotope dilution; Isotopic analyses; *TN506*. SP305-2.
- Mass spectrometry; Procedures; Instrumentation; Isotopic analysis; *TN546*. SP305-2.
- Mass spectrometry; Propulsion applications; Thermodynamic measurements; Transpiration equilibria; Absorption spectrometry; Calorimetry; 12395. SP305-4.
- Mass spectrometry; Quartz crystal oscillator mass monitors; Radiometry; Reflectometry; Space environment simulation chambers; Contamination collection units; Gas-liquid chromatography; Infrared spectrometry; *SP336*, pp. 25-49. SP305-3.
- Mass spectrometry; Radiation chemistry; Rare gases; Cross sections; Excited states; Ionization; 14832. SP305-7.
- Mass spectrometry; Radicals; Flames; Laser excitation; 15243. SP305-7.
- Mass spectrometry; Radicals; Vacuum ultraviolet;  $\text{BCl}_3$ ; Bond dissociation energies;  $\text{B}_2\text{Cl}_4$ ; Heats of formation; Ions; 10900. SP305-2.
- Mass spectrometry; Radiolysis; Acetone; Energy transfer; Ion-molecule reactions; 13178. SP305-5.
- Mass spectrometry; Radiolysis; Charge transfer; Deactivation; Ethane; Ion-molecule reactions; 12129. SP305-3.
- Mass spectrometry; Radiolysis; Cyclohexane; Effects impurity; Ion-molecule reactions; 11928. SP305-3.
- Mass spectrometry; Rate coefficients; Chemical kinetics; Data evaluation; Gas phase; Hydrocarbons; Ion-molecule reactions; *JPCRD 5*, No. 4, 1123-1146 (1976). SP305-8.
- Mass spectrometry; Rate constant; Active nitrogen; Atomic nitrogen; Carbon dioxide; 10654. SP305-1.
- Mass spectrometry; Reaction enthalpy; Sublimation enthalpy; Beryllium difluoride; Beryllium oxide; High temperatures; *J.72A No. 1*, 75-80 (1968). SP305-1.
- Mass spectrometry; Relative abundance ratios; Absolute abundance ratios; Apollo 14; Isotope dilution analyses; Lunar samples; 13090. SP305-5.
- Mass spectrometry; Residual gas analysis computer simulation; Residual gas analysis data reduction; Space vacuum system gas; *SP336*, pp. 151-164. SP305-3.
- Mass spectrometry; Rubidium; Standards; Strontium; Trace analysis; Isotope dilution; 13862. SP305-6.
- Mass spectrometry; Semiconductor grade silicon; Trichlorosilane; Boron measurements; *SP422*, pp. 709-714 (Aug. 1976). SP305-8.
- Mass spectrometry; Serum; Accurate; Blood; Concentration Determination; Dilution; Electrolyte; Isotope; *SP422*, pp. 951-960 (Aug. 1976). SP305-8.
- Mass spectrometry; Serum; Calcium; Isotopes; 13089. SP305-5.
- Mass spectrometry; Silicate glass standard materials; Standard reference materials; Thallium; Thorium; Uranium; Isotope dilution; Lead; 13313. SP305-5.
- Mass spectrometry; Sulfur nitride; Tetracyanoquinodimethane; Tetrasulfur tetranitride; Tetrathiafulvalene; Vaporization; Chemical ionization mass spectrometry; 16422. SP305-8.
- Mass spectrometry; Surface reaction; Tantalum; Activation energy; Carbon monoxide; High temperature; 11115. SP305-2.
- Mass spectrometry; Threshold energies; Vacuum ultraviolet  $\text{CH}_3\text{CN}$ ; Dissociation; HCN; Heats of formation; Ionization; 10902. SP305-2.
- Mass spectrometry; Triple-filament; Isotopes; Lead; 9621. SP305-1.
- Mass spectrometry; Vacuum ultraviolet; Ethynyl ion; Heat of formation; Ionization threshold; 13716. SP305-5.
- Mass spectrometry ionization sources; Organic molecule imaging; Thin films; Whiskers; Field-ion microscopy; 10685. SP305-1.
- Mass spectrophotometry; Matrix isolated; Oxides of uranium; Infrared spectra; *J.78A No. 3*, 421-424 (1974). SP305-6.
- Mass spectroscopy; Mechanical properties; Outgassing; Pressure measurements; Rock mechanics; Space environment simulation; Ultrahigh vacuum; Anisotropy; Compression test; *SP336*, pp. 209-223. SP305-3.
- Mass spectroscopy; NBS Standard Reference Material; Orchard leaves; Trace mercury; Agriculture; Environment; Isotope dilution; 14789. SP305-7.
- Mass spectroscopy; N.M.R. spectroscopy; 6-amino-6-deoxy-D-glucose- $^{15}\text{N}$ ;  $^{15}\text{N}$ -labeled aminosugars; 11275. SP305-2.
- Mass spectroscopy; Photographic photometry; Plasma jet Preconcentration; Pulse height analyzer; Spectrochemical analysis; Spectroscopy; Standard reference materials; Time shared computer; X-ray spectroscopy; Analysis; Arc temperature; *TN401*. SP305.
- Mass standards; NPL of India; Designing to specification; Fabrication of balances; Legal metrology; *SP335*, pp. 121-124. SP305-3.
- Mass storage; NIRA; Photonuclear Data Center; Central computer; Computer programs; Data manipulation; Digital data; *TN903*. SP305-8.
- Mass transfer; Adsorbent-reaction; Adsorption; Heat transfer; Isotherm; Kinetics; 11898. SP305-3.
- Mass transfer; Radiation; Reaction kinetics; Thermal properties; Combustion; Conduction; Diffusion flames; Flame spread; Heat transfer; Integral equations; 11285. SP305-2.
- Mass transfer; Spacecraft; Contamination; *SP336*, pp. 79-103. SP305-3.
- Mass transfer number; Opposed flow diffusion flame; Oxygen index; Fire retardant mechanisms; Fire retardant polymers; Fire retardants; *NBS-GCR-75-40*. SP305-8.
- Mass transit technology; Satisfaction assessments; Transit service features; Attitudinal survey; Bus-on-freeway; Exclusive bus lanes; Importance assessments; Interior bus features; 13644. SP305-5.
- Mass transport; Ac impedance; Calcium apatites; Calcium hydroxide; Crystal growth; Electrolysis; Interfacial polarization; Ionic conduction; *NBSIR 73-404*. SP305-6.
- Mass transport; Ac impedance; Calcium apatites; Calcium hydroxide; Crystal growth; Electrolysis; Interfacial polarization; Ionic conduction; *NBSIR 74-628*. SP305-7.
- Mass transport; Materials properties; Mechanical relaxation; Oxides; Polymers; Pyrolytic graphite; Transition metal borides; Copper; Creep; Crystal growth; Diffusion; Enthalpy; Evaporation; Fracture; Glass band structure; High temperature materials; *TN494*. SP305-1.

ass transport; Materials properties; Mechanical relaxation; Metal borides; Optical properties; Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; *TNS14*. **SP305-2**.  
 ass transport; Materials properties; Metal properties; Optical properties; Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; *TNS31*. **SP305-2**.  
 ass transport; Neodymium glass; Optical properties; Opto-elastic properties; Oxides; Ruby; Rutile; Titanium; Titanium dioxide; Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical properties; Chemical analysis; Chromium ions; *TNS65*. **SP305-3**.  
 ass transport; Nonstoichiometry; Oxides; Ceria; Crystal defects; Diffusion; *SP364*, pp. 353-365. **SP305-4**.  
 ass transport; Nucleation theory; Phase transitions; Growth of droplets; Kinetic theory of gases; Liquid-vapor phase transitions; *13105*. **SP305-5**.  
 ass transport; Oxides; Stoichiometry; Crystal defects; Diffusion; Ionic conductivity; *SP296*. **SP305-1**.  
 ass transport; Point defects; Alkaline earth fluorides;  $\text{CaF}_2$ ; Clusters; Defect models;  $\text{GdF}_3$ ; *13328*. **SP305-5**.  
 ass transport; Solid electrolyte; Beta alumina; Diffusion; Electrochemical cell; Electrochemical transducer; Ionic conductivity; *SP364*, pp. 139-154. **SP305-4**.  
 ass transportation; Telephone systems; Computers; Information systems; *NBSIR 75-665*. **SP305-7**.  
 ass value; True mass; Weighting; Apparent mass; Buoyancy corrections; Mass comparison; *Monogr. 133*. **SP305-6**.  
 ass values; Numerical calculations; One-dimensional collisions; Oscillator force constants; Potential values; Transition probabilities vs. energy values; Translational-vibrational energy transfer; Atom-diatom transitions; Data tables; *NBS-OSRDB-70-3 (AD705110)*. **SP305-3**.  
 ass vs. weight; Weight; Weightlessness; Weight vs. mass; Free fall; Gravity; *13035*. **SP305-4**.  
 ass yield; Prompt neutron; Scission point; Statistical theory; Actinide nuclide; Fast-neutron-induced fission; Fission; Fission fragment; Fission product; Kinetic energy; *SP425*, pp. 342-345. **SP305-7**.  
 ass-limiting two-phase flow; Nozzle; Tube; *9693*. **SP305-1**.  
 ass-loading; Resonances; Tip rotary inertia; Transmissibility; Vacuum; Air; Antiresonances; Cantilever beam; Damping; *11092*. **SP305-2**.  
 ass-spectrometry; Microcalorimetry; Ni-63 neutron capture cross-section; Radioactivity standards; Half-life; *12567*. **SP305-4**.  
 aster equation; Moments; Probability distributions; Relaxation; Transition probabilities; Exponential relaxation; *9527*. **SP305**.  
 aster equation; Nonequilibrium processes; Nonlinear relaxation; Relaxation processes; Stochastic processes; Harmonic oscillators; *9402*. **SP305**.  
 aster equation; Relaxation processes; Stochastic processes; First passage times; Fokker-Planck equation; Markov processes; *10291*. **SP305-1**.  
 aster standard; Saturation curves; Secondary standard; Signal level calibration; Standard reference materials; Unrecorded reference; Average signal peak level; Computer amplitude reference; Magnetic tape; *SP260-29*. **SP305-3**.  
 aster standard; Saturation curves; Secondary standard; Signal level calibration; Standard reference materials; Unrecorded reference; Average peak signal level; Computer amplitude reference; Magnetic tape; *SP260-18*. **SP305-1**.  
 aster; Micro space; Redundant cuing; Sensory acuity; Sensory deterioration; Spatial sets; User needs; Age and perception; Complexity; Home range; Life cycle; Life space; Loss

continuum; Macro space; *SP361*, Vol. 1, pp. 57-62. **SP305-4**.

Masts; Structural engineering; Towers; Vortex shedding; Wind loads; Aeroelasticity; Buildings; Circular cylinders; Gust factors; *BSS30*, pp. 115-128. **SP305-3**.  
 Matches; Burns; Fabric fires; Fire injuries; Flammable fabrics; Ignition hazards; Ignition sources; Lighters; *NBS-GCR-74-32*. **SP305-8**.  
 Matches; Fabric fires; FFACTS; Fire injuries; Flammable fabrics; Ignition sources; Lighters; *TN750*. **SP305-4**.  
 Matches; Mattresses; Sleepwear; Standards; Upholstered furniture; Cigarettes; Education; Fabric; Fire; Flammability; Hazard; Ignition source; Kitchen ranges; *SP411*, pp. 1-4. **SP305-6**.  
 Matching; Probability master samples; Propagation of error computations; Statistical standards; Automatic data processing equipment; Confidentiality audits; Disaggregation; Disclosure criteria; Federal statistical system; Inherent computability; *9247*. **SP305**.  
 Matching; Probability master samples; Propagation of error computations; Statistical standards; Automatic data processing equipment; Disaggregation; Federal statistical system; Inherent computability; *9742*. **SP305-1**.  
 Material; Purification of research quantities of materials; Research quantities; Distillation; *9884*. **SP305-1**.  
 Material analysis; X-ray diffraction; X-ray fluorescence; Applied x-ray analysis; Conference report; *12472*. **SP305-4**.  
 Material balance accounting; Nuclear materials safeguards; Process losses; *16263*. **SP305-8**.  
 Material detection; Nuclear quadrupole resonance; Piezometry; Thermometry; Applications; *15475*. **SP305-7**.  
 Material deterioration; Mechanical failure; Mechanical integrity; Mechanical reliability; Performance envelope; Predicting product reliability; Design engineering; *SP423*, pp. 199-208 (Apr. 1976). **SP305-8**.  
 Material ignitability; Performance criteria; Room fires; Smoke; Wood crib; Buildings; Fire growth; Flame spread; Heat release; Interior linings; *TN846*. **SP305-6**.  
 Material ignitability; Performance criteria; Room fires; Smoke; Wood crib; Buildings; Fire growth; Flame spread; Heat release; Interior linings; *TN879*. **SP305-7**.  
 Material ignitability; Room fires; Smoke; Upholstery; Waste receptacle; Wood crib; Buildings; Fire intensity; Flame spread; Flames; Furnishings; Heat release; Interior linings; *SP411*, 125-138. **SP305-6**.  
 Material performance; Predictive testing; Structures; Combined environments; Components; *SP336*, pp. 403-404. **SP305-3**.  
 Material prescriptions; Performance concept; Plastics; Property tests; Building materials; Concrete; Functions in building; *SP361*, Vol. 1, pp. 733-740. **SP305-4**.  
 Material properties; Morphological research; Performance analysis; Reinforced concrete; Reinforcement; Concrete; Corrosion; Durability; *SP361*, Vol. 1, pp. 725-732. **SP305-4**.  
 Material properties; Photometry; Projectors; Radiance; Radiometry; Reflectometry; Emissivity; Flashing light; Flux measurement; Irradiance; *SP300*, Vol. 7. **SP305-3**.  
 Material properties; Physical properties; Cement; Chemical composition; Concrete; Durability; *BSS36*. **SP305-3**.  
 Material properties; Referral centers; Sources of data; Data centers; Data tabulations; Evaluated data; *16007*. **SP305-8**.  
 Material removal parameter; Principles of grinding; Surface finish in grinding; Surface integrity in ground surfaces; Wheel dressing; Abrasive wear parameter; Grinding; *SP348*, pp. 59-71. **SP305-4**.  
 Material removal rate; Specific energy; Wheel structure; Abrasive machining; Brittle chip formation; Brittle fracture; Chip accommodation; Glass; Glass-ceramics; Machining and grinding technical ceramics; *SP348*, pp. 53-57. **SP305-4**.  
 Material structure; Optical properties; Scattering; Electron energy loss; Germanium; *15387*. **SP305-7**.

- Material symmetry; Mechanical properties; Rheology; Scalar potential; Strain-energy; Thermodynamics; Viscoelasticity; Constitutive equation; Continuum mechanics; Elasticity; Isotropy; *14689. SP305-6.*
- Material transport; Thickening; Volume change; Annealing; Crystalline polymers; *14754. SP305-7.*
- Material variability; Electrical resistance; Electrical resistance temperature coefficient; Heater wire; *13042. SP305-4.*
- Material variability; Moisture conditioning; Operation BREAKTHROUGH; Paper honeycomb; Structural sandwich; Sustained load; Accelerated aging; Adhesive bond; Ductility; Flexural shear; Housing systems; Local buckling; *B5551. SP305-6.*
- Material variability; Nickel alloy; Stainless steels; Statistics; Aluminum alloys; Cryogenic; Electrical resistivity; Low temperature; *13215. SP305-5.*
- Material/product/process improvements; Non-inventions; Quasi-property; Right to royalties; Supplementary system; Traditional property-rights; Unrestricted copying; Useful service; Anti-trust violations; Better products; Copiers; Developer-producer's; *9780. SP305-1.*
- Materials; Flash point; Flame spread; Impact resistance; Lead paint poisoning; Materials; Performance; Properties; Scratch resistance; Smoke generation; Toxic combustion products; Toxicity; Washability; Water vapor permeance; Abrasion; Adhesion; *TN808. SP305-5.*
- Materials; Meaningful measurements; Measurement; Reference materials; SRM's; Standard materials; Standard reference materials; Standards; Certification; Certified reference materials; *SP408. SP305-7.*
- Materials; Mechanical properties; Review, thermal properties; Cryogenics; *13538. SP305-8.*
- Materials; Mechanisms; Nondestructive testing; Testing; Accelerated aging; Aging of buildings; Building components; Climate; Criteria; Deterioration; Durability; *13637. SP305-5.*
- Materials; Metals; Oxygen; Safety; Survey; Compatibility; *14215. SP305-6.*
- Materials; Metals; Polymers; Specifications standards; American Dental Association; Casting; Ceramic materials; Certified products; Dental; Instruments; *9978. SP305-1.*
- Materials; Minerals; Ceramics; Educational priorities; Energy; Engineer-scientist; Environmental quality; *16156. SP305-8.*
- Materials; Mössbauer; Spectrometer; Structural analysis; *11655. SP305-2.*
- Materials; NBS, GSA experiment; Optical spectra; Plastic pipes; Thermal conductivity; Computer; Cryogenic; Cryptography; Data; Energy labeling; Energy needs; Fluid safety; *DIM/NBS 59, No. 9, 193-216 (1975). SP305-7.*
- Materials; Neutron; Properties; Reaction; Scattering; Structure; Transport; Diffraction; Inelastic; Interaction; *10553. SP305-1.*
- Materials; Outside diameter; Pipe; Polyethylene (PE); Schedule size (40 and 80); Dimensions; *PS12-69. SP305-2.*
- Materials; Performance; Portland cement; Structural performance; Aggregates; Cement; Concrete; Concrete quality; *SP361, Vol. 1, pp. 719-724. SP305-4.*
- Materials; Performance; Price; User; Value; Building; Competitive market; Construction; Cost; Evaluation; *SP361, Vol. 1, pp. 141-148. SP305-4.*
- Materials; Performance; Properties; Scratch resistance; Smoke generation; Toxic combustion products; Toxicity; Washability; Water vapor permeance; Abrasion; Adhesion; Colorfastness; Covering; Materials; Flash point; Flame spread; *TN808. SP305-5.*
- Materials; Performance; Tests; Agrément; Building components; Durability; *SP361, Vol. 1, pp. 165-170. SP305-4.*
- Materials; Performance evaluation; Performance requirements; User requirements; Buildings; Components; Design procedures; Experience in use; *SP361. Volume 1. SP305-4.*
- Materials; Performance evaluation; Pore size distribution; Porosity; Specific surface; *SP361, Vol. 1, pp. 669-670. SP305-4.*
- Materials; Performance evaluation; Performance requirements; User requirements; Buildings; Components; Design procedures; Experience in use; *SP361. Volume 2. SP305-4.*
- Materials; Performance requirements; Selection; Building; Classification; Comparison; Elements; *SP361, Vol. 1, pp. 50-518. SP305-4.*
- Materials; Pipe; Polyethylene (PE); Pressure; Standard dimension ratio (SDR); Inside diameter dimensions; *PS11-4. SP305-2.*
- Materials; Pipe; Polyethylene plastic; Schedule 40; Dimensions; Inside diameter; *PS10-69. SP305-2.*
- Materials; Pipe; Poly(vinyl chloride) (PVC); Pressure; Pressurizing (PR); Schedule 40, 80, and 120 sizes; Dimensions; Hydrostatic design stress; *PS21-70, SP305-2.*
- Materials; Pipe; Poly(vinyl chloride) (PVC); Pressure; Pressurizing (PR); Standard dimension ratio (SDR); Threads; Cl; T; Dimensions; Hydrostatic design stress; *PS22-70. SP305-2.*
- Materials; Production; Solar; Storage; Transmission; Transportation; Utilities; Conservation; Conversion; Cost; Cryogenic Economics; Embrittlement; Energy; Hydrogen; Industrial; Instrumentation; Liquefaction; Literature; *SP419. SP305-7.*
- Materials; Refrigeration; Superconducting magnets; Suspension; Transportation; Urban transportation; Fatigue life; Magnetic properties; *13954. SP305-6.*
- Materials; Resistivity measurement; Silicon doping profile; Spreading resistance measurement; Surface damage; Beveling; Diamond grinding; Laser bevel angle measurement; Layer thickness determination; *SP400-10, pp. 123-133. SP305-6.*
- Materials; Restorative; Acid etch; Burnishing; Handling techniques; *14696. SP305-6.*
- Materials; Superconductors; Electronics; Low temperature; *12604. SP305-4.*
- Materials; Surface preparation; Surface refinishing; Cost analysis; Hazard elimination; Housing; Lead based paint; *1376. SP305-5.*
- Materials accountability; Measurements; Nuclear; Safeguards; Standards; Fuel; *16481. SP305-8.*
- Materials analysis; Neutron activation analysis; Contamination; Gas analysis; High purity; *SP422, pp. 759-772 (Aug. 1978). SP305-8.*
- Materials and energy conservation; Blast furnace slag; Blended cement; Fly ash; *16408. SP305-8.*
- Materials characterization; Mössbauer spectrometry; Nuclear resonance; *14818. SP305-7.*
- Materials characterization; Solid state research; Stoichiometry; Trace analysis; Analytical chemistry; Electronic materials; *SP351, pp. 19-77. SP305-4.*
- Materials conservation; Materials science; Performance concept; Building construction; Building design; Building materials; Building research; Environmental protection; International cooperation; International standards; *16027. SP305-8.*
- Materials conservation; Noise pollution; Voltage transfer; Blast experiment; Charcoal grill safety; Computer privacy at security; Computer standards proposed; Electroexplosive devices; Energy monitored; Jerry-can standard; *DIM/NBS 5, No. 7, 145-168 (1974). SP305-6.*
- Materials, dental, research; Dental education; Dental material research needs; Dental practice future; Dental research; *SP354, pp. 27-30. SP305-4.*
- Materials development; Techniques; Ceramics; Failure prediction; Fracture mechanics; *14260. SP305-6.*
- Materials evaluation; Performance specification; Rehabilitation; Renovation; Abatement; Detection; Heat-gun; Lead paint; *15591. SP305-7.*
- Materials evaluation, MHD-materials; Test procedures; High temperatures; *16174. SP305-8.*

materials failure; Night vision; Precision; Surface roughness; Art; Clinical chemistry; Fire services; High-accuracy mass spectrometry; *DIM/NBS 57*, No. 9, 201-224 (1973). **SP305-5.**

Materials fatigue data; Refrigeration; Superconducting magnets; Transportation; Levitation; Magnetic suspension; *TN635*. **SP305-5.**

Materials fatigue data; Refrigeration; Superconducting magnets; Transportation; Levitation; Magnetic suspension; *TN182*. **SP305-7.**

Materials policy; Nondestructive evaluation; Performance; Processing; Technical strategy; Design; Development; Fabrication; Life cycle costing; *15873*. **SP305-8.**

Materials processing; Perfection; Purity; Space manufacturing; Space processing; Zero-g; *NBSIR 73-402*. **SP305-6.**

Materials properties; High temperature materials; *TN447*. **SP305-1.**

Materials properties; Mechanical relaxation; Oxides; Polymers; Pyrolytic graphite; Transition metal borides; Copper; Creep; Crystal growth; Diffusion; Enthalpy; Evaporation; Fracture; Glass band structure; High temperature materials; Mass transport; *TN494*. **SP305-1.**

Materials properties; Mechanical relaxation; Metal borides; Optical properties; Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Glass; *TN531*. **SP305-2.**

Materials properties; Metal properties; Optical properties; Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Glass; *TN531*. **SP305-2.**

Materials properties; Performance testing; Contact resistance; Electrical codes; Electrical connections; Fire safety; House wiring; *BSS63*. **SP305-7.**

Materials properties; Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; *P315-1*. **SP305-1.**

Materials properties; Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; *P315-2*. **SP305-1.**

Materials properties; Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; *P315-3*. **SP305-1.**

Materials properties; Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; *P315-4*. **SP305-2.**

Materials properties; Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; *P315-5*. **SP305-2.**

Materials properties; Survey; Cryogenics; *12555*. **SP305-4.**

Materials protection; Structural failure; Basic and applied research; Economics of corrosion; Industrial design; *9889*. **SP305-1.**

Materials protection; Structural failure; Basic and applied research; Economics of corrosion; Industrial design; *9889*. **SP305-1.**

Materials purification requirements; Pulsed laser damage; Rare earth fluorides; Zinc selenide coatings; Laser antireflective coatings; *SP462*, pp. 271-278 (Dec. 1976). **SP305-8.**

Materials recovery; Natural resources; Reclamation; Conservation; *15603*. **SP305-7.**

Materials reliability; Nondestructive evaluation; *15315*. **SP305-**

Materials research; Air pollution measurements; Failure analysis; *13054*. **SP305-4.**

Materials research; Measurement challenge; Science and technology; Sea of data; Standard reference data system; Computer age; Data system; *DIM/NBS 60/Suppl.*, Anniversary Issue, 1-32 (1976). **SP305-8.**

Materials research; Measurements-standards; NBS-industry; Transfer; Benefits, industry-society; *16280*. **SP305-8.**

Materials science; Performance concept; Building construction; Building design; Building materials; Building research; Environmental protection; International cooperation; International standards; Materials conservation; *16027*. **SP305-8.**

Materials selection; Nonmetals; Rectifiers; Water treatment; Anodes; Cathodic protection; Coatings; Corrosion; Deterioration; Inhibitors; *BSS66*, pp. 42-51. **SP305-7.**

Materials structure analysis; Mössbauer effect; Spectrometer; Standards; Aerospace; Applications; *9672*. **SP305-1.**

Materials testing; Measuring instruments; Mechanical properties; Mechanical testing; Paper; Precision; Reliability; Reproducibility; Standards; Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; *11706*. **SP305-2.**

Materials testing; Nonlinear analysis (shear); Potted end fittings; Structural engineering; Tensile strength; Transversely isotropic materials; Axisymmetric analysis; Cables (ropes); Composite materials; Contour plotting; End fittings for FRP rod and rope; *15399*. **SP305-7.**

Mat-formed particleboard; Particleboard requirements; Particleboard, wood; Wood particleboard; *CS236-66*. **SP305.**

Math model; Protective headgear; Safety; Test methods; Head injury; Helmets; *NBSIR 76-1107*. **SP305-8.**

Mathematical economics; Mathematical logic; Primitivity and automatic theory; Relation, calculus; Aggregation; Automatic theory; Boolean matrices; Consolidation; DeMorgan-Pierce-Schroder relation algebra; Input-output models; Indecomposability; *10025*. **SP305-1.**

Mathematical economics; Partial differential equations; Demand; Elasticity; *J.72B No. 1, 43-60* (1968). **SP305-1.**

Mathematical foundations; Mathematics; Simulation; Simulation module; Computer programs; Computers; Computer simulation; Equations; *NBSIR 74-556*. **SP305-6.**

Mathematical function subroutines; Algorithm testing; Bit comparison testing; Computer algorithm; *13463*. **SP305-5.**

Mathematical functions; Performance tests; Automated testing; Bit comparison; FORTRAN library; Function validation; *J.77B Nos. 3 and 4, 101-110* (1973). **SP305-5.**

Mathematical functions; Performance; Standards; Testing; Validation; Algorithms; *14061*. **SP305-6.**

Mathematical induction; Minimum-length coverings; Node-covering; Trees; Helly's theorem; *J.76B Nos. 1 and 2, 39-43* (1972). **SP305-4.**

Mathematical logic; Primitivity and automatic theory; Relation, calculus; Aggregation; Automatic theory; Boolean matrices; Consolidation; DeMorgan-Pierce-Schroder relation algebra; Input-output models; Indecomposability; Markov chains; *10025*. **SP305-1.**

Mathematical model; Benefit/cost; Fish hatchery analysis; Fish hatchery management; Fish hatchery operation; *NBSIR 74-521*. **SP305-7.**

Mathematical model; Oxygen; Oxygen tension; Oxygen tension distribution; Contact lens; Contact lens motion; Diffusion; Hydrodynamics; *15208*. **SP305-7.**

Mathematical model; Predictive technique; Building system analysis; Design; Innovation; *SP361, Vol. 1*, pp. 249-253. **SP305-4.**

Mathematical model; Regulation; Strategy; Theory of games; Inspection; *J. Res. 80B No. 2, 189-236* (1976). **SP305-8.**

Mathematical model; Self pressurization; Thermal stratification; Computer program; Cryogenic; Liquid hydrogen; *14203*. **SP305-6.**



- Mathematical modeling; Models; Urban health problems; Childhood diseases; Estimation; Health problems; Lead; Lead paint; Lead paint poisoning; Lead poisoning; *TN746*. **SP305-4**.
- Mathematical modeling; Regulatory analysis; Resource management; Salmon fisheries; Salmon fishery modeling; Simulation; State of Washington; Washington State; Washington State Fisheries; Fisheries; Fishery; Fishery modeling; *NBSIR 75-745*. **SP305-7**.
- Mathematical models; Minimax estimation; Operations research; Probability distribution; Linear programs; *J.76B Nos. 1 and 2, 1-38 (1972)*. **SP305-4**.
- Mathematical models; Minimax estimation; Probability distribution; *J.72B No. 4, 273-277 (1968)*. **SP305-1**.
- Mathematical models; Minimax estimation; Operations research; Probability distribution; Linear programs; *J.73B No. 3, 225-230 (1969)*. **SP305-1**.
- Mathematical models; Minimax estimation; Operations research; Probability distribution; Linear programs; *J.73B No. 3, 231-239 (1969)*. **SP305-1**.
- Mathematical models; Numerical analysis; Operations research; Systems analysis; Management science; *15607*. **SP305-7**.
- Mathematical models; Operations research; Linear programs; *J.72B No. 4, 263-271 (1968)*. **SP305-1**.
- Mathematical models; Operational locations; Systems analysis; Transportation; Containerization; Maritime, cargo; *TN530*. **SP305-2**.
- Mathematical models; Safety; Separation; Vertical separation; Aircraft; Air transportation; Air traffic control models; Altimetry; Altitude; Aviation; Collision risk; Error analysis; *NBSIR 76-1067*. **SP305-8**.
- Mathematical models; Salmon fisheries model; Analysis of biological processes; Economic performance; Fisheries management; Fisheries regulation; *NBSIR 74-522*. **SP305-7**.
- Mathematical probability; Mean values of random variables; Probability distributions; Probability inequalities; Probability limit theorems; Propagation of error; Random variables; Statistical distributions; Tables of probability distributions; *10926*. **SP305-2**.
- Mathematical programming; Message network synthesis; Network optimization; Satellite; Service improvement; Communication; Cost-benefit; Deployment; Electronic transmission; Facility location; Mail; *NBSIR 75-737*. **SP305-7**.
- Mathematical programming standards; Testing; Algorithms; *15605*. **SP305-7**.
- Mathematical smoothing; Digital data smoothing; Digital filtering; Distortion; Gamma-ray spectra; *12732*. **SP305-4**.
- Mathematical statistics; Multivariate analysis; Order statistics; Social sciences, services to; Statistical education in the United States; Statistical tolerance limits; U.S. Army programs in statistics; U.S. Government, services to; Wilks award; *16114*. **SP305-8**.
- Mathematics; Matroids; Networks; Operations research; Optimization; Algorithms; Combinatorics; *9314*. **SP305**.
- Mathematics; Mercury; Performance standard; Pressure transducers; SRM; Surgical implants; Testing; Thermal transients; Architectural heritage; Fire; Guardrail; High-capacity; *DIM/NBS 60, No. 8, 1-24 (1976)*. **SP305-8**.
- Mathematics; Minimality; Thickness of graphs; Conjectures; Connectivity; Cut-set; Graph theory; *J.72B No. 3, 239-244 (1968)*. **SP305-1**.
- Mathematics; Monte-Carlo; Multiple integration; Numerical analysis; Numerical integration; Quadrature; Analysis; Integration; *9321*. **SP305**.
- Mathematics; Monte-Carlo; Multiple integration; Numerical analysis; Numerical integration; Quadrature; Analysis; Integration; *10152*. **SP305-1**.
- Mathematics; Network simplification; Single commodity flows; Wye-delta network reductions; Capacitated vertices; Delta-wye network reductions; Flows in networks; Graph theory; *10656*. **SP305-1**.
- Mathematics; Partially balanced incomplete block designs; PBIB designs; Statistics; Tables of PBIB designs; Analysis; PBIB designs; Experiment designs; Finite fields; Finite geometries; Finite projective planes; Incidence matrices; *AMS53*. **SP305-5**.
- Mathematics; Planar graphs; Thickness of graphs;  $t$ -mini-graphs; Bipartite graphs; Graph theory; *J.72B No. 2, 145-146 (1968)*. **SP305-1**.
- Mathematics; Segs; Basic cut-sets; Cut-sets; Graph theory; Network flows; *J.71B4-242, 183-186 (1967)*. **SP305**.
- Mathematics; Simulation; Simulation module; Computer programs; Computers; Computer simulation; Equations; Mathematical foundations; *NBSIR 74-556*. **SP305-6**.
- Mathematics bibliography; Bibliography; Indexes; *161*. **SP305-8**.
- Mathieu functions; Bisection method; Eigenvalues; Four coefficients; *J.73B No. 1, 21-24 (1969)*. **SP305-1**.
- Mathieu functions; Spheroidal functions; *J.74B No. 3, 187-188 (1970)*. **SP305-2**.
- Mathieu's equation; Characteristic values; Coefficients; Joint factors; *AMS59*. **SP305**.
- Matrix equation; Partitioned matrix; Rational canonical form; Similarity; *J.79B Nos. 3 and 4, 117-125 (1975)*. **SP305-7**.
- Matrix equation; Partitioned matrix; Smith normal form; Determinantal divisors; Equivalence; *J. Res. 80B No. 1, 89 (1976)*. **SP305-8**.
- Matrices; Asymptotic solutions; Error bounds; Integral equations; *J.70B3-181, 187-210 (1966)*. **SP305**.
- Matrices; Matrix calculus; Partial differentiation; Product rule; Tensor function; Trace; Chain rule; Continuum mechanics; Gradient; *J.75B, Nos. 3 and 4, 97-107 (1971)*. **SP305-3**.
- Matrices; Matrix inequalities; Matrix theory; Principal minors; Cauchy inequalities; Hermitian matrices; Interlacing theorems; *J.72B No. 1, 7-22 (1968)*. **SP305-1**.
- Matrices; Molecular formulae; Chemical structures; Computation; Connection tables; Hayward notation; *10442*. **SP305-1**.
- Matrices; Norm bounds; Vector bounds; Volterra vector integral equations; Asymptotic solutions; Eigenvalues; Eigen term; *J.70B3-180, 167-186 (1966)*. **SP305**.
- Matrices; Normality; Field; *J. 76B Nos. 3 and 4, 119-120 (1972)*. **SP305-4**.
- Matrices; Orthogonal group; Orthogonal transformations; Rotation; Rotation group; Rotation-inversions; Conjugacy; Conjugacy theorem; Conjugate rotations; *J.73B No. 2, 139-140 (1969)*. **SP305-1**.
- Matrices; Orthogonal transformations; Rotation; *J.72B No. 229-237 (1968)*. **SP305-1**.
- Matrices; Orthogonal transformations; Proper rotations; Rotations; Rotation; Axis and angle of rotation; Coordinate inversion; Coordinate reflection; Improper rotations; *J.72B No. 2, 125-138 (1969)*. **SP305-1**.
- Matrices; Polyhedral; Algebraic; Cones; Faces; Jordan equivalent; *16044*. **SP305-8**.
- Matrices; Rank; Determinant; Generalized matrix function; Variants; *J.75B, Nos. 3 and 4, 109-115 (1971)*. **SP305-3**.
- Matrices; Representations; Algebraic numbers; Groups; *AMS*. **SP305-1**.
- Matrices; Singular values; *J.74B No. 4, 307-309 (1970)*. **SP305-2**.
- Matrices;  $0,1$  matrices; Matrix equations; Permutation matrix decompositions; Block design; Combinatorial analysis; Configurations; König's theorem; *J.75B Nos. 1 and 2, 23-24 (1971)*. **SP305-3**.
- Matrix; Block; Rank; Algorithm; *J.70B3-183, 219-220 (1966)*. **SP305**.
- Matrix; Compartmental systems; Connectivity; Graph; *J.72B No. 2, 145-151 (1969)*. **SP305-1**.

rix; Compound; Divisors; *J. 76B Nos. 3 and 4, 205-206* (1972). **SP305-4.**

rix; Differentiable generalized inverse; Generalized inverse; *J.72B No. 2, 109-113* (1968). **SP305-1.**

rix; *EPr* matrices; Generalized inverse; *J.71B2&3-198, 57-* (1967). **SP305.**

rix; Fluorescence; Force field; *12422. SP305-4.*

rix; Generalized inverse; Inequality; *J.71B2&3-199, 61-64* (1967). **SP305.**

rix; Generalized inverse; Linear algebra; *J.72B No. 2, 103-* (1968). **SP305-1.**

rix; Generalized inverse; Linear systems; *J.72B No. 4, 303-* (1968). **SP305-1.**

rix;  $MgF$ ,  $Mg^{24}F_2$ ,  $Mg^{26}F_2$ ; Assignment; Frequency; Isotopy; Infrared; 9927. **SP305-1.**

rix; Microsamples; Ac scan; Derivative mode; Design; Detection limits; Flame emission spectrometry; Interferences; 560. **SP305-2.**

rix; NaOD; NaOH; RbOD; RbOH; Vibrational assignment; Alkali hydroxides; High temperature; Infrared; 11845. **SP305-3.**

rix; Orthogonal; Quaternions; Skew-symmetric; Regular presentation; Commutator; *J.71B1-196, 43-46* (1967). **SP305.**

rix; Orthogonal; Skew-symmetric; Commutator; *J.75B Nos. 2, 17-21* (1971). **SP305-3.**

rix; Orthogonal; Skew-symmetric; Anticommuting; Commutator; Factorization; *J.78B No. 3, 109-112* (1974). **SP305-6.**

rix; Partial; Isometry; Generalized inverse; *J.71B4-247, 225-* (1967). **SP305.**

rix; Partial isometry; Generalized inverse; *J.71B2&3-200, -67* (1967). **SP305.**

rix; Photolysis; Radical; Doublet; Infrared; Isotope; 10500. **SP305-1.**

rix; Principal submatrices; Rank; Symmetric matrix; Eigenvalues; *J.72B, No. 2, 115-125* (1968). **SP305-1.**

rix; Principal submatrices; Rank; Symmetric matrix; *J.72B No. 4, 249-252* (1968). **SP305-1.**

rix; Propagation of error; Variance; Coefficients subject to error; Determinant; Error propagation; Implicit functions; Linear equations; 14395. **SP305-6.**

rix; Residuals; Two-way table; Vacuum cleaner; Analysis of variance; Covariance matrix; Eigenvalues; Interaction; *J.74B No. 3, 149-154* (1970). **SP305-2.**

rix; SH; Ultraviolet; Infrared spectrum; Isolated SH; Low temperature; 11846. **SP305-3.**

rix; Vibrational assignment; Force field; Infrared; Lithium fluoride dimer; Low temperature; *J.72A No. 5, 487-493* (1968). **SP305-1.**

rix; Linear algebra; Necklace model; Polymer physics; Bead/spring model; Dilute polymer solutions; Eigenvalue; Hydrodynamic interaction; *J. Res. 80B No. 2, 273-284* (1976). **SP305-8.**

rix; analysis; Mode shape; Probability theory; Wind loads; Buildings; Dynamics; Gust loads; *BSS30, pp. 145-149*. **SP305-3.**

rix; analysis; Multidimensional scaling; Performance criteria; Reference scaling; Scaling; User evaluations; Visual environment; Color schemes; Field studies; Glare; Illuminance; *361, Vol. 1, pp. 121-129. SP305-4.*

rix; analyzed; Oceanography; Technique used; Activation analysis; Element determined; *TN534. SP305-2.*

rix; analyzed; Pollution analysis; Technique used; Activation analysis; Element determined; *TN532. SP305-2.*

rix; analyzed; Technique used; Activation analysis; Bibliography; Element determined; Literature file; *TN467. SP305-4.*

rix; analyzed; Technique used; Activation analysis; Bibliography; Element determined; Literature file; *TN467, Part 1. SP305-3.*

Matrix analyzed; Technique used; Activation analysis; Bibliography; Element determined; Literature file; *TN467, Part 2. SP305-3.*

Matrix analyzed; Technique used; Activation analysis; Bibliography; Element determined; Literature file; *TN467, Part 1. SP305-1.*

Matrix analyzed; Technique used; Activation analysis; Bibliography; Element determined; Literature file; *TN467, Part 2. SP305-1.*

Matrix analyzed; Technique used; 14-MeV neutron generators; Activation analysis; Element determined; *TN533. SP305-2.*

Matrix calculation; Monte Carlo calculation; Theory of diffusion; Vacancy diffusion; Computer simulation; Correlation factor for diffusion; Diffusion; 16073. **SP305-8.**

Matrix calculus; Matrix identity; Matrix theory; Reducibility; Schur's lemma; Strain energy; Continuum mechanics; Elasticity; Integration; *J.77B Nos. 3 and 4, 73-79* (1973). **SP305-5.**

Matrix calculus; Partial differentiation; Product rule; Tensor function; Trace; Chain rule; Continuum mechanics; Gradient; Matrices; *J.75B, Nos. 3 and 4, 97-107* (1971). **SP305-3.**

Matrix description of waveguide junctions; Microwave network analysis; Waveguide junction; 10660. **SP305-1.**

Matrix diagonalization; Nuclear collective model; Adiabatic approximation; Adiabatic separation method; Coupled oscillators; 11613. **SP305-2.**

Matrix, dynamical; Phonon dynamical matrix; Real parameters; Dynamical matrix; 15690. **SP305-7.**

Matrix effect; Molybdenum; NBS LINAC; NBS reactor; Photon activation analysis sensitivities; Standard reference materials; Zinc; Activation analysis; Cockcroft-Walton neutron generator; Computer literature searching; Extraction; Group separations; *TN458. SP305-1.*

Matrix effects; Standard reference materials; X-ray fluorescence; Corrections; 15983. **SP305-8.**

Matrix element; Perturbation analysis;  $\pi$ II,  $\pi$ II states; CO; Configuration interaction; Electronic perturbation parameters; 13690. **SP305-5.**

Matrix elements; Angular momentum operators; 10368. **SP305-1.**

Matrix elements; Fourier transform; Function  $V(q)$ ; Harmonic oscillator; 9420. **SP305.**

Matrix elements; Momentum transfer; Particle-hole model; Quasi-elastic model; Radiation tail; Transverse; Electroexcitation; Energy dependent potential; Goldhaber-Teller model; Longitudinal; 12853. **SP305-4.**

Matrix elements; Nuclear orientation; Orientation parameter; Photo absorption; Photon polarization; Polarizabilities; Electromagnetic transition; 10819. **SP305-1.**

Matrix elements; Paraxial; Strong lenses; Two-tube electrostatic lens; Weak lenses; Focal properties; 14151. **SP305-6.**

Matrix elements; Perturbation approach; Waveguide junctions; 10253. **SP305-1.**

Matrix elements; Phase conventions; Racah algebra; Recoupling graphs; Recoupling transformations; Angular momentum theory; 12642. **SP305-4.**

Matrix elements; Photoemission; Rare-earth metals; UV and x-ray photoemission; X-ray photoemission; Barium (Ba);  $\beta$ -tungsten compounds; Effects of oxidation; Electronic density of states; Europium (Eu); Lanthanides; *SP323, pp. 217-220. SP305-4.*

Matrix elements; Rotational line intensities; Singlet-triplet transitions; Spin forbidden transitions; Transition calculations; Asymmetric rotors; 12313. **SP305-3.**

Matrix equations; Non-cubic crystals; Defects in crystals; Diffusion; Drift velocity; Driving force; 15130. **SP305-7.**

Matrix equations; Nonrandom walk equation; Atom migration; Correlation factor; Crystal defect; Diffusion coefficient; 15776. **SP305-8.**



- Matrix equations; Permutation matrix decompositions; Block design; Combinatorial analysis; Configurations; König's theorem; Matrices; 0,1 matrices; *J.75B Nos. 1 and 2, 23-30 (1971)*. SP305-3.
- Matrix functions; Central idempotents; Group algebras; Irreducible representations; *13996*. SP305-6.
- Matrix functions; Multiple transitivity; Permutation group; Stirling numbers; Bell numbers; Branching theorem; Clebsch-Gordan series; Irreducible character; *J. Res. 80B No. 2, 265-268 (1976)*. SP305-8.
- Matrix groups; Associated matrices; Burnside theorem; Irreducible representations; *15307*. SP305-7.
- Matrix groups; Roots of unity; Free groups; *J.78B No. 2, 69-70 (1974)*. SP305-6.
- Matrix identity; Matrix theory; Reducibility; Schur's lemma; Strain energy; Continuum mechanics; Elasticity; Integration; Matrix calculus; *J.77B Nos. 3 and 4, 73-79 (1973)*. SP305-5.
- Matrix inequalities; Matrix theory; Principal submatrices; Cauchy inequalities; Hermitian matrices; Interlacing theorems; Matrices; *J.72B No. 1, 7-22 (1968)*. SP305-1.
- Matrix isolated; Oxides of uranium; Infrared spectra; Mass spectrophotometry; *J.78A No. 3, 421-424 (1974)*. SP305-6.
- Matrix isolation; Absorption; Laser-excited fluorescence; *12679*. SP305-4.
- Matrix isolation; Absorption spectrum; Band experiment;  $\text{CF}_2$ ;  $\text{CH}_2\text{F}_2$  photolysis; Fluorescence spectrum; *15908*. SP305-8.
- Matrix isolation; Aluminium; Fluorides; Gallium; Infrared spectra; *13965*. SP305-6.
- Matrix isolation; Carbon atoms;  $\text{CCl}_2$  radical;  $\text{CF}_2$  radical; Chlorine; Cyanogen azide; Electronic spectrum; Infrared spectrum; *10218*. SP305-1.
- Matrix isolation; Methanol; Vacuum-ultraviolet photolysis;  $\text{CH}_3\text{OH}$ ; Force constants; Infrared spectrum; *13581*. SP305-5.
- Matrix isolation; Methyl; Methylene; Photolysis; Rotation; Spectrum; Ultraviolet; Vacuum ultraviolet; Free radical; Infrared; *14044*. SP305-1.
- Matrix isolation; Methyl azide; Methylenimine; Normal coordinate analysis; Photolysis; Thermodynamic properties; C-N bond; Infrared spectrum; Isotopic substitution; *15110*. SP305-7.
- Matrix isolation; Methyl fluoride; Thermodynamic properties; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Carbon atom reaction;  $\text{CF}$ ; Force constants;  $\text{HCF}$ ;  $\text{H}_2\text{CF}$ ;  $\text{HF}$  reaction; Infrared spectrum; Isotopic substitution; *11341*. SP305-2.
- Matrix isolation; Methylacetylene; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Allene;  $\text{C}_2\text{H}_n$  ( $n = 0$  to  $3$ ); Infrared spectrum; Isotopic substitution; *14237*. SP305-6.
- Matrix isolation;  $\text{MnCl}_2$ ; Molecular orbitals;  $\text{NiCl}_2$ ; Transition-metal reactions; Ultraviolet spectrum;  $\text{Cl}_2$  reactions;  $\text{CoCl}_2$ ;  $\text{CrCl}_2$ ; Emission spectrum;  $\text{FeCl}_2$ ; Infrared spectrum; *11340*. SP305-2.
- Matrix isolation;  $\text{MoF}_5$ ; Raman spectroscopy; Infrared; *13501*. SP305-5.
- Matrix isolation; Molecular geometries; Heavy metal halides; Infrared spectra; *12157*. SP305-3.
- Matrix isolation; Molecular ion; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Charge transfer; Free radical; Infrared spectrum; *12787*. SP305-4.
- Matrix isolation; Molecular ions; Molecular orbitals; Photolysis; Ultraviolet spectrum; Alkali metal reactions; Cage effect; Flash photolysis; Free radicals; Infrared spectrum; *12748*. SP305-4.
- Matrix isolation; Molecular ions; Photolysis; Ultraviolet spectrum; Free radicals; Infrared spectrum; *13706*. SP305-5.
- Matrix isolation; Molecular ions; Reactive molecules; Rotation in matrices; Vibrational spectra; Atomic spectra; Electronic spectra; Free radicals; High-temperature species; *134*. SP305-5.
- Matrix isolation; Molecular ions, photolysis; Ultraviolet spectrum; Free radicals; Infrared spectrum; *12663*. SP305-4.
- Matrix isolation; Molecular orbitals;  $\text{O}_2 + \text{O}^-$  reaction; C anion; Ultraviolet spectrum; Charge transfer; Electron attachment; Infrared spectrum; *12881*. SP305-4.
- Matrix isolation; Molecular orbitals;  $\text{SO}_2^-$  anion; Sulfur dioxide; Alkali metal reactions; Charge transfer; Electron capture; Infrared spectrum; *12336*. SP305-3.
- Matrix isolation; Molecular orbitals; Vibrational spectrum; Electronic spectrum; Flash photolysis; Free radicals; *118*. SP305-3.
- Matrix isolation; Molecular rotation; Vacuum-ultraviolet photolysis; Vibrational potential function; Alkali metal reactions;  $\text{BrHBr}^-$ ; Charge transfer;  $\text{CHCl}^-$ ; Electron attachment; Infrared spectrum; *12369*. SP305-3.
- Matrix isolation; Molecular rotation in solid Ar; Photoinduced proton transfer; Ultraviolet spectrum; Ar metastable interactions;  $\text{CHCl}^-$ ; Emission spectrum;  $\text{HAu}_n^+$ ;  $\text{HCCl}_2$ ;  $\text{HCCl}$ ;  $\text{HCCl}_2$ ; Infrared spectrum; *15757*. SP305-8.
- Matrix isolation; Molecular structure;  $\text{NbF}_5$ ; Vibrational assignment; Infrared spectrum; Knudsen effusion; *13060*. SP305-3.
- Matrix isolation; Molecular structure;  $\text{N}_2\text{O} + \text{CO}_2^-$  reaction;  $\text{C} + \text{CO}_2$  reaction;  $\text{O}_2^- + \text{CO}$  reaction; Charge transfer;  $\text{CO}$ ;  $\text{CO}_2^-$ ;  $\text{CO}_3^-$ ; *14563*. SP305-6.
- Matrix isolation; Molecular structure; Charge transfer;  $\text{CO}_2^-$ ; Infrared spectrum; Ion-molecule aggregates; *14722*. SP305-7.
- Matrix isolation; Monochlorocarbodiimide; Monochlorocyanide; NCN reactions; Photolysis; Thermodynamic properties; C atom reactions; Cyanogen azide; Electronic spectrum; Force constants;  $\text{HCCl}$  free radical;  $\text{HCl}$  reaction; Infrared spectrum; *10275*. SP305-1.
- Matrix isolation; NCN free radical; Thermodynamic properties; Ultraviolet spectrum; Carbon suboxide photolysis; C atom reactions; C atom sources; CNN free radical; Cyanogen azide photolysis; Force constants; Infrared spectrum; *9947*. SP305-1.
- Matrix isolation; NCN reaction; Photolysis;  $\text{CF}_2$ ;  $\text{CF}_3$ ; Cyanogen azide; Difluorocyanamide; F atom reaction;  $\text{F}_2$  reaction;  $\text{FNCN}$ ; Infrared spectrum; Isotopic substitution; *1123*. SP305-2.
- Matrix isolation; NCO free radical; NO reaction;  $\text{O}^3$  atom reaction; Ultraviolet spectrum; Vacuum ultraviolet photolysis; F atom reaction; CN reaction;  $\text{HN}_3$  photolysis; Infrared spectrum; *10405*. SP305-1.
- Matrix isolation;  $\text{NF}$ ;  $\text{NF}_2$ ;  $\text{NF}_3$ ; Ultraviolet spectrum; Vacuum ultraviolet photolysis; Infrared spectrum; *14440*. SP305-6.
- Matrix isolation;  $\text{NF}$ ;  $\text{NF}_2$ ; Thermodynamic properties; Visible ultraviolet spectrum; F atom reactions; Force constants;  $\text{HNF}$ ;  $\text{HNF}_2$ ; Infrared spectrum; *9335*. SP305.
- Matrix isolation;  $\text{NF}_2$ ; Photolysis, thermodynamic properties; Ultraviolet spectrum;  $^{12}\text{CF}_2$ ;  $^{13}\text{CF}_2$ ;  $^{12}\text{CF}_3$ ;  $^{13}\text{CF}_3$ ; C atom reaction; F atom reaction;  $\text{F}_2$  reaction; Force constants; *1058*. SP305-1.
- Matrix isolation; Nitrite anion; Nitrogen dioxide; Photodetachment; Photoionization; Vacuum-ultraviolet photolysis; Alkali metal atoms; Electron bombardment; Infrared spectrum; *11697*. SP305-2.
- Matrix isolation;  $\text{NO}^-$ ;  $\text{NO}_2^-$ ;  $\text{N}_2\text{O}_2^-$ ;  $\text{O}^-$  reactions; Alkali metal reactions; Charge transfer; Electron attachment; Infrared spectrum; *12415*. SP305-4.
- Matrix isolation; Normal coordinate analysis;  $\text{O}_2$ ; Ultraviolet spectrum; Vacuum-ultraviolet photolysis;  $\text{ClO}$ ;  $\text{H-ate}$  reaction;  $\text{HO}_2$ ;  $\text{H}_2\text{O}_2$ ; Infrared spectrum; *12809*. SP305-4.
- Matrix isolation;  $\text{NO}_2^-$ ; Photodetachment; Photoionization; Alkali metal reactions; Electron attachment; Infrared spectrum; *13705*. SP305-5.

Matrix isolation; O-atom reaction; Structure; Ultraviolet spectrum; Vacuum-ultraviolet photolysis;  $\text{CO}_2$ ;  $\text{CO}_3$ ; Force constants; Infrared spectrum; *12101. SP305-3.*  
 Matrix isolation;  $\text{O} + \text{O}_2$  reaction;  $\text{O}_3^-$  anion;  $\text{O}_4^-$  anion; Structure; Ultraviolet spectrum; Charge transfer; Infrared spectrum; Isotopic substitution; *12938. SP305-4.*  
 Matrix isolation; Photochemistry; Photoionization; Reaction kinetics; Thermodynamic; Absorption and emission spectroscopy; Far (vacuum) ultraviolet; Ion-molecule reactions; *3177. SP305-5.*  
 Matrix isolation; Photochemistry; Spectra; Vacuum ultraviolet; Ironic structure; Borazine; Gas phase; *12459. SP305-4.*  
 Matrix isolation; Photoionization; Vacuum ultraviolet photolysis;  $\text{CCl}_3$ ; Chloroform; Electron attachment;  $\text{HCCl}_2^+$ ;  $\text{CCl}_3^-$ ;  $\text{HCCl}_3$ ; Infrared spectrum; *12242. SP305-3.*  
 Matrix isolation; Photoionization; Swan bands; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Acetylene;  $\text{C}_2$  radical,  $\text{C}_2^+$  ion; Cesium; Electron affinity; *11405. SP305-2.*  
 Matrix isolation; Photolysis;  $\text{SiCl}_4$  free radical; Ultraviolet spectrum; Dichlorosilane; Dichlorosilane- $d_4$ ; Force constants; Infrared spectrum; *11232. SP305-2.*  
 Matrix isolation; Photolysis;  $\text{SiCl}_3$ ; Trichlorosilane; Ultraviolet spectrum; Force constants; Free radical; Infrared spectrum; *1003. SP305-2.*  
 Matrix isolation; Photolysis; Ultraviolet spectrum;  $\text{CICF}_3$ ; Chlorofluoromethane; Chlorofluoromethane- $d_9$ ; Fluorescence spectrum; Free radical; Infrared spectrum; *12219. SP305-3.*  
 Matrix isolation; Photolysis; Ultraviolet spectrum;  $\text{CCl}$ ;  $\text{CCl}_2$ ; Force constants; Free radical;  $\text{HCCl}$ ;  $\text{HCCl}_2$ ;  $\text{H}_2\text{CCl}$ ; Infrared spectrum; *11964. SP305-3.*  
 Matrix isolation; Photolysis; Ultraviolet spectrum;  $\text{CF}_3\text{NF}$ ;  $\text{F}_2\text{NF}_2$ ; F atom reaction;  $\text{FCN}$ ;  $\text{F}_2\text{CN}$ ;  $\text{FC}_2\text{NF}$ ; Free radical; Infrared spectrum; *11002. SP305-2.*  
 Matrix isolation; Photolysis; Ultraviolet spectrum; Absorption;  $\text{CO}$ ; Emission; Force constants; Formaldehyde; Free radical;  $\text{HCO}$ ; Hydrocarbon flame bands; Infrared spectrum; *11404. SP305-2.*  
 Matrix isolation; Primary process; Decay; Flash photolysis; Lifetime; *9396. SP305.*  
 Matrix isolation; Proton affinity; Vacuum ultraviolet photolysis; Argon reactions;  $\text{H}(2S)$  reaction with  $\text{Ar: HAr}^+$ ; Infrared spectrum; Interstitial H atom spectrum; *13545. SP305-5.*  
 Matrix isolation; Pyrolysis; s-trithiane; Thioformaldehyde; Ultraviolet photolysis; Vacuum ultraviolet photolysis;  $\text{CH}_3\text{S}$ ;  $\text{H}_2\text{SH}$ ; Dimethylsulfide; Infrared spectrum; *15334. SP305-3.*  
 Matrix isolation; Reaction of OH with CO; Stereoisomers; Vacuum-ultraviolet photolysis;  $\text{CHO}_2$  free radical; Force constants; Infrared spectrum; *12112. SP305-3.*  
 Matrix isolation;  $\text{ScCl}_3$ ;  $\text{TiCl}_3$ ;  $\text{TiCl}_4$ ; Dichlorides of Ca, Sc, Ti, Cr, Mn, Fe, Ni; Geometry; Infrared spectra of species; *2281. SP305-3.*  
 Matrix isolation;  $\text{SiF}_2$ ; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Difluorosilane; Free radical;  $\text{HSiF}_2$ ; Infrared spectrum; *11233. SP305-2.*  
 Matrix isolation;  $\text{SiF}_3$  free radical; Thermodynamic properties; Difluorosilane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Force constants; Infrared spectrum; *11234. SP305-2.*  
 Matrix isolation;  $\text{Si}_4$ ;  $\text{SiH}$ ;  $\text{SiH}_2$ ;  $\text{SiH}_3$ ; Silane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Disilane; Free radical; Infrared spectrum; *11647. SP305-2.*  
 Matrix isolation; Sputtering; Ultraviolet spectroscopy; Atomic spectra; High temperature materials; Low temperature; *1122. SP305-2.*  
 Matrix isolation; Stability;  $\text{ZrF}_2$ ,  $\text{ZrF}_3$ ,  $\text{ZrF}_4$ ,  $\text{CaF}_2$ ; Entropy; Geometry; Infrared spectra; *13567. SP305-5.*  
 Matrix isolation; Structure; Vacuum ultraviolet photolysis; Acetylene; Discharge; Ethynyl ( $\text{HC}_2$ ); Infrared spectrum; Interstellar molecule; *15003. SP305-7.*  
 Matrix isolation; Thermal functions;  $\text{UO}_2$ ; Entropy; Infrared spectrum; *12628. SP305-4.*  
 Matrix isolation; Thermodynamic properties; Force constants;  $\text{H} + \text{NO}$  reaction;  $\text{HNO}$ ; Infrared spectrum; *13840. SP305-6.*  
 Matrix isolation; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Bichloride anion;  $\text{CHCl}$  free radical; Electron attachment;  $\text{HCl}$  dimer; Hydrogen bonding; Infrared spectrum; *11975. SP305-3.*  
 Matrix isolation; Vacuum ultraviolet photolysis;  $\text{CICF}_2$ ;  $\text{DCCIF}_2$ ;  $\text{DCCl}_2\text{F}$ ;  $\text{FCCl}_2$ ;  $\text{HCCIF}_2$ ;  $\text{HCCl}_2\text{F}$ ; Infrared spectrum; *13334. SP305-5.*  
 Matrix isolation; Vacuum-ultraviolet photolysis; Bromoform; Carbon tetrabromide; Carbon tetrachloride;  $\text{CBF}_3$ ;  $\text{CCl}_3$ ; Chloroform; Infrared spectrum; Lithium atoms; *11652. SP305-2.*  
 Matrix isolation technique;  $\text{CF}_2$  reactions;  $\text{CF}_3$  free radical;  $\text{CF}_3\text{Br}$  photolysis; F atom reactions;  $\text{HCF}_3$  photolysis; Infrared spectrum; *9368. SP305.*  
 Matrix isolation technique; Ultraviolet spectrum; Vacuum ultraviolet photolysis; CN free radical; Cyanogen; Cyanogen bromide; Cyanogen chloride; Cyanogen fluoride; Halogen isocyanides; Hydrogen cyanide; Hydrogen isocyanide; Infrared spectrum; *10233. SP305-1.*  
 Matrix isolations; Barium; Barium oxides; High temperature; Infrared; *J.75A No. 1, 23-25 (1971). SP305-3.*  
 Matrix logarithm; Multicomponent diffusion; Coefficients; Diaphragm cell; *11284. SP305-2.*  
 Matrix methods for integro-differential operators; Numerical methods in transfer; Radiative transfer in inhomogeneous media; Line formation in multi-dimensional media; *SP332, pp. 138-170. SP305-2.*  
 Matrix norm; Monotonicity; Principal submatrix; Spectral radius; Vector norm; Consistency; *J.79B Nos. 3 and 4, 97-102 (1975). SP305-7.*  
 Matrix norms; Approximate inverses; Approximate solutions; Error bounds; High speed digital computation; *J.78B No. 2, 65-68 (1974). SP305-6.*  
 Matrix operations; Numerical analysis; OMNITAB II user oriented computing system; Self-teaching; Statistical analysis; Automatic printing; Bessel functions; Data analysis; Data manipulation; Easy and effective programming in English; List of instructions; *TN552. SP305-3.*  
 Matrix reference materials; Pure reference materials; Reference methods; Routine methods; Secondary reference materials; Standard Reference Materials; Definitive method; *16104. SP305-8.*  
 Matrix representation; Nilpotent group; Normalizer; Solvable group; Character; Cosets; *J.76B Nos. 1 and 2, 45-50 (1972). SP305-4.*  
 Matrix representations; Bounds; Conjugacy classes; Groups; *10770. SP305-1.*  
 Matrix ring; Non-Noetherian ring; Principal ideal ring; Dedekind ring; *J.73B No. 3, 211-213 (1969). SP305-1.*  
 Matrix scanner; Microanalysis; Quantitative analysis; Standard reference materials; X-ray emission; Alloys; Corrections; Electron probe; Homogeneity; *SP260-28. SP305-3.*  
 Matrix solution; Rectangular transmission line; Time-domain reflectometer; Variable impedance; Characteristic impedance; Current distribution; General method; *10158. SP305-1.*  
 Matrix spectra; Spectroscopy; Infrared matrix; Infrared spectra; Isolation spectroscopy; Lithium oxide species; *10683. SP305-1.*  
 Matrix subgroup; Abstract groups; Discrete groups; Discrete matrix subgroup; F-groups; *9883. SP305-1.*  
 Matrix theory; Principal submatrices; Cauchy inequalities; Hermitian matrices; Interlacing theorems; Matrices; Matrix inequalities; *J.72B No. 1, 7-22 (1968). SP305-1.*

- Matrix theory; Reducibility; Schur's lemma; Strain energy; Continuum mechanics; Elasticity; Integration; Matrix calculus; Matrix identity; *J.77B Nos. 3 and 4, 73-79 (1973). SP305-5.*
- Matrix-isolation; Molecular emission spectra; Resonance fluorescence; Absorption; Analytical methods; Laser-excited fluorescence; *12680. SP305-4.*
- Matrix-isolation; Spectra; Vibrational assignment; Vibrational fundamentals; Chlorodifluoramine; Infrared spectra; *9294. SP305.*
- Matrix-whisker bonding; Ni coated sapphire whiskers; Optical metallography; Sapphire whiskers; Al-10 percent Si alloy; Electron probe microanalyzer; Fiber composites; *J.72A No. 3, 269-272 (1968). SP305-1.*
- Matroid; Binary; Bridge-separable; Even; Graphic; *J.71B4-245, 213-214 (1967). SP305.*
- Matroid; Network; Operations research; Algorithm; Graph; *J. Res. 80B No. 3, 337-342 (1976). SP305-8.*
- Matroid; Partition; Transversals; Algorithm; Combinatorics; Forests; *10917. SP305-2.*
- Matroid designs; Matroids; Balanced incomplete block designs; *J.77B Nos. 1 and 2, 15-44 (1973). SP305-5.*
- Matroids; Balanced incomplete block designs; Matroid designs; *J.77B Nos. 1 and 2, 15-44 (1973). SP305-5.*
- Matroids; Maximal flows; Network flows; Independence properties; *J.79B Nos. 1 and 2, 59-62 (1975). SP305-7.*
- Matroids; Networks; Operations research; Optimization; Algorithms; Combinatorics; Mathematics; *9314. SP305.*
- Matroids; Systems of distinct representatives; Term rank; Algorithms; Combinatorics; Indeterminates; Linear algebra; *J.71B4-250, 241-245 (1967). SP305.*
- Matter, line profiles; Atomic processes, interstellar; *16012. SP305-8.*
- Mattress; Smoke; Toxic gases; Fire retardant; Fire test; Heat release ignition; *NBSIR 73-177. SP305-7.*
- Mattresses; Foam mattresses; Hospital mattresses; Latex; Latex foam mattresses; Latex foam for hospitals; *PS63-75. SP305-7.*
- Mattresses; Pads; Pillow cases; Pillows; Plastics; Rugs; Sheets; Springs; Upholstered furniture; Upholstery; Bedding; Beds; Blankets; Carpets; Curtains; Drapes; Fabrics; Fibers; Fire; Flames; Flammability; Flammable; Floor coverings; *TN498-1. SP305-2.*
- Mattresses; Pillow cases; Pillows; Rugs; Sheets; Springs; Wearing apparel; Apparel; Bedding; Beds; Blankets; Carpets; Clothing; Fabrics; Fibers; Fire; Flame; Flammability; Flammable; Floor coverings; *TN498. SP305-2.*
- Mattresses; Research; Sampling plans; Standards; Test development; Upholstered furniture; Annual report to Congress; Blankets; Children's sleepwear; Flammability; Flammability reduction; *TN749. SP305-4.*
- Mattresses; Research; Small carpets and rugs; Standards; Test development; Annual report to Congress; Blankets; Carpets and rugs; Children's sleepwear; Cooperation; Flammability; Flammability reduction; *TN596. SP305-3.*
- Mattresses; Sleepwear; Standards; United States; Blankets; Canada; Carpets; Clothing; Fabric flammability testing; Fabrics; Flammable Fabrics Act; Hazardous Products Act; *TN742. SP305-4.*
- Mattresses; Sleepwear; Standards; Upholstered furniture; Cigarettes; Education; Fabric; Fire; Flammability; Hazard; Ignition source; Kitchen ranges; Matches; *SP411, pp. 1-4. SP305-6.*
- Mattresses; Test methods; Upholstered furniture; Bedding; Fabrics; Flammability; Hazards; *11709. SP305-2.*
- Maturity; Mechanical properties; Nondestructive evaluation; Pull-out strength; Splitting tensile strength; Compressive strength; Concrete; *TN932. SP305-8.*
- Maxima; Real variable; Arbitrary functions; Continuity; *10354. SP305-1.*
- Maximal flows; Network flows; Independence properties; Matroids; *J.79B Nos. 1 and 2, 59-62 (1975). SP305-7.*
- Maximal normal subgroups; Simple groups; Linear fraction groups; *11072. SP305-2.*
- Maximization; Spanning trees; Trees; Combinatorial analysis; Enumeration; Graphs; *J.78B No. 4, 193-196 (1974). SP306.*
- Maximization; Gomory algorithm; Integer programming; Linear inequalities; *J.71B4-243, 187-195 (1967). SP305.*
- Maximum allowable concentration of CO<sub>2</sub>; New York C schools; Ventilation; Air quality; Intermittent operation; *16550. SP305-8.*
- Maximum heating temperature; Peak height; Reproducibility; Sensitivity loss; Supralinearity; Dosimetry; Fading; Furnace annealing; Glow curve; *15193. SP305-7.*
- Maximum modulus; Bounded index; Convexity; Entire function; Exponential type; *J.74B No. 1, 55-59 (1970). SP305-2.*
- Maximum modulus; Bounded index; Entire function; Exponential type; *J.75B, Nos. 3 and 4, 149-156 (1971). SP305-3.*
- Maximum permissible concentrations; Photoneuclear reaction; Processing; Radiation; Threshold energies; Detection; Induced radioactivity; *9853. SP305-1.*
- Maximum stresses; Symmetrical bending; Symmetrically distributed load; Theory; Circular plates; Concentric loading; Design; Elasticity; Experiment; *J.71C1-438, 1-10 (1967). SP305.*
- Maximal point; Renormalization; Coexistence curve; Critical azeotrope; Critical double point; Decorated lattice graphs; *14087. SP305-6.*
- Maxwell; Natural standards; Wavelength standards; Atomic frequency standards; Fundamental standards; Lord Kelvin; *14522. SP305-6.*
- Maxwellian distribution; Scattering; Semiconductor; Magnetic field; *12078. SP305-3.*
- Maxwell-Wagner polarization; Piezoelectric  $d$  constant; Piezoelectricity; Relative humidity; Temperature; Bond dispersion phenomena; *16314. SP305-8.*
- McLeod gauge; Static pressure division; Vacuum measurement accuracy; Vacuum standards; Absolute vacuum reference standards; Dynamic pressure division; Manometry; *1267. SP305-4.*
- McLeod gauge; Micromanometry; Quartz Bourdon gauge; Static expansion; Thermal transpiration; Vapor-stream pumping; Viscosity gauge; Capacitance-diaphragm gauge; Knudsen radiometer; *14933. SP305-7.*
- MC-SCF; Molecular geometry; NO<sub>2</sub>; Spectra; Dipole moment; Excited states; *15336. SP305-7.*
- MC-SCF; O<sub>2</sub>; O<sub>3</sub>; Polarizability; Van der Waals; CO; Energy surface; F<sub>2</sub>; Hydrides; LiH<sub>2</sub>; *15275. SP305-7.*
- m*-dioxane ring; Proton magnetic resonance; Glycanoid ring; Spectroscopy; 1,2,4,6-di-*O*-benzylidene- $\alpha$ -D-glucopyranose; Conformations; Coupling constants; Iterative analysis; *1187. SP305-3.*
- Mean; Standard deviation; Statistics; Updating estimates; Data analysis; *15640. SP305-7.*
- Mean adatom stay time; Moving boundary; Stefan problem; Surface diffusion; Surface diffusion constant; Whisker evaporation; *11129. SP305-2.*
- Mean deviation; Range; Samples of size 3; Statistics; *1100. SP305-2.*
- Mean distance between defects; Rutile crystal damage; Thin film damage; Coating defects; Damage morphology; Damage thresholds; Laser-induced scatter; *SP387, pp. 114-12. SP305-5.*
- Mean energy of fission neutron spectrum; Neutron cross-sections; Neutron data evaluation; U-233, U-235, Pu-239, Pu-241; Westcott *g*-factors; Cf-252 spontaneous fission neutron yield;  $E = 0.0253$  eV and 20 °C Maxwellian; *SP425, pp. 286-292. SP305-7.*

can field theory; Metastability; Perturbation scheme; Reference system; Structure factor; Limit of stability; 16595. SP305-8.

can free path; Quantitative analysis; Electron spectroscopy for chemical analysis; 16079. SP305-8.

can ionization potential; Microprobe analysis; Atomic number correction; Bethe's Law; Electron backscatter; Error propagation; 11632. SP305-2.

can life; Resonance radiation; Transition probability; U; Uranium; Delayed coincidence;  $f$  value; Imprisonment; Lifetime; 15058. SP305-7.

can life; Resonance radiation; Silver; Transition probability; Ag;  $f$ -value; Imprisonment; Lifetime; 15120. SP305-7.

can life; Resonance radiation; Transition probability; U; Uranium; Atomic beam; Delayed coincidence; Imprisonment; Lifetime; 16322. SP305-8.

can lives; Slow electrons; Atomic levels; Electron impulse; 9850. SP305-1.

can radiant temperature; Performance; Relative humidity; Thermal environment; Thermal neutrality; Air motion; Air temperature; Comfort; SP361, Vol. 1, pp. 31-42. SP305-4.

can stay time; Stefan problem; Surface concentration; Surface self-diffusion; Whisker growth; Curtis approximation; Dittmar-Neumann approximation; 9508. SP305.

can values of random variables; Probability distributions; Probability inequalities; Probability limit theorems; Propagation of error; Random variables; Statistical distributions; Tables of probability distributions; 10926. SP305-2.

can-free-path; Transport properties; Validity range; Viscosity; Dilute gas; Dilute limit; Low pressure; 10520. SP305-1.

caning; Symbols; Understanding; Written language; Human communication; Language; 13233. SP305-5.

caningful measurement; Accuracy; Clinical chemistry; 14210. SP305-6.

caningful measurement; Measurement; Measurement system; Precision; Reference method; Specificity; SRM; Standard reference material; Systematic error; Certification; Monogr. 148. SP305-7.

caningful measurements; Measurement; Reference materials; SRM's; Standard materials; Standard reference materials; Standards; Certification; Certified reference materials; Materials; SP408. SP305-7.

can's; Relative error; Arithmetic mean; Geometric mean; Harmonic mean; 1728 No. 1, 1-4 (1968). SP305-1.

canure; Model; Monitor; Dialogue; Interaction; Man-computer; 14088. SP305-6.

canure; Standards; States; Training; Weights; Laboratory; 10086. SP305-1.

canure pressures; Pressure gages; Pressure-sensitive components; Regenerating circuits; Transit time; Ultrasonic pulses; Fluid range; 10563. SP305-1.

canure theory; Minimax; Combinatorial analysis; Combinatorial probability; J. Res. 80B No. 2, 237-243 (1976). SP305-8.

canured; neutrons; ratio;  $^{238}\text{U}$ ;  $^{235}\text{U}$ ; 600 keV-22 MeV; cross-sections; fission; SP425, pp. 568-571. SP305-7.

canured; Neutrons; 1 keV - 1 MeV;  $^{239}\text{Pu}$ ;  $^{235}\text{U}$ ; Cross-sections; Fission; SP425, pp. 564-567. SP305-7.

canured; Positive displacement; Cryogenic; Flow; Flowmeters; Liquid nitrogen; 14774. SP305-7.

canured capture gamma rays resolution approximately 80 keV; Nuclear reactions  $^{209}\text{Pb}(n,\gamma)^{210}\text{Pb}$   $E_x = 11.2$  MeV; SP425, pp. 923-925. SP305-7.

canured capture-to-fission ratio; Nuclear reactions  $^{235}\text{U}(n,f)$  and  $^{235}\text{U}(n,\gamma)$ ;  $E = 86$  eV - 31.6 keV; Enriched target; SP425, pp. 599-602. SP305-7.

canured cross-section ratio; Nuclear reactions;  $^{186,187}\text{Os}(n,\gamma)$ ;  $E_x = 25$  keV; 16579. SP305-8.

canured ( $d^2\sigma/dE_d d\Omega$ ) ( $\theta; E_d$ ),  $\sigma_f(E_d)$  for  $^7\text{Be}$  breakup reaction; SP425, pp. 692-696. SP305-7.

Measured  $d^2\sigma/d\Omega dE$ ; Nuclear reaction ( $n,n'\gamma$ );  $E_n \approx 14.2$  MeV; SP425, pp. 770-773. SP305-7.

Measured  $E_\gamma$ ; Radioactivity;  $^{106}\text{Cd}$ ; 10427. SP305-1.

Measured form factors; Nuclear reactions;  $^{14}\text{N}$ ;  $^9\text{Be}(e,e')$ ; Deduced wave functions; Electron scattering; 14967. SP305-7.

Measured L/K EC ratio; Multiwire proportional counter; Radioactivity  $^{86}\text{Kr}$  [from ( $n,\gamma$ )]; Deduced  $Q_{ec}$ ,  $\log f$ ,  $J$ ; enriched  $^{86}\text{Kr}$  target; Isotope separated sources; 15197. SP305-7.

Measured neutron spectra; Shielding.  $^{238}\text{U}(p,xn)$ ,  $E_p \approx 800$  MeV; Analysis by Monte Carlo; Angular dependence; Deep penetration of neutrons in Fe + H shield; SP425, pp. 476-479. SP305-7.

Measured  $p(E,\theta)$  absolutely for  $^{12}\text{C}(n,n)$  reaction then determined  $A(E,\theta)$  for other reactions; Nuclear reactions  $^4\text{He}(n,n)$ ;  $^6\text{Li}(n,n)$ ;  $^9\text{Be}(n,n)$ ; SP425, pp. 875-878. SP305-7.

Measured  $\sigma$ ; Nuclear medicine; Nuclear reactions;  $E = 800$  MeV; Isotope production; La, Mo, V (p, spallation); SP425, pp. 492-495. SP305-7.

Measured  $\sigma(E)$ ; Nuclear reactions  $^{12}\text{C}(n,2n)$ ,  $E \approx 23$ -34 MeV; Statistical model calculations;  $^{238}\text{U}(n,2n)$ ,  $E \approx 13$ -18 MeV; SP425, pp. 819-822. SP305-7.

Measured  $\sigma(E, E_\gamma)$  and  $\sigma_{\gamma\gamma}$   $^{238}\text{U}$  deduced resonances,  $\pi, \Gamma_n$ ; Nuclear reactions  $^{238}\text{U}(n, \gamma)$ ,  $E = 10$ -1600 eV; Enriched targets; SP425, pp. 733-737. SP305-7.

Measured  $\sigma(E)$  for  $A \approx 6, 7, 9, 10, 11$ ; Nuclear reactions  $^{12}\text{C}(p,L)$ ; Astrophysical production of Li, Be and B;  $E \approx 45$  - 100 MeV;  $L \approx \text{Li}$ , Be, B; SP425, pp. 504-508. SP305-7.

Measured  $\sigma(E_n)$ ; SP425, pp. 855-858. SP305-7.

Measured  $\sigma(E_n, 90^\circ)$  for ground, 45, 148 keV states; Nuclear reactions  $^{238}\text{U}(n,n)$ , ( $n,n'$ ),  $E = 0.9$ -2.7 MeV; Time-of-flight; Compared with calculated excitation functions; SP425, pp. 950-952. SP305-7.

Measured  $\sigma(E_n, \theta)$ ; Nuclear reactions  $^{138}\text{Ba}(\gamma,n)$ ,  $^{140}\text{Ce}(\gamma,n)$ ; Deduced  $\Sigma\Gamma_\gamma$  (M1) and  $\Sigma\Gamma_\gamma$  (E1);  $E_\gamma \approx 9$  MeV; SP425, pp. 784-787. SP305-7.

Measured  $\sigma(E_n, \theta)$ ; Nuclear reactions  $\text{C}(n,n)$ ,  $\text{C}(n,n')$ ,  $E \approx 9$ -15 MeV; SP425, pp. 866-870. SP305-7.

Measured  $\sigma_{\alpha,n}$ ,  $\sigma_{\alpha,\gamma}$ ,  $\sigma_{\alpha,n,\alpha}$ ; Nuclear reactions  $^{238}\text{U}(n,n)$ ,  $^{238}\text{U}(n,\gamma)$ ,  $E \approx 30$ -1800 eV;  $^{237}\text{U}$  resonances deduced  $\Gamma_n$ ,  $\Gamma_\gamma$ ; Enriched target; SP425, pp. 729-732. SP305-7.

Measured  $\sigma_{\alpha,n}(E)$ ; Multilevel R-matrix resonance analysis; Fe(n),  $E_\alpha \approx 0.5$ -30 MeV; SP425, pp. 754-757. SP305-7.

Measured  $\sigma(E)$ ; ( $n,n$ ), ( $n,\gamma$ ),  $E \approx 1$  eV-few keV; Nuclear reactions; Summary of deduced  $E_\alpha$ ,  $\Gamma_n$ ,  $\Gamma_\gamma$ ,  $S_\alpha$ , ( $D_0$ ); Various statistical tests; SP425, pp. 780-783. SP305-7.

Measured  $\sigma(E)$ ; Nuclear reactions  $^{209}\text{Bi}$  ( $n,n$ ), ( $n,\gamma$ ),  $E \approx 500$  eV-75 keV; Deduced  $E_\alpha$ , I, J,  $\Gamma_n$ ,  $S_\alpha$ ,  $S_i$ ; SP425, pp. 799-801. SP305-7.

Measured  $\sigma(E, E)$ ,  $E = 1.5$ -5.0 MeV,  $\sigma(E, E)$ ,  $E = 1.8$ -4.0 MeV,  $\Theta_{lab} = 20$  to  $160^\circ$ ; Nuclear reaction  $^{12}\text{C}(n,n)^{12}\text{C}$ ; R-function analysis; SP425, pp. 246-249. SP305-7.

Measured  $\sigma(\theta)$ ; nuclear reactions;  $^6\text{Li}(p,p)$ ;  $^6\text{Li}(p,^3\text{He})$ ;  $^6\text{Li}(^3\text{He},p)$ ;  $^6\text{Li}(d,p)$ ;  $^6\text{Li}(d,\alpha)$ ; deduced  $\sigma \alpha \beta$  ( $\sigma \gamma$ ); SP425, pp. 697-700. SP305-7.

Measured  $\sigma(\theta)$ ; Nuclear reactions  $^{76,78,80,82}\text{Se}(n,n)$ , ( $n,n'$ ),  $E \approx 6$ -10 MeV; Deduced optical-model parameters; Enriched targets; SP425, pp. 897-900. SP305-7.

Measured  $\sigma(\theta)$ ; Nuclear reactions  $^{146}\text{Nd}(n,n)$ , ( $n,n'$ ),  $^{148,150}\text{Sm}(n,n)$ , ( $n,n'$ ),  $^{152,154}\text{Sm}(n,n+n')$ ,  $E = 7.0$  MeV; SP425, pp. 942-945. SP305-7.

Measured  $\sigma(E_d)$ ,  $\sigma_f(E_d)$  for  $^6\text{Li}(d,n)^3\text{He}$  reactions;  $E_d = 0.2$ -0.9 MeV; SP425, pp. 692-696. SP305-7.

Measured  $\sigma(\theta)$  for  $E_\gamma \approx 0.847$  MeV; Nuclear reactions;  $\theta = 90^\circ, 75^\circ, 55^\circ, 35^\circ$ ;  $E_\alpha = 8.5, 10.0, 12.2, 14.2$  MeV; Fe( $n,\alpha$ ); SP425, pp. 813-815. SP305-7.

Measured Th fission and deduced  $\Gamma_f$  below 260 eV; Measured  $^{140}\text{Nd}(n,\alpha)$ ; Measured  $^{238}\text{U}$  fission below 35 keV, deduced  $\Gamma_f$



- of 6.7, 21 and 37 eV resonances; *SP425*, pp. 93-96. **SP305-7.**
- Measured  $T_{1/2}$ ; Pressured ionization chamber; Radioactivity  $^{133}\text{Xe}$ ;  $\nu$  relative intensity; Enriched source; Ge(Li) detector; *14812. SP305-7.*
- Measured yield asymmetries; Nuclear reactions:  $^6\text{Li}(n, t)^4\text{He}$ ,  $E \approx 0.2-1.4$  MeV; Deduced analyzing powers  $A(\Theta)$ ; *SP425*, pp. 788-791. **SP305-7.**
- Measured  $^{145}\text{Nd}(n, \alpha)$ ; Measured  $^{238}\text{U}$  fission below 35 keV, deduced  $\Gamma_f$  of 6.7, 21 and 37 eV resonances; Measured Th fission and deduced  $\Gamma_f$  below 260 eV; *SP425*, pp. 93-96. **SP305-7.**
- Measured  $^{238}\text{U}$  fission below 35 keV, deduced  $\Gamma_f$  of 6.7, 21 and 37 eV resonances; Measured Th fission and deduced  $\Gamma_f$  below 260 eV; Measured  $^{145}\text{Nd}(n, \alpha)$ ; *SP425*, pp. 93-96. **SP305-7.**
- Measurement; Accuracy statement; Cryogenic; Flow facility; Liquid nitrogen; *13073. SP305-5.*
- Measurement; Accuracy statement; Cryogenic; Flow facility; Liquid nitrogen; *TN606. SP305-3.*
- Measurement; Appearance potential; Gaseous positive ions; Heat of formation; Ionization potential; *16205. SP305-8.*
- Measurement; DC voltage; Low level; *10877. SP305-2.*
- Measurement; Measurement assurance; Uncertainty; *15976. SP305-8.*
- Measurement; Measurement compatibility; Reference methods; Standard Reference Materials; *15265. SP305-7.*
- Measurement; Measurement compatibility; National Bureau of Standards; Reference materials; Standard reference materials; Standard Reference Materials program; Accuracy; *16549. SP305-8.*
- Measurement; Measurement process; Precision; Statistical control; Uncertainty; Accuracy; Mass measurement; *Mono. 103. SP305.*
- Measurement; Measurement system; Precision; Reference method; Specificity; SRM; Standard reference material; Systematic error; Certification; Meaningful measurement; *Monogr. 148. SP305-7.*
- Measurement; Measurement systems; Reliability; System reliability; Uncertainty; Accuracy; Accuracy chart; Calibration uncertainties; *11198. SP305-2.*
- Measurement; Measures; Performance; Usability; Communications networks; Computer networks; Cost; Interactive service; *TN908. SP305-8.*
- Measurement; Mechanical tests; Plastic deformation; Proportional limit; Crack propagation; Determination of stress; *16468. SP305-8.*
- Measurement; Medicine; Standard Reference Materials; Clinical; *11486. SP305-2.*
- Measurement; Medicine; Standard reference materials; Clinical; *11220. SP305-2.*
- Measurement; Metallography; Metallurgical analysis; Microscopy; Photogrammetry; Evaluation; *11977. SP305-3.*
- Measurement; Methane; Cryogenic; Density; Flow; Importation; Liquefied natural gas; *14071. SP305-6.*
- Measurement; Metric; Packaging and labeling; Police radar equipment; Standards; Supermarket automation; Weights and measures; Calibration; Communication; Consumers; Grain moisture measurement; Laws and regulations; *SP442. SP305-8.*
- Measurement; Metrology; Response time; Sensor; Temperature; Thermometer; Time constant; Cryogenic; Instrumentation; *9944. SP305-1.*
- Measurement; Micrometer; Precise; Sensitive; Contour; Displacement; Distance; Distance-measurement; Field emission; Instrument; *10141. SP305-1.*
- Measurement; Microwave; Accurate; Calibration; Directional coupler; High power; *J75C Nos. 3 and 4, 181-186 (1971). SP305-3.*
- Measurement; Microwave; Microwave power; Calibration; Calibration factor; Directional coupler; *15662. SP305-7.*
- Measurement; Microwave; Mismatch errors; Rayleigh distance; Standard gain horns; Antennas; Calibration; Comparison; Effective aperture; Electromagnetic horns; Gain; *TN35. SP305.*
- Measurement; Microwave; Network; Nonreciprocal; Scattering parameters; Two-port; *10815. SP305-1.*
- Measurement; Microwave; Noise; Phase shift; Power; Progress; Reflection coefficient; Review; Standards; Survey; Antenna gain; Attenuation; Field strength; Impedance; *9565. SP301.*
- Measurement; Microwave radiation; Probe; Radiation; Standards; Electromagnetic radiation; Energy density; Hazard; *TN391. SP305-2.*
- Measurement; Mines; Noise; Communication; Field strength; *13155. SP305-5.*
- Measurement; Mismatched generators; Noise; Effective temperature; *11177. SP305-2.*
- Measurement; Modeling; Monitoring; Operating systems; Performance objectives; Computer architecture; Computer performance evaluation; Installation management; *SP40. SP305-7.*
- Measurement; National Bureau of Standards; National Measurement System; National standards; Self-calibration; Standards, national; Systems concept; *11516. SP305-2.*
- Measurement; National measurement system; Technology transfer; Voluntary standards; Computer science; Laboratory accreditation; *14920. SP305-7.*
- Measurement; Network; Performance; Communications; Computer; Evaluation; *15693. SP305-7.*
- Measurement; Networks; Performance; Queues; Analytic models; Evaluation; *SP406*, pp. 119-121. **SP305-7.**
- Measurement; Networks; Performance; Petri Nets; Probability; Evaluation; Graphs; *SP406*, pp. 127-130. **SP305-7.**
- Measurement; Nitrogen; Air; Alpha particles; Argon; Average energy; Ion pair; *10325. SP305-1.*
- Measurement; Nitrogen dioxide; Particulate matter; Photochemical oxidants; Standards; Sulfur dioxide; Carbon monoxide; Hydrocarbons; *16121. SP305-8.*
- Measurement; Noise; Pollution; Sound; Acoustics; Environmental control; *12730. SP305-4.*
- Measurement; Nondestructive assay; Nuclear; Safeguard; Traceability; Calibration; *16414.. SP305-8.*
- Measurement; Nozzles, volumetric; Calibration; Critical flow; Gas flow; *14654. SP305-6.*
- Measurement; Nuclear isomers; Solenium; Tungsten; Bromine; Cadmium; Erbium; Gold; Half lives; Iridium; *12873. SP304.*
- Measurement; Nuclear isomers; Solenium; Tungsten; Bromine; Cadmium; Erbium; Gold; Half lives; Iridium; *14356. SP306.*
- Measurement; Nuclear spin relaxation time; Ortho-para; Relaxation time;  $T_1$ ; Analyzer; Cryogenics; Hydrogen; Instrumentation; Liquefier; Liquid hydrogen; *9486. SP305.*
- Measurement; Open-channel flow; Standards; Calibration; Current meters (fluids); Hydraulics; *12358. SP305-3.*
- Measurement; Optical; Refractive index; Shadowgraph; Homogeneity; Index gradient; Infrared; Interferometer; Laser; *10023. SP305-1.*
- Measurement; Orifice; Volume flowmeters; Vortex shedding; Angular momentum; Cryogenic; Flow; Liquid nitrogen; Mass flowmeters; *TN650. SP305-6.*
- Measurement; Outdoor lighting criteria; Performance criteria; Process description; University facilities; Acoustical environment; Administrative procedures; Communication; Environmental criteria; Functional criteria; *SP361, Vol. 1*, pp. 33-337. **SP305-4.**
- Measurement; Oxides of nitrogen; Sulfur dioxide; Air pollution; Instrument; *14939. SP305-7.*



easurement; Oxygen; Performance; Pressure; Survey; Transducer; Calibration; Compatibility; Cryogenic; Liquid oxygen; *15155. SP305-7.*  
 easurement; Parameters; Performance; Performance terminology; Predictability; Requirements; Variables; Workload; Computer system; Factors; *SP406*, pp. 53-60. **SP305-7.**  
 easurement; Peak pulse power; Pulse modulation; RF power; *9792. SP305-1.*  
 easurement; Performance; Capacity; Computer; Evaluation; *TN851. SP305-6.*  
 easurement; Performance; Power; Work; Computer efficiency; Evaluation; *SP406*, pp. 131-134. **SP305-7.**  
 easurement; Performance; Pressure; Test methods; Transducer calibration; Evaluation; *11042. SP305-2.*  
 easurement; Performance; Prime; Program; Test; Assessment; Complex; Composite; Computer; Criteria; Evaluation; Gaussian primes; Indexing; *TN572. SP305-3.*  
 easurement; Performance; Service; Utility; Computer; Evaluation; *15093. SP305-7.*  
 easurement; Performance; Software monitors; Throughput; Computer; Evaluation; Hardware monitors; *SP406*, pp. 99-102. **SP305-7.**  
 easurement; Performance monitoring; Performance variability; Computer performance analysis; *SP406*, pp. 109-112. **SP305-7.**  
 easurement; Permittivity; Dielectric breakdown; Dielectric constant; Dielectric standards; Electrical insulation; Instrumentation; *9754. SP305-1.*  
 easurement; Phase-angle; Standard; Audio frequency; Thermal voltage converter; Inductive voltage divider; *TN347. SP305.*  
 easurement; Polarization; Antennas; *15659. SP305-7.*  
 easurement; Positive displacement; Cryogenic; Flow; Flowmeters; Liquid nitrogen; *TN605. SP305-3.*  
 easurement; Positive displacement; Turbine; Vortex shedding; Angular momentum; Cryogenic; Flowmeter; Liquid nitrogen; *15043. SP305-7.*  
 easurement; Precision; Radio frequency; Coaxial; Connectors; Immittance; Lumped-parameter; *9815. SP305-1.*  
 easurement; Precision; Referee methods; Specificity; Standard reference materials; Accuracy; Analysis; Clinical chemistry; *14209. SP305-6.*  
 easurement; Precision accuracy; Test methods; Interlaboratory studies; *14280. SP305-6.*  
 easurement; Pressure; Standards; Vacuum; Accuracy; Calibration; *10269. SP305-1.*  
 easurement; Pressure; Standards; Vacuum; Accuracy; Calibration; *11051. SP305-2.*  
 easurement; Pressure transducer; Transducer calibration; Vibration; Boundary initial problems; *TN856. SP305-7.*  
 easurement; Procurement; Response; Service; Computer; Interactive; *16247. SP305-8.*  
 easurement; Product safety; Research; Science; Standards; Technology; Annual report; Computer; Energy; Environment; *SP437. SP305-7.*  
 easurement; Radio frequency; Resistance; Standards; State of the art; Capacitance; Inductance; Impedance and admittance; *9795. SP305-1.*  
 easurement; Radio frequency; Resonance; Capacitance; Coaxial; High-Q; Immittance; Inductance; *13097. SP305-5.*  
 easurement; Radioactivity; Radiopharmaceutical; Standards; Traceability; Assurance; *SP456*, pp. 71-76 (Nov. 1976). **SP305-8.**  
 easurement; Radio-frequency; Standards; Thermocouple; Ammeter; Calibration; Current; Electrodynamics; *10058. SP305-1.*  
 easurement; Ratio; Standards; Voltage; Volt box; Calibration; Console; Electrical; *J70C3-229, 173-185 (1966). SP305.*  
 easurement; Ratio;  $^{235}\text{U}$ ; Fission; *SP425*, pp. 546-548. **SP305-7.**

Measurement; Ratio transformer; Ratio transformer bridge; Bridge; Impedance; Impedance bridge; *12172. SP305-3.*  
 Measurement; Reference materials; SRM's; Standard materials; Standard reference materials; Standards; Certification; Certified reference materials; Materials; Meaningful measurements; *SP408. SP305-7.*  
 Measurement; Reference methods; Standard reference materials; Accuracy; Clinical chemistry; *15496. SP305-7.*  
 Measurement; Research and development; Accounting; Computer performance evaluation; Efficiency; *SP406*, pp. 155-157. **SP305-7.**  
 Measurement; Rotary-vane attenuator; Series substitution; Attenuation; *TN647. SP305-6.*  
 Measurement; Rotary-vane attenuator; Attenuation; Interlaboratory standard; *Monogr. 144. SP305-7.*  
 Measurement; Sampling; Simulation; Wattmeter; Analog-to-digital conversion; Digital; Electricity; Electric power; *TN870. SP305-7.*  
 Measurement; Sampling; Wattmeter; Analog-to-digital conversion; Digital; Electricity; Electric power; *14878. SP305-7.*  
 Measurement; Security audit; Access control; Computer security; Controlled accessibility; EDP management control; Identification; *TN827. SP305-6.*  
 Measurement; Self-energy; Atomic beam; Electromagnetic; Electron; Hyperfine; Mass; *9996. SP305-1.*  
 Measurement; SI units; Units of measurement; Ancient measures; History; *11456. SP305-2.*  
 Measurement; Simulation; Thermal efficiency; Buildings; Conservation; Energy; Energy sources; *14669. SP305-6.*  
 Measurement; Spectral reflectance; Stainless steel; Technique; Infrared; Low-temperature; *11347. SP305-2.*  
 Measurement; Standard field; Antenna; Electric field strength; *11749. SP305-2.*  
 Measurement; Standard reference material; Water pollution; Air pollution; *TN828. SP305-6.*  
 Measurement; State of the art; Strain; Strain gage; Extensometer; Historical; *10458. SP305-1.*  
 Measurement; Statistical control; Statistical design; Test methods; Experimental error; *13001. SP305-4.*  
 Measurement; Stratosphere; Chemical kinetics; Free radicals; *16130. SP305-8.*  
 Measurement; Surface; Surface finish; Surface roughness; Technology assessment; Economic factors; *NBSIR 75-927. SP305-8.*  
 Measurement; Traceability; Uncertainty; *15975. SP305-8.*  
 Measurement; Turbine flowmeters; Volume flowmeters; Cryogenic; Flow; Liquid nitrogen; Mass; Mass flowmeters; *TN624. SP305-4.*  
 Measurement;  $^{239}\text{Pu}$ ; Comparison; Cross sections; Fission, absorption; *SP425*, pp. 627-630. **SP305-7.**  
 Measurement accuracy; Medical facilities; Regulatory; Therapy; Traceability; Diagnosis; *SP456*, pp. 139-146 (Nov. 1976). **SP305-8.**  
 Measurement accuracy; National temperature measurement system; Temperature scale; Thermometer calibration; Thermometer production; Thermometry; *15060. SP305-7.*  
 Measurement accuracy; Physical measurement; Physical standards; Standards for science; *10504. SP305-1.*  
 Measurement activities; Measurement institutions; Mechanical quantities; National Measurement System; Optical quantities; Thermal quantities; Time and frequency; Acoustic quantities; Electrical quantities; Electromagnetic quantities; End-use measurements; *NBSIR 75-943. SP305-8.*  
 Measurement algorithm; Measurement assurance; Measurement process; Measurement unit; Process variability; Uncertainty; *Monogr. 149. SP305-7.*  
 Measurement assurance; Calibration; Gage blocks; *15302. SP305-7.*

Measurement assurance; Measurement process; Measurement unit; Process variability; Uncertainty; Measurement algorithm; *Monogr. 149. SP305-7.*

Measurement assurance; Radiation users; Standards; Ionizing radiation; *SP456*, pp. 403-416 (Nov. 1976). **SP305-8.**

Measurement assurance; Transport standard; Watthour meter; Electric energy; Electricity; Electric power; *TN930. SP305-8.*

Measurement assurance; Uncertainty; Measurement; *15976. SP305-8.*

Measurement assurance program; Permissible limits; Radiation; Regulations; Standards; Transfer standards; Government agencies; *14583. SP305-6.*

Measurement assurance programs; Non-ionizing EM radiation hazards; RF and microwave measurements; Standards; Calibrations; Laser calorimeters; *SP456*, pp. 417-425 (Nov. 1976). **SP305-8.**

Measurement biases; Ppb; Ppm; Real samples; Standard Reference Materials; Trace element analysis; Accuracy limits; Activation analysis; Activation spectrometry; Analytical chemistry; *14425. SP305-6.*

Measurement challenge; Science and technology; Sea of data; Standard reference data system; Computer age; Data system; Materials research; *DIMI/NBS 60/Suppl.*, Anniversary Issue, 1-32 (1976). **SP305-8.**

Measurement compatibility; National Bureau of Standards; Reference materials; Standard reference materials; Standard Reference Materials program; Accuracy; Measurement; *16549. SP305-8.*

Measurement compatibility; Reference methods; Standard Reference Materials; Measurement; *15265. SP305-7.*

Measurement compatibility; Standard reference materials; Characterizing materials; *11668. SP305-2.*

Measurement education; Metrology curriculum; *14845. SP305-7.*

Measurement errors; Noise factor; Noise measurements; Noise performance factors; Noise temperature; Y-factor measurements; Effective input noise temperature; *Monogr. 142. SP305-6.*

Measurement errors; Normalization factors; Process activity; Unidentified process losses; Inventory fluctuations; *12870. SP305-4.*

Measurement errors; Precision; Accuracy; Error analysis; Instrument errors; *13063. SP305-5.*

Measurement errors; Radiation effects; Transistors; Delay time; *14546. SP305-6.*

Measurement errors; Temperature measurement; Thermistors; Thermocouples; Thermometers; Air in ducts; *10632. SP305-1.*

Measurement history; Measuring instruments; Physical constants; Physical standards; Calibration; Instrument specifications; International standards; *12413. SP305-4.*

Measurement, impulse, telephone arresters; Telephone lightning arrester, impulse testing; Test circuit, telephone arrester; Gas tube arresters, impulse testing; Impulse test circuit, gas tube arresters; Impulse testing, lightning arresters, telephone; *12600. SP305-4.*

Measurement institutions; Mechanical quantities; National Measurement System; Optical quantities; Thermal quantities; Time and frequency; Acoustic quantities; Electrical quantities; Electromagnetic quantities; End-use measurements; Ionizing radiation; *NBSIR 75-943. SP305-8.*

Measurement instrumentation; Mine noise; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; Fast Fourier transform; *NBSIR 74-391. SP305-7.*

Measurement instrumentation; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; *TN654. SP305-6.*

Measurement instrumentation; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; *NBSIR 74-388. SP305-6.*

Measurement instrumentation; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise; Digital data; Electromagnetic communications; Electromagnetic interference; Electromagnetic noise; Fast Fourier Transform; *NBSIR 74-389. SP305-6.*

Measurement instrumentation; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise, digital electromagnetic communication; Electromagnetic interference; Electromagnetic noise; Fast Fourier Transform; *NBSIR 74-390. SP305-6.*

Measurement language; Metric system; International system (SI); *12571. SP305-4.*

Measurement language; Metrication; Metric system; Conversion; International standards; Legislation; *14837. SP305-7.*

Measurement method; Nondestructive test; Nonlinear operation; Optical scanner; Reliability; Transistors; Failure analysis; Hot spots; Integrated circuits; Laser scanner; *SP400-3. SP305-8.*

Measurement methodologies; Microphones; Psychoacoustics; Reverberation room; Sound level meters; Audiometric standards; Building acoustics; Community noise; Earphones; Environmental noise; Instrumentation; *15502. SP305-7.*

Measurement methods; Microcircuits; Silicon; Device fabrication; Environmental testing; Integrated circuits; *SP336, 1449-455. SP305-3.*

Measurement methods; Microelectronics; Oxides; Photolithography; Process control; Reliability; Semiconductor device; Silicon; Wire bonding; Die bonding; Hermeticity; Integrated circuits; *SP400-3. SP305-6.*

Measurement methods; Microelectronics; Radioisotope tests; Seals; Semiconductor devices; Weight test; Bubble test; C analysis; Helium leak test; Hermeticity; Integrated circuit; *SP400-9. SP305-6.*

Measurement methods; Microelectronics; Micrometrology; MOS devices; Oxide films; Photomasks; Photoresist; Resistivity; Scanning electron microscopy; Semiconductor device; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; *SP400-8. SP305-7.*

Measurement methods; Microelectronics; Micrometrology; MOS devices; Oxide films; Resistivity; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; *SP400-12. SP305-7.*

Measurement methods; Microelectronics; Micrometrology; MOS devices; Oxide films; Photomask inspection; Resistivity; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; *SP400-17. SP305-7.*

Measurement methods; Microelectronics; Moisture infusion; Optical flying-spot scanner; Oxide films; Passivation overcoats; Photomask metrology; Pull test; Resistivity; Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; *SP400-19. SP305-8.*

Measurement methods; Microelectronics; Moisture infusion; Optical flying-spot scanner; Passivation overcoats; Photoresist; Pull test; Resistivity; Scanning acoustic microscope; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; *SP400-25. SP305-8.*

Measurement methods; Microelectronics; MOS capacitor; p-n junctions; Semiconductors; Silicon; Thermally stimulated capacitance; Thermally stimulated current; Cryostat; Defected Gold-doped silicon; *SP400-26. SP305-8.*

Measurement methods; MOS capacitor;  $p$ - $n$  junction; Semiconductor defects; Silicon; Thermally stimulated capacitance; Thermally stimulated current; Gold-doped silicon; 16363. SP305-8.

Measurement methods; Photoconductive decay; Photoconductivity; Photomagnetolectric effect; Recombination of excess carriers; Semiconductors; Surface photovoltage; Bibliography; Diffusion length; Diode recovery; Excess carrier lifetime; 17465. SP305-1.

Measurement methods; Photovoltaic; Electron voltaic; Photoconductivity; Point potential probe; Spreading resistance; Voltage breakdown; Bibliography; Semiconductor material inhomogeneities; TN445. SP305-1.

Measurement methods; Photovoltaic effect; Resistivity; Semiconductors; Silicon; Germanium; Inhomogeneities; 14223. SP305-6.

Measurement methods; Radio measurements; Radio standards; IJRSI XVth General Assembly; International Scientific Radio Union Report; 11487. SP305-2.

Measurement methods; Reactance; Resistance; Resistor; Standards; Adapters; Capacitance; Capacitors; Detectors; Generators; Impedance instruments; Impedance standards; Inductance; Inductors; Monogr. 141. SP305-6.

Measurement, microwave voltages; Voltage, high-frequency; Calibration; Voltage measurements; Voltage Tee; Calibration, high-frequency voltages; 9266. SP305.

Measurement of atmospheric gases and vapors; Measurement of atmospheric particles; Air pollution; Air quality instrumentation; Air quality measurements; Anion analysis; Clean Air Act; Elemental analysis; SP351, pp. 245-295. SP305-4.

Measurement of atmospheric particles; Air pollution; Air quality instrumentation; Air quality measurements; Anion analysis; Clean Air Act; Elemental analysis; Measurement of atmospheric gases and vapors; SP351, pp. 245-295. SP305-4.

Measurement of building energy; Building retrofit; Building systems; Energy conservation in buildings; HVAC automatic control; HVAC systems; 15663. SP305-7.

Measurement of coating thickness; Metallography; Microscopy; Thickness determination of coatings; Coating thickness; 13141. SP305-5.

Measurement of field strength; Measurement of pulsed voltage; Measurement of rf voltage; Measurement of thermal noise; 10063. SP305-1.

Measurement of frost points; Moisture measurement; Water vapor measurement; Aluminum oxide sensor; Humidity; Humidity sensor; Hygrometer; TN824. SP305-6.

Measurement of humidity; Measurement of moisture; Moisture; Moisture measurement system; Water vapor; Humidity; Humidity measurement system; NBSIR 75-933. SP305-8.

Measurement of magnetization; Ferromagnetism; Magnetization of pure iron; Magnetometer calibration; 9619. SP305-1.

Measurement of magnetization; Saturation magnetization; Vibrating-sample magnetometer; Ferro- and ferrimagnetism; Magnetization; Magnetometer calibration; J70C4-236, 255-262 (1966). SP305.

Measurement of microwave current; Measurement of microwave power; Measurement of microwave voltage; Mismatch error; Picosecond rise-time pulse evaluation; Power measurement; Pulse-rise-time standardization; Sampling oscilloscope standardization; Monogr. 123. SP305-4.

Measurement of microwave power; Measurement of microwave voltage; Mismatch error; Picosecond rise-time pulse evaluation; Power measurement; Pulse-rise-time standardization; Sampling oscilloscope standardization; Spectrum analyzer standardization; Monogr. 123. SP305-4.

Measurement of microwave voltage; Mismatch error; Picosecond rise-time pulse evaluation; Power measurement; Pulse-rise-time standardization; Sampling oscilloscope standardization; Spectrum analyzer standardization; Termination mismatch error elimination; Monogr. 123. SP305-4.

Measurement of moisture; Moisture; Moisture measurement system; Water vapor; Humidity; Humidity measurement system; Measurement of humidity; NBSIR 75-933. SP305-8.

Measurement of motion; Motion transducers; Transducer compendium; Velocity transducers; Vibration transducers; Acceleration transducers; Displacement transducers; Jerk transducers; 12778. SP305-4.

Measurement of operating margins; Nondestructive tests; P-MOS shift register; Active devices; Laser scanning; Logic flow observation; LSI testing; 15833. SP305-8.

Measurement of pressure; Cryogenic liquid; Engineering and instrumentation; Hydrogen; Liquid hydrogen; Liquid level; 9714. SP305-1.

Measurement of pulsed voltage; Measurement of rf voltage; Measurement of thermal noise; Measurement of field strength; 10063. SP305-1.

Measurement of rf voltage; Measurement of thermal noise; Measurement of field strength; Measurement of pulsed voltage; 10063. SP305-1.

Measurement of spiraling; Spiraling; Electron gun; 14255. SP305-6.

Measurement of thermal noise; Measurement of field strength; Measurement of pulsed voltage; Measurement of rf voltage; 10063. SP305-1.

Measurement of time and frequency; Time and frequency; Clocks; Frequency and time; 16569. SP305-8.

Measurement of turbulence; Turbulence; Anemometer; Hot-wire; 12752. SP305-4.

Measurement of 2-port efficiency; Microwave measurements; Efficiency of two-port; 12946. SP305-4.

Measurement principles; Precision; Accuracy; 9912. SP305-1.

Measurement process; Calibration; Comparator; Gage blocks; Length; NBSIR 76-979. SP305-8.

Measurement process; Measurement unit; Process variability; Uncertainty; Measurement algorithm; Measurement assurance; Monogr. 149. SP305-7.

Measurement process; Metrology; Precision; Propagation of error; Standard deviation; Statistical concepts; Control chart; Data analysis; 11797. SP305-2.

Measurement process; On-line computers; Recognition techniques; Review; Statistics; Transforms; Chemical analysis; Curve fitting; Distribution functions; Experiment planning and optimization; 14294. SP305-6.

Measurement process; Precision; Regression line; Scheduling measurements; Statistical design of experiments; Systematic error; Youden's burette experiment; Accuracy; Analysis of variance; 12527. SP305-4.

Measurement process; Precision; Statistical control; Uncertainty; Accuracy; Mass measurement; Measurement; Mono. 103. SP305.

Measurement process; Precision; Statistical concepts in measurements; Systematic error; Accuracy; Analysis of measurement data; Design of experiments; Functional relationships; Interlaboratory tests; SP300, Volume 1. SP305-1.

Measurement process; Statistical analysis; Trend elimination; Calibration; Calibration design; Experiment design; Instrumental drift; TN844. SP305-6.

Measurement process; Uncertainty; Calibration; Comparator; Interferometer; Length; Long gage blocks; NBSIR 74-545. SP305-6.

Measurement process; Uncertainty; Calibration; Gage blocks; Interferometry; Laser; Length; Monogr. 152. SP305-7.

Measurement science; Meter; Metric; Pulses; Robot; Sound; Construction; Dry weight; Ears; Energy; Health care; Hospitals; DIM/NBS 59, No. 10, 218-239 (1975). SP305-7.

Measurement science; Pollution; Screw threads; Smoke and gas fatalities; Waster; Water; Computer vote; Cost-sharing; Cryogenic data; Earthquake; Energy; Grain alcohol; DIM/NBS 58, No. 12, 265-288 (1974). SP305-6.

- Measurement seminars; Metric; Protecting nuclear fuels; Computers; Energy research; Ethylene; Fabric flammability; Glass standards; Household fires; Jet engines; *DIM/NBS 59, No. 1, 1-24 (1975). SP305-7.*
- Measurement services; OAS; Standardization; AID; Assistance; Economics; Foreign relations; Industrializing nations; LDC's; *NBSIR 75-769. SP305-7.*
- Measurement services; Philippines; Standardization; Testing facilities; Building technology; Information handling; *NBSIR 76-1083. SP305-8.*
- Measurement services; Review; Standardization; Survey; AID; Development assistance; Economics; Ecuador; Less developed countries; *NBSIR 75-785. SP305-7.*
- Measurement services; Standardization; Survey; Turkey; AID; Assistance; Economics; LDC's (less developed countries); *13476. SP305-5.*
- Measurement services; Standardization; Survey; Korea; AID; Assistance; Economics; LDC's (less developed countries); *13608. SP305-5.*
- Measurement services; Standardization; AID; Assistance; Economics; Foreign relations; Industrializing nations; LDC's; *13794. SP305-5.*
- Measurement services; Standardization; AID; Assistance; Economics; Foreign relations; Industrializing nations; LDC's; *NBSIR 74-550. SP305-6.*
- Measurement, skid resistance; Pavement, skid resistance; Pavement wetting system; Tire-pavement interface forces; Wet pavement; Accident reduction, skidding; Correlation, skid resistance; Highway safety; *NBSIR 76-1133. SP305-8.*
- Measurement standards; NBS; Quality control; U.S. AID; Africa; Asia; Engineering standards; Industrialization; Latin America; Less-developed countries; *SP359. SP305-4.*
- Measurement standards; Physical constants; Science teaching; *12381. SP305-4.*
- Measurement standards; Properties of matter and materials; Engineering measurements and standards; *M282. SP305.*
- Measurement standards; Self-calibration; Directional coupler; *15828. SP305-8.*
- Measurement standards; Spectral density; Speed of light; Standard frequency broadcasts; Statistics of time/frequency measurements; Time; Time/frequency dissemination; Time scales; Timing (HF, LF, satellite, TV, VLF); Wavelength standards; *WWV. SP350. SP305-3.*
- Measurement, statistical surface parameters; Surface finish; Surface parameters; Characterization; Instruments; *15368. SP305-7.*
- Measurement system; Meter; Physical constant; Second; Standard; Unit; Degree Kelvin; Kilogram; *9797. SP305-1.*
- Measurement system; Millimeter; Reflection coefficient, VSWR; Attenuation; *TN619. SP305-4.*
- Measurement system; National Conference of Standards Laboratories; Proceedings, 1966 Standards Laboratory Conference; Traceability; United States measurement system; Accuracy; Calibrations; Conferences, 1966 Standards Laboratory; *M291. SP305.*
- Measurement system; National economy; National/international measurement system; International measurement; *15171. SP305-7.*
- Measurement system; National standards laboratories; Precision electromagnetic measurements; Standards laboratories; *9874. SP305-1.*
- Measurement system; Noise comparator; Noise measurement; Noise standards; *12947. SP305-4.*
- Measurement system; Nondestructive evaluation; Pulse-echo; Ultrasonics; Aluminum ultrasonic reference standards; ASTM-type reference standards; Calibration; Interim reference standard; Longitudinal beam; *TN924. SP305-8.*
- Measurement system; Nuclear power plant; Productivity; Subway; Calculable capacitor; Color; Computer simulation; Electricity; Energy-environment; Fire safety; *DIM/NBS 59, No. 12, 266-291 (1975). SP305-7.*
- Measurement system; Photometry; Professional societies; Radiometry; Standards; *TN594-6. SP305-6.*
- Measurement system; Precision; Reference method; Specific SRM; Standard reference material; Systematic error; Certification; Meaningful measurement; Measurement; *Mon 148. SP305-7.*
- Measurement system; Ratio; Ratio standard; Resistive divider; Voltage ratio; Divider; *12150. SP305-3.*
- Measurement system; Spectroscopy; State measurements; Thermochimistry; Calorimetry; Chemical energy; Chemical thermodynamic data; Energy scale (chemical); Equilibrium measurements; Mass spectrometry; *15450. SP305-7.*
- Measurement system; Weights and measures; Alaskan base study; Consumer goods; Door security; Ferrite measurements; Health hazards; Industry incentives; International program; Law enforcement; *DIM/NBS 58, No. 2, 25-48 (1975). SP305-6.*
- Measurement system description; Phase noise, spectral density; Stability definitions; Terminology standards; Allan variance; Frequency stability measurements; *TN632. SP305-5.*
- Measurement system description; Phase noise; Spectral density; Terminology standards; Allan variance; Frequency stability measurements; *NBSIR 74-396. SP305-6.*
- Measurement system identity; Technology assessment; Fluid measurement study; Fluid flow measurement system; *15400. SP305-7.*
- Measurement systems; Metric system; U.S. metric units; Foreign trade; Harmonization of standards; *13121. SP305-5.*
- Measurement systems; Metric system; U.S. metric units; Foreign trade; Harmonization of standards; *13122. SP305-5.*
- Measurement systems; Metric system; Modernized metric system; SI; Weights and measures; International system units; *SP304, Revised October 1972. SP305-4.*
- Measurement systems; Metric system; Modernized metric system; SI; Weights and measures; International system units; *SP304A, Revised October 1972. SP305-4.*
- Measurement systems; Metric system; SI units; English measurement system; *SP304. SP305-1.*
- Measurement systems; Metric system; Treaty of the meter; English measurement system; *SP304A. SP305-1.*
- Measurement systems; Metric system; Metric system study; International system of units; *11417. SP305-2.*
- Measurement systems; Metric system; Modernized metric system; SI; Weights and measures; International system units; *SP304A. SP305-7.*
- Measurement systems; Reliability; System reliability; Uncertainty; Accuracy; Accuracy chart; Calibration uncertainty; Measurement; *11198. SP305-2.*
- Measurement technique; Methane; Self-diffusion coefficient; Argon; Critical review; Krypton; *14831. SP305-7.*
- Measurement technique; Si; Tungsten wires;  $\text{CaF}_2$ ; Density; *J.78A No. 1, 9-13 (1974). SP305-6.*
- Measurement techniques; Antenna electromagnetic interference standards; Calibration; *11460. SP305-2.*
- Measurement techniques; Metals; Reflectance; Surface effect; Thermal radiation properties; Absorbance; Electromagnetic theory; Emittance; *13684. SP305-5.*
- Measurement techniques; Metrology; Education for metrology; Measurements; *11900. SP305-3.*
- Measurement techniques; Performance requirements; Building research; Building standards; *14564. SP305-6.*
- Measurement techniques; Periodic surfaces; Polarization; Random surfaces; Reflectance; Reflectance of coherent radiation; Scattering; Scattering theory; Surface roughness; Transmission; Bibliography; Emittance; Heat transfer; *J. Res. NBS No. 2, 207-220 (1976). SP305-8.*



Measurement techniques; Prism-spectroradiometer; Radiometry; Sources; Spectral irradiance; Filter-spectroradiometer; 10428. SP305-1.

Measurement techniques; Radio frequency; Uncertainties of measurement; Accuracy; Calibration services; Measurements; TN373. SP305-1.

Measurement techniques; Standards; Building research; Criteria; Energy; Engineering; Industry construction; SP439. SP305-8.

Measurement techniques; Ventilation of office buildings; Air infiltration; Energy conservation; 16342. SP305-8.

Measurement technology; Microelectronics; Process control; Reliability; Semiconductors; Silicon; Test patterns; Data acquisition; Data display; Integrated circuits; SP 400-15. SP305-8.

Measurement technology; Microelectronics; MOS devices; Process control; Reliability; Semiconductor devices; Surgical implants; Cardiac pacemaker; Data banks; Failure analysis; Failure modes; Hermeticity; Hybrid devices; Leak testing; SP400-28. SP305-8.

Measurement technology; Reverberation rooms; Sound measurement; Sound power; Sound power levels; NBS-GCR-76-69. SP305-8.

Measurement technology; Semiconductor devices; Semiconductor process control; Silicon; Automation; Electronics; Integrated circuits; NBS-GCR-76-64. SP305-8.

Measurement temperature; Medicine temperature; Microwave diathermy fields; Temperature measurement; 16441. SP305-8.

Measurement theory; Adiabatic shield; Calorimetric errors; Calorimetry; Isoperibol; SP338, pp. 23-59. SP305-2.

Measurement theory; Calorimetry; Energy equivalents; Energy measurement; Heat transfer; Internal energy measurement; Isoperibol calorimeters; 13474. SP305-5.

Measurement theory; Calorimetry; Energy equivalents; Energy measurement; Heat transfer; Internal energy measurement; Isoperibol calorimeters; 15102. SP305-7.

Measurement tools; Performance measurement; Computer architecture; Functional evaluation; Hardware monitor; SP406, pp. 75-78. SP305-7.

Measurement uncertainties; Spectral emittance; Thermal radiation; Thorium; Zirconia; Alumina; Ceramic oxides; Emittance; Error sources; Magnesia; J70A5-412, 393-415 (1966). SP305.

Measurement uncertainty; Reliability of working instruments; Calibration intervals; Economy in adjusting quality level; SP335, pp. 57-64. SP305-3.

Measurement uncertainty; Solar energy systems evaluation; Thermal performance; Data requirements; NBSIR 76-1137. SP305-8.

Measurement unit; Numeric; Quantity calculus; Quantity equation; Abstract unit; Angle; Dimensional analysis; 9979. SP305-1.

Measurement unit; Process variability; Uncertainty; Measurement algorithm; Measurement assurance; Measurement process; Monogr. 149. SP305-7.

Measurement units; Metric units; SI; Systems of units; Units of measurement; International System of Units; 15481. SP305-1.

Measurement units; Physical constants; SI units; Gyromagnetic ratio; 13311. SP305-5.

Measurement units; Physical constants; SI units; Gyromagnetic ratio; 16395. SP305-8.

Measurement voltages; Microwave current; Microwave voltages; Transmission-line voltages; Voltage measurements; Current measurement; J72C No. 1, 61-79 (1968). SP305-1.

Measurements; Amplifiers; Capacitors; Dielectric constant; Dissipation factor; 13165. SP305-5.

Measurements; Electrical testing; Conductance; Dielectric conductance; Conductivity; Volume conductivity; Insulation conductance; Resistance; Dielectric resistance; Resistivity; Dielectric constant; Permittivity; Dissipation factor; Loss index; 9174. SP305.

Measurements; Electromagnetic compatibility; EMC instrumentation; 16229. SP305-8.

Measurements; Measurement techniques; Metrology; Education for metrology; 11900. SP305-3.

Measurements; Measurement techniques; Radio frequency; Uncertainties of measurement; Accuracy; Calibration services; TN373. SP305-1.

Measurements; Medical; Radiation; Standards; Calibrations; Environment; SP456. SP305-8.

Measurements; Methane; Mixtures; Thermodynamic; Density; Dielectric constant; Electromagnetic properties; Equation of state; Ethane; Hydrocarbon; Liquefied natural gas; 16631. SP305-8.

Measurements; Metrology; National Bureau of Standards; National Measurement System; National Standard Reference Data System; Radio Standards Laboratory; Reference data; Calibration; Cost-effectiveness; Data; Economic growth; 11036. SP305-2.

Measurements; MeV range 2 to 4.5; Neutrons; Time-of-flight; Hauser-Feshbach; Inelastic-scattering; SP425, pp. 871-874. SP305-7.

Measurements; Microelectronics; Process control; Reliability; Semiconductor; Automation; Integrated circuits; 16116. SP305-8.

Measurements; Microstandards; Standards; Analytical detection limits; Ion exchange resins; 10640. SP305-1.

Measurements; Microstandards; Standards; Analytical detection limits; Ion exchange resins; 10948. SP305-2.

Measurements; Microwave; Phase shift; Standards; UHF; Uncertainties; 9697. SP305-1.

Measurements; Microwave; Physical properties; Physical quantities; Physics; Standards; Standards laboratory; Time and frequency; High frequency; 10189. SP305-1.

Measurements; Microwave; Skin depth; Attenuation; Clay; Gravel; NBSIR 74-381. SP305-7.

Measurements; Microwave; 11113. SP305-2.

Measurements; Minicomputer; Shakers; Standards; Transducers; Vibration; Vibration exciters; Vibration pickups; Acceleration; Automation; Calibration; NBSIR 74-482. SP305-7.

Measurements; Model; Rheology; 11757. SP305-2.

Measurements; National Measurement System; Cryogenics; Data; Flowmeter; Instrumentation; NBSIR 75-825. SP305-8.

Measurements; National Measurement System; Standards; Thermometry; Data; International Practical Temperature Scale; NBSIR 75-932. SP305-8.

Measurements; Near field; Non-planar; Patterns; Scanning; Spherical; Symmetry; Antennas; Arrays; Coordinate transformations; Data processing; Group representations; NBSIR 75-809. SP305-7.

Measurements; Near-field; Antennas; Extrapolation; 14784. SP305-7.

Measurements; Near-field; Antennas; Error analysis; 15664. SP305-7.

Measurements; Network analyzer; Phase; Reflection coefficient; Attenuation; Automated; Bolometer mount efficiency; 16509. SP305-8.

Measurements; Nondestructive evaluation; Productivity; Reliability; Reproducibility; Safety; Accuracy; Conservation; 16301. SP305-8.

Measurements; Nuclear; Safeguards; Standards; Fuel; Materials accountability; 16481. SP305-8.

Measurements; Operational amplifiers; Ultra low frequency; Bridge; Dielectrics; Dielectric measurements; Dielectric



- phenomena; Electrical measurements; Low frequency; 10649. SP305-1.
- Measurements; Phase; Digital; Phasemeter; Logic circuit; Low frequency; *J71C3-257, 227-238 (1967)*. SP305.
- Measurements; Powder-patterns; Reference-intensities; Standard; Structure; X-ray diffraction; Constants; Crystal; Lattice; *Mono. 25, Section 5*. SP305.
- Measurements; Powder-patterns; Reference-intensities; Standard; Structure; X-ray diffraction; Constants; Crystal; Lattice; *Monogr. 25, Section 6*. SP305-1.
- Measurements; Precision; Radioactivity standards; Standards accuracy; Certificates; Combination of errors; Commercial standards; 9732. SP305-1.
- Measurements; Precision; Standard error; Systematic error; Uncertainty; Accuracy; Calibrations; Expression of uncertainty; 10544. SP305-1.
- Measurements; Precision; Standard error; Systematic error; Uncertainty; Accuracy; Calibrations; Expression of uncertainty; 11029. SP305-2.
- Measurements; Precision measurements; Conference; Conference on Precision Electromagnetic Measurements; Electromagnetic measurements; 10188. SP305-1.
- Measurements; Quadrature deviation; Ratio calibration; Transformer; Two-stage voltage transformer; Voltage divider; Voltage ratio; Calibration; In-phase deviation; Inductive voltage divider; *J72C No. 1, 49-59 (1968)*. SP305-1.
- Measurements; Quality control; Standardization; Testing facilities; Bolivia; *NBSIR 76-1099*. SP305-8.
- Measurements; Radiated emission; Radiation resistance; TEM cells; 16469. SP305-8.
- Measurements; Radiation; Regulations; States; Abstract; Compromise; Ineffectiveness; *SP456, pp. 31-36 (Nov. 1976)*. SP305-8.
- Measurements; Radio; Radio frequency; Accuracy; Calibration; IEEE; 11199. SP305-2.
- Measurements; Radio; Standards; International Scientific Radio Union (URSI); 10243. SP305-1.
- Measurements; Reflectometer; Microwave; Impedance; *J70C3-227, 165-168 (1966)*. SP305.
- Measurements; Resistance; Resistivity; Conductance; Conductivity; Dielectric; 9198. SP305.
- Measurements; Second virial coefficient; Adsorption, gas on metal; Argon, compressibility factor of; Burnett data reduction; Carbon dioxide, second virial coefficient of; Compressibility factor; Gas; *J75C Nos. 3 and 4, 163-172 (1971)*. SP305-3.
- Measurements; Semiconductors; Cryogenic heat transfer; 9751. SP305-1.
- Measurements; Shakers; Standards; Transducers; Vibration; Vibration exciters; Vibration pickups; Acceleration; Automation; Calibration; 15569. SP305-7.
- Measurements; SI; Treaty of the Metre; Base units; Centennial volume; History of SI; International Bureau of Weights and Measures; International System of Units; *SP420*. SP305-7.
- Measurements; Smoke; Smoke and flame spread; Temperature; With and without forced air; Velocity; Carpets with and without underlayment; Corridor fires; Energy models; Finished interior; Full scale experiments; Interaction; 15230. SP305-7.
- Measurements; Standard; Dimensional; Gage; Instrument; Laser; Length; Machine; *NBSIR 75-926*. SP305-8.
- Measurements; Standards; Transmission line; Waveguide; Air lines; Coaxial; Impedance; 9809. SP305-1.
- Measurements; Standards; Tutorial; Microwave; Attenuation; *Mono. 97*. SP305.
- Measurements; Standards; Waveguide; Attenuation; Coaxial; 10044. SP305-1.
- Measurements; Standards, uses of radiation; Ionizing radiation; *SP456, pp. 13-24 (Nov. 1976)*. SP305-8.
- Measurements; Superconductivity; Electronics; Low temperature; 13237. SP305-5.
- Measurements; Superconductivity; High frequency; Infrared; Josephson effect; 16498. SP305-8.
- Measurements; Surface; Testing; Absorption; Coatings; H power laser; *SP387, pp. 189-193*. SP305-5.
- Measurements; X-ray interferometry; Wave optics; Diffraction theory; Lattice constants; 12285. SP305-3.
- Measurements and standards; Measurement system; National Conference of Standards Laboratories; Proceedings, 1 Standards Laboratory Conference; Traceability; United States measurement system; Accuracy; Calibrations; *M291*. SP3
- Measurements at high frequencies; Electrical quantities; Frequencies; International comparison of measurements; 10062. SP305-1.
- Measurements at high temperatures; Millisecond resolution; Pulse calorimetry; Solid electrical conductors; 13276. SP305-5.
- Measurements at 0 °C; Nuclear quadrupole resonance thermometry; Potassium chlorate; *J71A2-442, 125-126 (1971)*. SP305.
- Measurements, bicycle braking; Pitchover; Standards, bicycle safety; Test method, bicycle; Bicycle brakes; Brakes, bicycle; Dynamics, bicycle; Error analysis; Friction, tire/pavement; Kinetics, bicycle; *NBSIR 75-786*. SP305-8.
- Measurements, dielectric; Measurements, electrical; Ultra-frequency; Bridge; Dielectric measurements; Dielectric; Electrical measurements; Low frequency; 9772. SP305-1.
- Measurements, electrical; Ultra-low frequency; Bridge; Dielectric measurements; Dielectrics; Electrical measurements; Low frequency; Measurements, dielectric; 9772. SP305-1.
- Measurements in molten glasses; Phase-lock detection systems; Shear relaxation; Ultrasonic interferometer; High temperature ultrasonic interferometer; Lock-in amplifier systems; 10710. SP305-1.
- Measurements system; Radioisotopes; Radiopharmaceuticals; Reference sources; Standards; SRM's; Biomedical; Clinical; 16151. SP305-8.
- Measurements-standards; NBS-industry; Transfer; Benefits, industry-society; Materials research; 16280. SP305-8.
- Measures; Metric system; Standards; Units of measurement; Weights; History of measurement standards; *SP447*. SP305-8.
- Measures; National Conference; Reports; Weights; Indicators; *SP377*. SP305-5.
- Measures; Packages; Weights; Commerce; Consumers; Labeling; 10567. SP305-1.
- Measures; Performance; Usability; Communications network; Computer networks; Cost; Interactive service; Measurement; *TN908*. SP305-8.
- Measures for air quality; Metric chart; Rf measurements; Relay capacities; Semiconductor materials test; Speed of light; *TNB 57, No. 1, 1-24 (1973)*. SP305-5.
- Measures of computer performance; System effectiveness; Computer performance evaluation; Efficiency measurements; data; *SP406, pp. 61-64*. SP305-7.
- Measures of effectiveness; Multidimensional decisions; Reliability; Subjective evaluation; Maintainability; *SP361, Vol. 1, pp. 63-71*. SP305-4.
- Measures of risk; Standards; User identification; Brooks B. Computer security; Congressional concern; Controlled accessibility; Data sensitivity; 15498. SP305-7.
- Measures of speech quality; Perception of speech; Sound reproduction; Speech communication; Speech intelligibility; Telephony; 10524. SP305-1.
- Measuring area dentures; Swallowing pressure on denture; Variation in pressure; Brinell indentation used to measure force; Clinical; 9970. SP305-1.

asuring energy utilization; Miners (communications); Atomic timekeeping; Building technology; Disaster studies; Energy-saving building construction; Energy squeeze; Insulation; *DIM/NBS 58*, No. 3, 49-72 (1974). **SP305-6.**

asuring instruments; Mechanical properties; Mechanical testing; Paper; Precision; Reliability; Reproducibility; Standards; Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; *UT 706*. **SP305-2.**

asuring instruments; Physical constants; Physical standards; Calibration; Instrument specifications; International standards; Measurement history; *12413*. **SP305-4.**

asuring instruments; Research assistants; Test device evaluation; Criteria; Decision making; Human systems; *16091*. **SP305-8.**

asuring system; Phase; Power; Radiometry; Resonant cavity; Voltage; Waveform; Waveguide junction; Admittance; Antenna; Attenuator; Bolometer; Calorimetry; Horn; Impedance; Interferometry; *SP300, Volume 4*. **SP305-2.**

Technical polishing and grinding; Microtwin; Transmission Electron microscopy; Aluminum oxide; Dislocations; *12952*. **SP305-4.**

Technical; Polyethylene; Relaxation; Solvent; Unit cell; Anisotropy; Density; Lamella thickness; *12824*. **SP305-4.**

Technical; Response; Strain; Cable; Coaxial; *NBSIR 73-418*. **SP305-6.**

Technical analogy; Superconducting devices; Josephson effect; *12625*. **SP305-4.**

Technical and structural components; Polymer processed mechanical and structural components; Structural and mechanical components; Components, structural; Dry powder painting; *SP452*, pp. 14-24 (Sept. 1976). **SP305-8.**

Technical behavior; Adsorption; Ceramics; Drilling; Environmental effects; Fracture; Glasses; Machining; *SP348*, pp. 141-153. **SP305-4.**

Technical behavior; Melting; Model potential of Heine and barenkov; Nickel aluminate; Order-disorder; Peierls barriers; Pt-Cu; Silver; tellurium ( $Ag_2Te$ ); Ti-Al; Ti-Co; TiFe; TiNi; TiTe; *SP323*, pp. 483-492. **SP305-4.**

Technical breakdown; Microfibrillar structure; Radical formation; Tie molecules; Chain rupture; Crystalline polymer; ESR investigation of radicals; Fibrous structure; *15476*. **SP305-7.**

Technical effects of machining; Removal and shaping of ceramics; Surface treatment; Ceramic machining; Ceramics; *SP348*. **SP305-4.**

Technical equivalent of heat; B.A. resistance unit; Equivalent; Joule; Joule centennial; *10359*. **SP305-1.**

Technical excitation; Piezoelectric accelerometer; Usable excitation range; Electrical excitation; Lowest resonant frequency; *TN487*. **SP305-1.**

Technical failure; Bearing failure; Bearing loading; Bearing lubrication; Bearing misalignment; Bearing temperature; *SP423*, pp. 67-84 (Apr. 1976). **SP305-8.**

Technical failure; Crack propagation; Failure analysis; Failure prevention; Fracture; Fractography; *SP423*, pp. 3-11 (Apr. 1976). **SP305-8.**

Technical failure; Mechanical reliability; Stress corrosion cracking; Brittle fracture; Economics of failure prevention; Fatigue failure; *SP423*. **SP305-8.**

Technical failure; Mechanical malfunction; Quality assurance; Reactor systems and components; Safety standards; Failure prevention; *SP423*, pp. 143-151 (Apr. 1976). **SP305-8.**

Technical failure; Mechanical integrity; Mechanical reliability; Performance envelope; Predicting product reliability; Design engineering; Material deterioration; *SP423*, pp. 199-208 (Apr. 1976). **SP305-8.**

Technical failure; Mechanical reliability; Safety standards; Conservation of material resources; Failure prevention; Government action; *SP423*, pp. 221-225 (Apr. 1976). **SP305-8.**

Mechanical failure; Metal coatings; Plated coatings; Polymer coatings; Solid film lubricants; Sputtered coatings; Wear; Barrier film; Chemical coatings; Failure prevention; *SP452*. **SP305-8.**

Mechanical failure; Microstructural effects on mechanical failure; Continuum cracks; Continuum mechanics; Failure mechanisms; *SP423*, pp. 181-191 (Apr. 1976). **SP305-8.**

Mechanical failure; Microwaves; Oscillator calibration; Big G; Bolometer calibration; Earthquake prediction; Frequency standard systems; Heat-pipe ovens; Hoover; Liquefied natural gas; Magnetometer; *DIM/NBS 58*, No. 8, 169-192 (1974). **SP305-6.**

Mechanical failure; Potential safety conditions; Proliferation of specifications; Environmental extremes; Fail-safe operation; High strength materials; *SP423*, pp. 193-197 (Apr. 1976). **SP305-8.**

Mechanical failure; Product performance; Product reliability; Product testing; Consumer products; Marketing; *SP423*, pp. 209-212 (Apr. 1976). **SP305-8.**

Mechanical failure; Safety standards; Transportation safety; Effects of mechanical failure on environment; Failure prevention; Government action; *SP423*, pp. 153-163 (Apr. 1976). **SP305-8.**

Mechanical failure; Safety standards; Consumer product safety; Failure prevention; Government action; Government responsibility; *SP423*, pp. 215-219 (Apr. 1976). **SP305-8.**

Mechanical failure; Surface pitting; Abrasive wear; Adhesive wear; Gear failure; Machine component failure; *SP423*, pp. 55-66 (Apr. 1976). **SP305-8.**

Mechanical failure; Tribology; Wear; Economic savings of failure prevention; Friction; Lubrication; *SP423*, pp. 117-139 (Apr. 1976). **SP305-8.**

Mechanical fasteners; Mechanical fastenings; Nails; Screws; Staples; Bolts; Building assemblies; Building components; Building constructions; Framing wood; Improved nails; *SP361, Vol. 1*, pp. 633-642. **SP305-4.**

Mechanical fastenings; Nails; Screws; Staples; Bolts; Building assemblies; Building components; Building constructions; Framing wood; Improved nails; Mechanical fasteners; *SP361, Vol. 1*, pp. 633-642. **SP305-4.**

Mechanical heat switch; Pressed contacts; Thermal conductance of contacts;  $^3He$  cryostat; Low temperature; Low temperature calorimetry; *11270*. **SP305-2.**

Mechanical heating; Radiation quality; Radiation quantity; Electron temperature; Line-blanking; *12097*. **SP305-3.**

Mechanical impedance; Noise; Building acoustics; Force platforms; Impact noise; Instrumentation; *15462*. **SP305-7.**

Mechanical impedance; Random vibration; Test; Transfer impedance; Transmissivity equalization; Vibration; Acceleration response; Evaluation; Fatigue life; Lumped parameter system; *SP336*, pp. 509-524. **SP305-3.**

Mechanical integrity; Mechanical reliability; Performance envelope; Predicting product reliability; Design engineering; Material deterioration; Mechanical failure; *SP423*, pp. 199-208 (Apr. 1976). **SP305-8.**

Mechanical load protection; Surge current; Time delay; Electronic circuit breaker; *11543*. **SP305-2.**

Mechanical malfunction; Quality assurance; Reactor systems and components; Safety standards; Failure prevention; Mechanical failure; *SP423*, pp. 143-151 (Apr. 1976). **SP305-8.**

Mechanical model; Modulation noise; Noise; Noise model; Noise simulation; Precision measurements; Random noise; Reasonable perturbations; Spectral density; 1/f noise; Flicker noise; Low frequency noise; *10555*. **SP305-1.**

Mechanical power; Noise; Pressure; Quality control; Safety; Testing; Engineering, instrumentation and techniques; Fluids; Force; Hydraulic equipment; *16452*. **SP305-8.**

Mechanical properties; Compilation; Copper; Copper alloys; Low temperature; *Mono. 101*. **SP305.**

- Mechanical properties; Copper; Copper alloys; Low temperatures; *10175. SP305-1.*
- Mechanical properties; Cryogenics; Fatigue; Fiber composites; Liquid helium; Low temperature tests; *16194. SP305-8.*
- Mechanical properties; Mechanical testing; Paper; Precision; Reliability; Reproducibility; Standards; Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; Foil paper; *11706. SP305-2.*
- Mechanical properties; Metals; Biomaterials; Corrosion; Implant materials; *NBSIR 73-420. SP305-6.*
- Mechanical properties; Metals; Commercial alloys; Data sources; *SP396-1. SP305-6.*
- Mechanical properties; Metals; Plastics; Review; Thermal properties; Composite materials; Electrical properties; *13554. SP305-5.*
- Mechanical properties; Metals research; Specifications; Adhesives; Composite restorative materials; Dental materials research; Dental restorative materials; Future dental needs; Laboratory testing and clinical research; *SP354. SP305-4.*
- Mechanical properties; Methane; Thermodynamic properties; Transport properties; Bibliography; Equation of state; Low temperature; *TN367. SP305-1.*
- Mechanical properties; Microscopes; Microstructure; Particle distribution; Phase mapping; Quality control; Scanning; Television systems; Variability; Variance (statistics); Aggregates; Anisotropy; Automation; Computers; *12935. SP305-4.*
- Mechanical properties; Microstructure; Stoichiometry; Transmission electron microscopy; Vapor deposition; Cadmium telluride; Growth kinetics; *SP462, pp. 100-118 (Dec. 1976). SP305-8.*
- Mechanical properties; Misfit strain; Precipitation hardening; Activation energy; Cross slip; *SP317, pp. 1115-1134. SP305-3.*
- Mechanical properties; Nickel alloys; Superconducting machinery; Thermal conductivity; Composites; Copper alloys; Cryogenic temperatures; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; *NBSIR 75-828. SP305-8.*
- Mechanical properties; Nickel alloys; Superconducting machinery; Thermal conductivity; Aluminum alloys; Composites; Cryogenic temperatures; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; *NBSIR 76-839. SP305-8.*
- Mechanical properties; Nickel alloys; Phenolformaldehyde; Stainless steels; Superconducting machinery; Thermal conductivity; Titanium alloys; Aluminum alloys; Composites; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Cryogenic temperatures; *NBSIR 76-848. SP305-8.*
- Mechanical properties; Nickel steels; Crack propagation; Cryogenics; Fracture toughness; *15530. SP305-7.*
- Mechanical properties; Nondestructive testing; Ultrasonic techniques; Dental amalgam; Dental materials; Elastic properties; *SP354, pp. 161-168. SP305-4.*
- Mechanical properties; Nondestructive evaluation; Pull-out strength; Splitting tensile strength; Compressive strength; Concrete; Maturity; *TN932. SP305-8.*
- Mechanical properties; Nondestructive evaluation (NDE); Radiography; Welding; Fracture control; Fracture mechanics; *NBSIR 76-1154, Vol. 1. SP305-8.*
- Mechanical properties; Nondestructive evaluation (NDE); Radiography; Welding; Fracture control; Fracture mechanics; *NBSIR 76-1154, Vol. 2. SP305-8.*
- Mechanical properties; Nuclear data; Standard reference data; Solid state data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; *TN747. SP305-4.*
- Mechanical properties; Nuclear data; Solid state data; Standard reference data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; *TN553. SP305-2.*
- Mechanical properties; Nuclear data; Solid state data; Standard reference data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; *TN553. SP305-2.*
- Mechanical properties; Optical properties; Specific heat; Thermophysical properties; Transport properties; Tritium; Vapor pressure; Compilation; Density; Deuterium; Electrical properties; Enthalpy; Entropy; Fixed points; Hydrogen; *TN648. SP305-5.*
- Mechanical properties; Optical properties; Residual stress; Ceramics; Cracks; Dislocations; Electrical properties; Electro-optical; Ferrite; Machining; Magnetic properties; *SP348, pp. 343-352. SP305-4.*
- Mechanical properties; Optical properties; Plastic film; Poly(ethylene terephthalate); Proton damage; Proton energy; Radiation effect; Radiation intensity; Recovery; Solubility; Space simulation; Temperature effect; Tests; *SP336, pp. 32-344. SP305-3.*
- Mechanical properties; Organic fibers; Review; Steel fibers; Cement; Concrete; Fiber-reinforced cements; Fiber-reinforced concretes; Glass fibers; *15028. SP305-7.*
- Mechanical properties; Outgassing; Pressure measurement; Rock mechanics; Space environment simulation; Ultrahigh vacuum; Anisotropy; Compression tests; Mass spectroscopy; *SP336, pp. 209-223. SP305-3.*
- Mechanical properties; Particulate composites; Shear modulus; Theory of elasticity; Bulk modulus; Composite materials; Elastic constants; Filled polymers; *J.78A No. 3, 355-366 (1974). SP305-6.*
- Mechanical properties; Particulate composites; Shear modulus; Theory of elasticity; Composite materials; Elastic constants; Filled polymers; *J.79A No. 2, 419-423 (1975). SP305-7.*
- Mechanical properties; Particulate composites; Poisson's ratio; Shear modulus; Young's modulus; Bulk modulus; Composite materials; Elastic constants; Filled polymers; *16264. SP305-8.*
- Mechanical properties; Particulate composites; Poisson's ratio; Young's modulus; Composite materials; Elastic constants; Filled polymers; *J. Res. 80A No. 1, 45-49 (1976). SP305-8.*
- Mechanical properties; Phonon scattering; Thermal resistivity; Cottrell atmospheres; *SP317, pp. 391-394. SP305-3.*
- Mechanical properties; Physical properties; Stability; Fiber structure; Hide; Insulator leather; *9827. SP305-1.*
- Mechanical properties; Plane blending; Dislocation distributions; *SP317, pp. 925-941. SP305-3.*
- Mechanical properties; Plastic deformation; Sapphire; Strength; Alumina; Fracture; *12282. SP305-3.*
- Mechanical properties; Plastic deformation; Sapphire; Sodium chloride; Electron microscopy; Fracture; *NBSIR 73-297. SP305-6.*
- Mechanical properties; Plastics; Polymers; Thermal properties; Compilation; Electrical properties; *13444. SP305-5.*
- Mechanical properties; Plastics; Polymers; Thermal properties; Compilation; Electrical properties; *Monogr. 132. SP305-5.*

mechanical properties; Polymer; Polyurethane; Resilience; Thermal properties; Adhesive; Low temperature; 11515. SP305-2.

mechanical properties; Polymers, dental; Torsion pendulum; Activation energy; Dental materials; Glass, sodium phosphate; Internal friction; SP354, pp. 145-160. SP305-4.

mechanical properties; Precipitation hardening; Thermal activation; Arrhenius law; SP317, pp. 1077-1082. SP305-3.

mechanical properties; Precipitation hardening; Computer simulation; Dislocation motion; SP317, pp. 1083-1098. SP305-3.

mechanical properties; Pressure; Properties; Standards; Standard Reference Materials; Temperature; Thermal; Ceramics; Chemical composition; 12181. SP305-3.

mechanical properties; Recovery; Strengthening; Elastic properties; High-purity aluminium; Lattice defects; 13038. SP305-4.

mechanical properties; Refrigeration; Safety; Superconductivity; Superfluid; Cryogenics; Cryopump; Cryostat; Electrical lead; Heat transfer; 11147. SP305-2.

mechanical properties; Review, thermal properties; Cryogenics; Materials; 15838. SP305-8.

mechanical properties; Rheology; Scalar-potential; Strain-energy; Thermodynamics; Viscoelasticity; Constitutive equation; Continuum mechanics; Elasticity; Isotropy; Material symmetry; 14689. SP305-6.

mechanical properties; Strength; Crack propagation; Fracture; Glass; 13174. SP305-5.

mechanical properties; Stress analysis; Superconducting coil composite; Superconducting wire; Thermal properties; Fiberglass cloth; NBSIR 76-837. SP305-8.

mechanical properties; Stress corrosion; Ultimate strength; Brittle material; Cleavage; Deformation; Fracture; Hydrogen embrittlement; 14476. SP305-6.

mechanical properties; Stress effects; Superconductors; Symposium; Critical current; 16636. SP305-8.

mechanical properties; Structural materials; Superconducting machinery; Thermal conductivity; Composites; Fracture; Liquid helium; NBSIR 74-359. SP305-6.

mechanical properties; Structural materials; Superconducting machinery; Thermal conductivity; Composites; Elastic properties; Fracture; Liquid helium; NBSIR 74-393. SP305-7.

mechanical properties; Structural materials; Superconducting machinery; Thermal conductivity; Composites; Elastic properties; Fracture; Liquid helium; NBSIR 75-810. SP305-7.

mechanical properties; Thermal activation; Bordoni-peaks; Dislocation motion; Kink relaxation; SP317, pp. 1137-1156. SP305-3.

mechanical properties; Thermodynamic properties; Transport properties; Air; Bibliography; Equation of state; Low temperature; TN383. SP305-2.

mechanical properties; Titanium alloy; Electron beam welding; Fatigue; Fracture toughness; Low temperature tests; NBSIR 76-836. SP305-8.

mechanical properties, dental materials; Rocking beam oscillator; Stress relaxation; Torsion pendulum; Viscoelastic methods; Amalgam, dental; Creep; Dental materials; Denture base resins; Indentation test method; SP354, pp. 127-144. SP305-4.

mechanical properties, electrodeposited brass; Properties, electrodeposited brass; Tensile strength, brass; Wear rate, brass; Density, brass; Ductility, brass; Electrical resistivity, brass; Electrodeposited brass; Electroplated brass; Internal stress, brass; 15559. SP305-7.

mechanical properties of dental materials; Rheological properties of dental amalgam; Amalgam, dental; Correlation of laboratory and clinical evaluations; Creep of dental amalgam; Dental materials; Dynamic creep; SP354, pp. 177-180. SP305-4.

Mechanical properties of GRP; Pultruded rod; Reinforced plastics, rod and rope; Rope, GRP; Static fatigue of GRP; Aeolian vibration, simulated; Composite materials; End fittings for GRP rod and rope; Grips, guy; Guys, antenna; 13392. SP305-5.

Mechanical properties of GRP rod; Pultrusion; Reinforced plastic rod; Stress rupture of GRP rod; Composite materials; End fittings for FRP rod; Environmental resistance of GRP rod; Fiber-reinforced-plastic rod; Glass-reinforced-plastic rod; Guys, antenna; NBSIR 73-233. SP305-6.

Mechanical property; Modulus; Neoprene; Rubber; Tensile strength; Ultimate strength; Glassy state; Low temperature; 10777. SP305-1.

Mechanical property equipment; Stainless steel; Cryostat; Fatigue; Impact; Low temperature; J75C No. 2, 95-98 (1971). SP305-3.

Mechanical property equipment; Stainless steel; Fatigue; Fracture; Impact; Low temperature; TN609. SP305-3.

Mechanical pump; Shaft seal; Closed pumping system; He-4 dilution refrigerator; Mass spectrometer leak detector; 12235. SP305-3.

Mechanical quantities; National Measurement System; Optical quantities; Thermal quantities; Time and frequency; Acoustic quantities; Electrical quantities; Electromagnetic quantities; End-use measurements; Ionizing radiation; Measurement activities; NBSIR 75-943. SP305-8.

Mechanical quantities; National measurement system; Optical quantities; Surface properties; Thermal quantities; Time and frequency; Acoustics; Atomic properties; Economics; Electrical quantities; Ionizing radiation; NBSIR 75-947. SP305-8.

Mechanical relaxation; Metal borides; Optical properties; Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Fracture; TN514. SP305-2.

Mechanical relaxation; Methyl branches; Paraffins; Polyethylene; Potential energy calculations; Relaxation strength; Two-site model; 14752. SP305-7.

Mechanical relaxation; Methyl branches; Paraffins; Polyethylene; Potential energy calculations; Relaxation mechanism; Relaxation strength; Site model; 15329. SP305-7.

Mechanical relaxation; Oriented lamella; Torsion pendulum;  $\alpha$ -modification;  $\beta$ -modification; Isotactic polypropylene; 11278. SP305-2.

Mechanical relaxation; Oxides; Polymers; Pyrolytic graphite; Transition metal borides; Copper; Creep; Crystal growth; Diffusion; Enthalpy; Evaporation; Fracture; Glass band structure; High temperature materials; Mass transport; Materials properties; TN494. SP305-1.

Mechanical relaxation; Polychlorotrifluoroethylene; Quenched sample; Storage modulus; Tan  $\delta$ ; Torsion pendulum; Varying crystallinities; Apparatus; Isothermally crystallized sample; Loss compliance; Loss modulus; 9441. SP305.

Mechanical relaxation; Polychlorotrifluoroethylene; Polyethylene; Polymer; Semicrystalline; Vacancy; Annealing; Chain fold; Chain rotation; Chain twisting; Defect; Dielectric relaxation; 9462. SP305.

Mechanical relaxation; Tetraonacontane; Chain folds; Differential scanning calorimetry; Linear polyethylene fractions; Low angle x ray; 16289. SP305-8.

Mechanical reliability; Accelerated testing; Cumulative damage; Failure; Life testing; SP336, pp. 457-471. SP305-3.

Mechanical reliability; Performance envelope; Predicting product reliability; Design engineering; Material deterioration; Mechanical failure; Mechanical integrity; SP423, pp. 199-208 (Apr. 1976). SP305-8.

Mechanical reliability; Safety standards; Conservation of material resources; Failure prevention; Government action;



- Mechanical failure; *SP423*, pp. 221-225 (Apr. 1976). **SP305-8.**
- Mechanical reliability; Stress corrosion cracking; Brittle fracture; Economics of failure prevention; Fatigue failure; Mechanical failure; *SP423*. **SP305-8.**
- Mechanical response; Mechanics; Elastic strain; Field theories; Finite elastic strain; *10794*. **SP305-1.**
- Mechanical shock; Shock generator; Accelerometer; Calibration; FFT; Fourier transform; Fourier transform frequency; *16128*. **SP305-8.**
- Mechanical strain; Modulation technique; Nickel; Soft x-ray; Copper; Electronic density of states; *SP323*, pp. 281-285. **SP305-4.**
- Mechanical strength; Microstructure; Optical absorption; RbCl;  $\text{SrCl}_2$ ; Double-doped KCl laser windows; Grain boundary stability; Hot forging; KCl; *SP462*, pp. 82-86 (Dec. 1976). **SP305-8.**
- Mechanical systems; Building design; Energy conservation; *TN789*. **SP305-5.**
- Mechanical systems; Building design; Building performance; Building research; Building systems; Energy conservation; Energy use; *14252*. **SP305-6.**
- Mechanical systems; Pollution; Pressure loss; Ventilation; Exchanger dimensions; Frost formation; Heat exchanger; Heating costs; *TN710-5*. **SP305-4.**
- Mechanical testing; Nitrides; Oxides; Strengths; Carbides ceramics; Fracture; Grain size; Grinding; Hardness; *SP348*, pp. 365-375. **SP305-4.**
- Mechanical testing; Paper; Precision; Reliability; Reproducibility; Standards; Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; Foil paper; Instrument characteristics; *11706*. **SP305-2.**
- Mechanical testing; Plasticity; Polyvinyl chloride; Servo-hydraulic system; Viscoelasticity; Yield point; Biaxial; Fatigue; Fracture; Laboratory automation; *16626*. **SP305-8.**
- Mechanical tests; Modulus of rupture tests; Substrates; Surface properties; Aluminum oxide; Bending; Brittleness; Ceramics; Electronics; Flexural strength; Fractures (materials); *12861*. **SP305-4.**
- Mechanical tests; Plastic deformation; Proportional limit; Crack propagation; Determination of stress; Measurement; *16468*. **SP305-8.**
- Mechanical tests; Product standards; Safety; Consumer products; Flammable liquid containers; Gasoline cans; *NBSIR 74-614*. **SP305-7.**
- Mechanical tests; Titanium alloys; Crack propagation; Cryostats; Fracture tests; Low temperature tests; *16640*. **SP305-8.**
- Mechanical thermal valve; Refrigeration, solid-state;  $\text{SrTiO}_3$ ; Adiabatic polarization; Cooling technology; Dielectric cooling; Glass-ceramics; Magnetic thermal valve; *14304*. **SP305-6.**
- Mechanical translation; Glossary storage; Machine translation; *10774*. **SP305-1.**
- Mechanical translation system; Morphological classification; Translation system; Linguistic work; *9205*. **SP305.**
- Mechanically actuated switch; Perimeter sensor; Switch; Burglar alarm sensor; Burglar alarm system; Door switch; *14679*. **SP305-6.**
- Mechanics; Elastic strain; Field theories; Finite elastic strain; Mechanical response; *10794*. **SP305-1.**
- Mechanism; Methane; Olefins; Paraffins; Propylene; Pyrolysis; Rate constants; Unimolecular theory; Acetylene; Dissociation; Elementary reactions; Ethane; Ethylene; Hydrocarbons; Kinetics; *SP357*, pp. 17-25. **SP305-4.**
- Mechanism; Microbial corrosion; Mild steel; Oxidizing agent; Schreiberstein; Sulfate-reducing bacteria; Vivianite; Anaerobic corrosion; Cathodic depolarization theory; Charles Thom Award; *Desulfovibrio desulfuricans*; Hollow whiskers; *1523*. **SP305-7.**
- Mechanism; Organic compound; Oxidative degradation; Peroxide radical isomerization; Poly(ethylene oxide); Polymeric; Polypropylene; Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; *SP357*, pp. 85-92. **SP305-4.**
- Mechanism; Organic compounds; Rate constants; Atomic oxygen; Gas phase; Kinetics; *15240*. **SP305-7.**
- Mechanism;  $\text{O}_3$  addition to unsaturates; Oxetane formation; Oxidation; Oxidation; Peroxy radicals; Radical isomerization; Surface effects in oxidation; Termination rates; Transition state for termination; *SP357*, pp. 121-129. **SP305-4.**
- Mechanism; Pervious membrane; Activity; Calcium hydroxide; Dental caries; *14601*. **SP305-6.**
- Mechanism; Phenylhydrazine; Cyclohexane-1,3-dione; Formation; Free-radical; Ionic; *13204*. **SP305-5.**
- Mechanism; Phenylhydrazine; Cyclohexane-1,3-dione; Formation; Free-radical; Ionic; *13679*. **SP305-5.**
- Mechanism; Review; Atomic; Chemical kinetics; Free radicals; Mass spectrometry; *12402*. **SP305-4.**
- Mechanism; Sealed tube dissolution; Antimony; Brilliant green; Dye impurity; Extraction-spectrophotometric; Ferrous and non-ferrous alloys; *9610*. **SP305-1.**
- Mechanism; Silicon carbide; Wear; Alcohol; Glass; *15123*. **SP305-7.**
- Mechanism; Solubility; Bone mineral; Dental caries; Electric currents; *14985*. **SP305-7.**
- Mechanism for diffusion; Random walk; Vacancies; Aton transport; Diffusion in crystals; Kinetic diffusion equations; *15421*. **SP305-7.**
- Mechanism of adsorption; Solution adsorption; Adsorption from solution; Calcium phosphate; Composite adsorption; Isotopic exchange; Kinetics of adsorption; *12249*. **SP305-3.**
- Mechanism of mutarotation; Mutarotation; Pyranose-furanose interconversions; Sugars in solution; Acid-base catalysis in  $\text{D}_2\text{O}$ ; Deuterium isotope effects; D-fructose; D-glucose; Isotope effects; *J.17A2-445*, *137-148* (1967). **SP305.**
- Mechanism of mutarotation reaction; Mutarotases; Mutarotation of sugars; Pseudo-acyclic intermediates in mutarotation; Sugars, mutarotation of; Thermodynamic data for mutarotations; Acid and base catalysts; Catalysis of mutarotation; Deuterium oxide mutarotation of; *14456*. **SP305-6.**
- Mechanism of phase separation; Metastable liquid immiscibility; Microphase separation; Phase diagrams of metastable immiscibility; Spinodal; Structural interpretation of immiscibility; Super-duty silica brick; Glass chromatography; *11902*. **SP305-3.**
- Mechanisms; Molecular reactions; Rate constants; Reaction rates; Arrhenius parameters; Chemical kinetics; Critical review data; Gas phase; *NSRDS-NBS21*. **SP305-2.**
- Mechanisms; Nitrogen; Olefins; Rates; Spectrometry; Atoms; Mass; *9329*. **SP305.**
- Mechanisms; Nondestructive testing; Testing; Accelerated aging; Aging of buildings; Building components; Climate; Criteria; Deterioration; Durability; Materials; *13637*. **SP305-5.**
- Mechanisms; Nonionic or ionic coreactants; Nuclear fluorine; Pentafluorobenzene; Direct replacement; High temperature; *J.70A6-420*, *473-480* (1966). **SP305.**
- Mechanisms; Prevention; Review; Algae; Bacteria; Biological corrosion; Fungi; *14528*. **SP305-6.**
- Mechanisms; Rate constant; Atomic oxygen; Ethylene; Formaldehyde; Kinetics; Mass spectrometry; *10982*. **SP305-2.**
- Mechanisms; Slides; Avalanches; Earthquakes; Falls; Flows; Landslides; *SP444*, pp. III-52-III-71 (Apr. 1976). **SP305-8.**
- Mechanisms of fatigue; Review of fatigue; Fatigue; *14698*. **SP305-6.**
- Mechanistic model for hearing; Auditory detection; Auditory discrimination; Hearing; *10631*. **SP305-1.**



Mechanistic model of hearing; Resolving power of the ear; Auditory analysis; Auditory perception; Communication theory; Ear behavior; Hearing; 10221. SP305-1.

Mechanized; Methodology; Optical-coincidence; Patents; References; Search; Systems; Thinking; Information retrieval; Information storage; 10527. SP305-1.

Mechanized indexing; Selective dissemination systems; Automatic classification; Automatic indexing; Indexer inconsistency; 11141. SP305-2.

Mechanized searching; Patent litigation; Patent Office; Patent system reform; Petty patents; Satellite research centers; Advisers to inventors; Deferred examinations; Innovation; Invention; SP388, pp. 111-115. SP305-6.

Mechanized text editing; Alphanumeric data files; Computer-assisted text preparation; Data retrieval; FORTRAN programs; Free field text files; TN470. SP305-1.

Medal, Ives; Optics, Ives medal; Ives, medal; 14645. SP305-6.

Median; Order statistics; Probability distributions; Robust estimators; Statistical estimation; Weighted means; Wild observations; Asymptotic theory; Efficiency; 10229. SP305-1.

Median significance level; Significance level; Statistical tests; Efficiency of tests; 11345. SP305-2.

Median vents; Penny crack; Contact fracture; Degradation; Hertzian cracks; Indentation fracture; NBSIR 75-730. SP305-7.

Median vents; Penny crack; Contact fracture; Degradation; Hertzian cracks; Indentation fracture; 15822. SP305-8.

Medians; Normal distribution; Order statistics; Probability plot; Statistical methods; Statistics; Tests of distributional hypotheses; Correlation coefficient; 14856. SP305-7.

Medians; Normality; Order statistics; Probability plot correlation coefficients; Probability plots; Statistics; Correlation coefficient; Data analysis; Distribution analysis; Estimation; Fortran subroutine; Lambda distribution; 14341. SP305-6.

Medical; Radiation; Standards; Calibrations; Environment; Measurements; SP456. SP305-8.

Medical applications; Performance criteria; Personnel monitoring; Photographic film; Photons; Radiation measurements; Test patterns; Choice of dosimeters; Electrons; Ferrous sulfate dosimeters; 14095. SP305-6.

Medical automation; Minicomputer-based systems; MUMPS; MUMPS Development Committee; MUMPS Language Standard; Data handling language; Interactive computing; Interpretive computer programming language and operating system; H118. SP305-7.

Medical diagnosis; Microscopy; Pattern recognition; Reconstruction; Scattering; Tissue characterization; Tissue parameters, tissue signature; Tumor; Ultrasonic spectroscopy; Ultrasound; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; SP453. SP305-8.

Medical diagnostics; Radiation safety; Radiation therapy (ultrasonic); Ultrasonics; Electroacoustics; NBSIR 75-937. SP305-8.

Medical facilities; Architecture; Building regulations; Construction standards; Design; Hill-Burton; Hospital design; BSS54, pp. 13-24. SP305-6.

Medical facilities; Medical facility research; Architecture; Design; Hospital design; BSS54. SP305-6.

Medical facilities; Military construction; New generation military hospital; System design; Architecture; Design; Hospital design; BSS54, 1-12. SP305-6.

Medical facilities; Modular design; Performance; Veterans' Administration; Architecture; Building systems; Design; Hospital design; BSS54, pp. 31-44. SP305-6.

Medical facilities; Nursing units; Architecture; Design; Evaluation; Hospitals; BSS54, pp. 63-76. SP305-6.

Medical facilities; Performance; Planning; Programming; Architecture; Building systems; Construction management; Design; Hospital design; BSS54, pp. 49-62. SP305-6.

Medical facilities; Performance specifications; Architecture; Construction; Design; Hospital design; Management; BSS54, pp. 45-48. SP305-6.

Medical facilities; Planning; Veterans' Administration; Criteria; Hospital planning; BSS54, pp. 25-26. SP305-6.

Medical facilities; Planning; Veterans' Administration; Computer-aided planning; Design; Electronic data processing; Hospital planning; BSS54, pp. 27-30. SP305-6.

Medical facilities; Regulatory; Therapy; Traceability; Diagnosis; Measurement accuracy; SP456, pp. 139-146 (Nov. 1976). SP305-8.

Medical facility research; Architecture; Design; Hospital design; Medical facilities; BSS54. SP305-6.

Medical instrumentation; Microcalorimetry; Thermochemistry; Analytical chemistry; Bacterial identification; Biochemistry; Cellular processes; Clinical chemistry; Enzyme activity; Immunochemistry; 13961. SP305-6.

Medical materials; Orthopedic materials; Polymethylmethacrylate, self-curing; Surgical bone cement; Total hip replacement, cement; Acrylic resin; Cement; 15164. SP305-7.

Medical physicist; Radiation measurement; Radiation therapy; Tumor dose; Quality control; SP456, pp. 111-118 (Nov. 1976). SP305-8.

Medical products and standards; Procurement policies; Product testing; Specifications; Unsolicited proposals; VA; Certification programs; ETIP; Incentives; Innovation; Life cycle costing; NBSIR 76-997. SP305-8.

Medical records; Privacy; Recordkeeping practices; Security; Citizen rights; Computers; Confidentiality; Data systems; Health records; Information policy; Management principles; Monogr. 157. SP305-8.

Medical research; Biomedical research; Clinical chemistry; Clinical enzymology; Enzyme standardization; Health science; Hospital laboratory; SP351, pp. 77-159. SP305-4.

Medical technology; Cryogenic fuels; Food preservation; Liquefied natural gas; 11770. SP305-2.

Medical ultrasonics; NSF; RANN; R & D incentives; Tissue characterization; Tissue signature; Ultrasonic diagnosis; Ultrasound; Applied research; Imaging; Instrumentation technology; SP453, pp. 7-10 (Oct. 1976). SP305-8.

Medical usefulness; Microbiology; Proficiency testing; Accuracy; Clinical chemistry; Hematology; 13779. SP305-5.

Medical usefulness; Microbiology, proficiency testing; Accuracy; Clinical chemistry; Hematology; 13404. SP305-5.

Medicine; Nuclear; Power; Radiation; Reactor; Research; Utilities; Biology; Career; Ecological; Electricity; Energy; Environment; Fusion; TN888. SP305-7.

Medicine; Pattern recognition; Trace elements; Air particulates; Blood; Chemistry; Computer graphics; Geochemistry; SP422, pp. 151-162 (Aug. 1976). SP305-8.

Medicine; Standard Reference Materials; Clinical; Measurement; 11486. SP305-2.

Medicine; Standard reference materials; Clinical; Measurement; 11220. SP305-2.

Medicine bottles; Poison packaging; Bottle caps; Child protection; Closure testing; Containers; NBSIR 75-722. SP305-8.

Medicine temperature; Microwave diathermy fields; Temperature measurement; Measurement temperature; 16441. SP305-8.

Medieval windows; Potassium; Sodium; Activation analysis; Archeology; Glass; Manganese; 13171. SP305-5.

Medium effect; Methanol-water solvents; Solubility; Tris(hydroxymethyl)aminomethane; Dissociation constant; J.72A No. 2, 141-148 (1968). SP305-1.

Medium effect; Nonaqueous solvents; PH; Thermodynamics; Acidity; Ion activity; 11249. SP305-2.

Medium effects; Methanol-water solvents; Acidity; Acids; Bases; 9563. SP305-1.

Medium effects; Mixed solvents; Solvation of ions; Solvent effect; Transfer energy; Acidity; 10827. SP305-1.

Medium effects; PH measurements; Acidity; Analysis; Conductance measurements; Electrochemical analysis; Electrochemistry of solutions; Glass electrodes; *TN423. SP305.*

Medium effects; Solvent effects; Acidity; Analysis; Conductance measurements; Electrochemical analysis; Electrochemistry of solutions; Ionic activity; Ion-selective electrodes; PD measurements; PH measurements; *TN453. SP305-1.*

Medium effects; Solvent effects; Standard reference materials; Acidity; Analysis; Conductivity; Electrochemical analysis; Electrochemistry of solutions; Ionic activity; Ion-selective electrodes; PD measurements; PH measurements; *TN503. SP305-1.*

Medium frequency; Polarization; Propagation; Radio; Reflection coefficients; Sky waves; Absorption; Antennas; Broadcasting; Ground waves; Ionosphere; *9551. SP305-1.*

Medium vacuum range; Micromanometer; Stable pressure generation; Vacuum measurements; Calibration; Capacitance-diaphragm gauge; *11442. SP305-2.*

Medium-vacuum measurements; Manometer; Micrometer; U-tube; Vacuum; *TN420. SP305.*

Medium-weight elements; Molybdenum; Quantitative analysis; Tin; X-ray fluorescence; Gamma-excitation; *10365. SP305-1.*

MEDLARS; Microfilm; Photocomposition; Photon; Programming; Text editing; Character generation; Composition language; Computer technology; Computerized text processing; Electronic composition; Electronic computer; Electronic printing; GRACE; Linotron; *SP295. SP305-1.*

Meeting; Neutrons; Nuclear technology; Reactors; Shielding; Cross sections; *10749. SP305-1.*

Meeting report; Novosibirsk; Pressure-broadened line shapes; Soviet Union; Submillimeter waves; High resolution molecular spectroscopy; Lasers; *16010. SP305-8.*

Meeting summary; Refrigeration; Superconductivity; Cryogenic; Helium; *15832. SP305-8.*

Megavoltage radiotherapy; Quality assurance; Calibration; *SP456, pp. 351-358 (Nov. 1976). SP305-8.*

Meinel bands; Molecular spectra; OH; Radiative lifetimes; Spin uncoupling; Vibration-rotation interaction; Vibrational transitions; Einstein coefficients; Line strengths; *14767. SP305-7.*

Melamine dinnerware; Melamine plastic; Alpha-cellulose-filled; Dinnerware; Household alpha-cellulose filled melamine dinnerware; Household use; *PS24-70. SP305-2.*

Melamine plastic; Alpha-cellulose-filled; Dinnerware; Household alpha-cellulose filled melamine dinnerware; Household use; Melamine dinnerware; *PS24-70. SP305-2.*

Melamine resin; Paper; Sucrose; Animal glue; Glucose; Glycerol; Mannitol; *9455. SP305.*

Melamine tableware; Tableware; Alpha-cellulose-filled, heavy-duty; Heavy-duty alpha-cellulose-filled melamine tableware; *PS25-70. SP305-2.*

Melanoma; Nuclear magnetic resonance; Spin-lattice relaxation; Spin-spin relaxation; Tumor; In vivo; *13843. SP305-6.*

Melilitite; Mössbauer spectroscopy; Silicate gels; Silicate synthesis; X-ray powder data; Åkermanite; Crystal chemistry; Crystal growth; Cupric silicate; Flux growth; Ion polyhedron distortion; *J73A No. 1, 69-74 (1969). SP305-1.*

Melosh transformation; Meson spectroscopy; Algebra of currents and quarks; Constituent quarks; Current quarks; Hadronic structure; *15073. SP305-7.*

Melt; Melting point; Nucleation; Polymer; Solution; Surface free energy; Theory; Thermodynamics; Bulk; Chain fold; Crystallization; Fluctuation; Growth; Heat of melting; Homogeneous nucleation; Kinetics; Lamella thickness; *11329. SP305-2.*

Melt; Polyethylene; Solvent; Temperature; Time; Unit cell; Annealing; Crystallization; Deformation; Density; Fold surface; *10897. SP305-2.*

Melt flow rate; Molecular weight distribution; Number average molecular weight; Osmometry; Refractive index; Standard reference material; Viscosity; Weight average molecular weight; Z average molecular weight; Density; Differential refractive index; *SP260-42. SP305-4.*

Melt flow rate; Orifice; Orifice die; Preliminary extrudate; Extrudate; Extrusion plastometer; Load; *J76A No. 2, 146 (1972). SP305-4.*

Melting; Comonomer concentration; Copolymer; Crystallization; Defect energy; Equilibrium dissolution temperature; Equilibrium melting temperature; Fold surface energy; Growth rate; Heat of fusion; Lamella thickness; *1559. SP305-7.*

Melting; Melting point; Molecular weight; Purity; Calorimetry; Cryoscopy; Dilatometry; Freezing; Heat of fusion; *1092. SP305-2.*

Melting; Model potential of Heine and Abarenkov; Nickel amide; Order-disorder; Peierls barriers; Pt-Cu; Silver; tellurium (Ag<sub>2</sub>Te); Ti-Al; TiCo; TiFe; TiNi; Ti<sub>2</sub>Te; Binary alloys; *SP323, pp. 483-492. SP305-4.*

Melting; Molecular correlation functions; Phase transition; Equation of state; Freezing; Freezing criteria; *14728. SP305-7.*

Melting; Niobium; Normal spectral emittance; Surface roughness; High temperature; *13860. SP305-6.*

Melting; Niobium; Radiance temperature; Surface roughness; High-speed measurements; High temperature; *J77A No. 333-339 (1973). SP305-5.*

Melting; Normal spectral emittance; Tantalum; Thermal radiation properties; Emittance; High-speed measurements; *1230. SP305-3.*

Melting; Normal spectral emittance; Radiance temperature; High-speed measurements; High temperature; Iron; *J79A No. 4, 541-544 (1975). SP305-7.*

Melting; Nucleation; Particle size; Production; Rate; Cryogenics; Crystallization; Freezing; Growth; Hydrogen; Liquid-solid phase; *9925. SP305-1.*

Melting; Phase transition; Purity; Thermodynamics; Adiabatic calorimetry; Calorimeter; Calorimetry; Cryoscopy; *1118. SP305-2.*

Melting; Polymers; Rubber; Stark rubber; Chain folding; Co-traction; Crystallization; Dilatometry; Heat engine; *1083. SP305-1.*

Melting; Polymers; Rubber; Stark rubber; Chain folding; Co-traction; Crystallization; Dilatometry; Heat engine; *1015. SP305-1.*

Melting; Thermal expansion; Waxes; Flow; *9969. SP305-1.*

Melting; Vaporization; Diffusion; Glass; Homogeneity; *1598. SP305-8.*

Melting and freezing densities; Monte Carlo simulation; Symmetry change; Van der Waals isotherm; Fluid-solid phase transition; Lennard-Jones model; *14736. SP305-7.*

Melting curve;  $\beta$ -fluorine; Density; Fluorine; *11782. SP305-2.*

Melting curve; Oxygen; Properties of fluids; Saturated liquid and vapor; Specific heat; Vapor pressure; Velocity of sound; Density; Enthalpy; Entropy; Equation of state; Fixed point (PVT); Joule-Thomson; *J74A No. 1, 93-129 (1970). SP305-2.*

Melting curve; Polymorphism; Sulfur; Diamond-anvil cell; High pressure; *14242. SP305-6.*

Melting curve; PVT measurements; Saturation densities; Specific heats; Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; *TN392. (Revised September 1973). SP305-5.*

Melting curve; PVT measurements; Saturation densities; Specific heats; Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; *TN392. SP305-2.*

melting curves; Phase diagrams; Polymorphism; Critically evaluated data; Crystal structures; Elements; High pressure; *J. Phys. Chem. Ref. Data* 3, No. 3, 781-824 (1974). **SP305-6.**

melting line; Melting pressures; Solid ethane; Solid phase transition; Ethane; *15805. SP305-8.*

melting line; Neon; Phase-equilibria; Krypton; *13232. SP305-5.*

melting line; Orthobaric densities; PVT data; Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; *TN653. SP305-6.*

melting line; Orthobaric densities; PVT data; Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; *NBSIR 74-398. SP305-7.*

melting line; Orthobaric densities; Specific heats; Speeds of sound; Vapor pressure; Densities; Enthalpies; Entropies; Equation of state; Ethane; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; *TN684. SP305-8.*

melting line; *P-V-T*; Specific heat; Speed of sound; Vapor pressure; Virial coefficient; Critically evaluated data; Critical point; Enthalpy; Entropy; Equation of state; Helium; Internal energy; *J. Phys. Chem. Ref. Data* 2, No. 4, 923-1042 (1973). **SP305-6.**

melting point; High pressure; *12429. SP305-4.*

melting point; Metals; Molybdenum; Premelting; Thermodynamics; Electrical resistivity; High-speed methods; High temperature; *12231. SP305-3.*

melting point; Molecular weight; Purity; Calorimetry; Cryoscopy; Dilatometry; Freezing; Heat of fusion; Melting; *10963. SP305-2.*

melting point; Molybdenum; Radiance temperature; Wavelength; *15557. SP305-7.*

melting point; Niobium; Electrical resistivity; Emittance; High-speed measurements; High temperature; *13332. SP305-5.*

melting point; Nitrogen; Prandtl number; Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; *TN648. SP305-6.*

melting point; Normal spectral emittance; Refractory materials; Thermophysics; Alloys; Electrical resistivity; High temperature; *J.78A No. 1, 5-8 (1974). SP305-6.*

melting point; Normal spectral emittance; Radiance temperature; Zirconium; Electrical resistivity; High-speed measurements; High temperature; *15612. SP305-7.*

melting point; Nucleation; Polymer; Solution; Surface free energy; Theory; Thermodynamics; Bulk; Chain fold; Crystallization; Fluctuation; Growth; Heat of melting; Homogeneous nucleation; Kinetics; Lamella thickness; Melt; *11329. SP305-2.*

melting point; Perovskites; Polymorphism; X-ray diffraction; Chlorides, crystal structures; Double chlorides; Lattice constants; *J.73A No. 6, 621-626 (1969). SP305-1.*

melting point; Phase transformation; Thermodynamics; Thermophysical properties; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Iron; *J.78A No. 1, 1-4 (1974). SP305-6.*

melting point; Platinum; High-speed measurements; High temperatures; *J.74C Nos. 3 and 4, 87-88 (1970). SP305-2.*

melting point; Prandtl number; Oxygen; Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; *TN631. SP305-5.*

melting point; Pyrometry; Radiance temperature; Tantalum; Emittance; High-speed measurements; High temperature; *16426. SP305-8.*

melting point; Pyrometry; Radiance temperature; Hafnium; High-speed measurement; High temperature; *J. Res. 80A No. 4, 659-662 (1976). SP305-8.*

melting point; Radiance temperature; Reaction of Ba(g) and excited ozone; Reaction of Fe(g) and oxygen; Review of literature on rate of effusion and mass-spectrometric data; Scandium group and rare-earth gaseous monoxides; Specific heat; Total emittance; *NBSIR 74-600. SP305-7.*

melting point; Secondary temperature standards; Temperature scales;  $Y_2O_3$ ; IPTS-68; *14735. SP305-7.*

melting point; Standards; Thermal conductivity; Thermal expansion; Thermal radiation; Viscoelasticity; Ceramics; Elasticity; Fracture; Inelastic deformation; *SP303. SP305-1.*

melting point; Structure; Density; Energy gap; Inorganic compounds; *16163. SP305-8.*

melting point; Thermodynamics; Tungsten; Electrical resistivity; High-speed measurements; High temperature; *12905. SP305-4.*

melting point; Vacuum environment; Alumina; Dissociation; *10054. SP305-1.*

melting point depression; Nonstoichiometry in liquid CoO; Solar furnace; Thermal analysis; CoO-O<sub>2</sub> system; *SP364, pp. 471-481. SP305-4.*

melting point of Al<sub>2</sub>O<sub>3</sub>; Melting point standards; Al<sub>2</sub>O<sub>3</sub>; Alumina; IUPAC; *11924. SP305-3.*

melting point standards; Al<sub>2</sub>O<sub>3</sub>; Alumina; IUPAC; Melting point of Al<sub>2</sub>O<sub>3</sub>; *11924. SP305-3.*

melting points; Phase equilibria; System tantalum oxide-tantalum tungstate; *12017. SP305-3.*

melting points; Pyrometry; Secondary reference points; Temperature measurement; High temperature chemistry; International temperature scale; *10116. SP305-1.*

melting points of actinide oxides; Nonstoichiometry; Oxides; Thermodynamics; Actinide oxides; Actinide sesquioxides; Americium oxides; Berkelium oxides; Curium oxides; *SP364, pp. 319-330. SP305-4.*

melting pressure; Methane; Triple-point constants; Vapor pressure; Boiling point; Critical-point pressure; *12896. SP305-4.*

melting pressure; Parahydrogen; Polarizability; Solid density; Dielectric constant; *10810. SP305-1.*

melting pressures; Methane; Thermophysical properties; Vapor pressures; Virial coefficients; *J.74A No. 5, 655-660 (1970). SP305-2.*

melting pressures; Solid ethane; Solid phase transition; Ethane; Melting line; *15805. SP305-8.*

- Melting range; Melting temperature; Oriented; Partial melting; Recrystallization; Rubber; Slow melting; Stark rubber; Crystal size; Crystallized rubber; Heating rate; *J.71A3-455, 225-229 (1967)*. SP305.
- Melting range; Melting temperature; Oriented; Partial melting; Recrystallization; Rubber; Slow melting; Stark rubber; Crystallized rubber; Crystal size; Heating rate; *11436*. SP305-2.
- Melting temperature; Copolymers; Crystallization; Growth rate; Lamella thickness; *J.77A No. 3, 353-358 (1973)*. SP305-5.
- Melting temperature; Oriented; Partial melting; Recrystallization; Rubber; Slow melting; Stark rubber; Crystal size; Crystallized rubber; Heating rate; Melting range; *J.71A3-455, 225-229 (1967)*. SP305.
- Melting temperature; Oriented; Partial melting; Recrystallization; Rubber; Slow melting; Stark rubber; Crystallized rubber; Crystal size; Heating rate; Melting range; *11436*. SP305-2.
- Melting temperature; Polymer; Propylene; Tetrafluoroethylene; Copolymer; Fluoropolymer; Glass temperature; Isobutylene; *14570*. SP305-6.
- Melting temperature; Surface energy; Tetrafluoroethylene-hexafluoropropylene; Comonomer concentration; Comonomer defect; Copolymers; Defect energy; Equilibrium melting temperature; Lamella thickness; *9641*. SP305-1.
- Melting temperatures; Methyl surfaces; *n*-paraffins; Polyethylene; Thermodynamic properties; Convergence temperature; *J.70A6-421, 481-486 (1966)*. SP305.
- Melting temperatures; Microhardness; Rare-earth borides; Borides; Lattice constants;  $\text{LnB}_6$  compounds; *SP364*, pp. 597-604. SP305-4.
- Melting-line liquid densities; Orthobaric densities; Parahydrogen; *J.70A6-425, 541-544 (1966)*. SP305.
- Melting-point determination; Metallography; Phase-field division; Silicon; Solubilities; Ternary system; X-ray investigations; Binary system; Boron; Carbon; Chemical analysis; *SP364*, pp. 505-513. SP305-4.
- Melts; Microheterogeneities;  $\text{Na}_2\text{O}-\text{B}_2\text{O}_3-\text{SiO}_2$ ;  $\text{SiO}_2-\text{B}_2\text{O}_3-\text{Na}_2\text{O}$ ;  $\text{B}_2\text{O}_3-\text{Na}_2\text{O}-\text{SiO}_2$ ; Glass; Immiscibility; *11585*. SP305-2.
- Melts; Miscibility gaps; Sodium-silicate binary; Thermodynamics; Alkali-silicates; Glass; Immiscibility; Lithium-silicate binary; *14306*. SP305-6.
- Membrane; Number average molecular weight; Osmometer; Osmotic pressure; Virial coefficient; Concentration dependence; Linear polyethylene; *J.76A No. 2, 161-163 (1972)*. SP305-4.
- Membrane electrodes; PH measurement; Quinhydrone electrode; Antimony electrode; Bioelectrodes; Biological systems; Electrodes; Glass electrode; *10311*. SP305-1.
- Membrane electrodes; Potentiometry; Ion-selective electrodes; Ion-selective electrode review; *12449*. SP305-4.
- Membrane electrodes; Potentiometry; Electrode review; Ion-selective electrodes; *14785*. SP305-7.
- Membrane filters; Microphotometer; Particulate deposits; Laser; *15966*. SP305-8.
- Membrane filtration; Mercury cathode electrolysis; Prepurification; Purity definition; Reagent contamination; Ultrapurification; Analytical blanks; Analytical reagents; Contamination control; High-purity reagents; *SP422*, pp. 363-375 (Aug. 1976). SP305-8.
- Membrane movements; Prefabricated sheets; Radiative cooling; Roofing research; Solar heating; Liquid-applied coatings; *9432*. SP305.
- Membrane potentials; Molten salts; Galvanic cells; *10437*. SP305-1.
- Membrane potentials; Molten salts; Fused silica; Ion selectivity; *10608*. SP305-1.
- Membrane structures; Polymer precipitation; Scanning electron micrographs; Convection flows; Desalination; Interfacial turbulence; *14032*. SP305-6.
- Membranes; Membrane structures; Polymer precipitation; Scanning electron micrographs; Convection flows; Desalination; Interfacial turbulence; *14032*. SP305-6.
- Membranes; NMR; Permeation in polymers; Polymeric films; Reverse osmosis; Salt-polymer interactions; Aromatic polyimide membranes; Desalination; Diffusion; *13438*. SP305-4.
- Membranes; NMR; Porous membranes; Adsorption of water; Cellulose acetate; Dehydration; Free induction decay; Freezing of water; Irreversible processes; *13947*. SP305-6.
- Membranes; NMR relaxation times; Nuclear magnetic resonance; Cellulose acetate membranes; Differential scanning calorimetry; Freezing in porous systems; *14100*. SP305-6.
- Membranes; Nonequilibrium thermodynamics; Porous membranes; Thermal transpiration; Transport phenomena; Viscous flow; Continuous systems; Diffusion flow; Discontinuous systems; *10362*. SP305-1.
- Membranes; Nuclear magnetic resonance; Reverse osmosis; membranes; Water in membranes; Bound water; Cellulose acetate membranes; Differential scanning calorimetry; Freezing of water; *14421*. SP305-6.
- Membranes; Tension; Vibrating membranes; Air impedance; Compliant surface; Drag reduction; *16625*. SP305-8.
- Memoir; Russell B. Scott; Talk; Biography; Career; Cryogenic engineering; *11344*. SP305-2.
- Memory allocation; Microforms; Multiple-access systems; on-line systems; Output modes; Photocomposition; dtp; typesetting; Storage hierarchies; Time sharing; Computer-assisted-instruction; Information display; Information recording; *Monogr. 113, Volume 2*. SP305-2.
- Memory function; Projection operator; Raman scattering; Time correlation function; Depolarized Rayleigh scattering; Ionized gas; Incoherent neutron scattering; Infrared absorption; Liquid state; *J.78A No. 3, 413-420 (1974)*. SP305-6.
- Memory register; Operational stack; Pop-up; Polish notation; Push-down; Radioactivity and isotopic calculations; Reduction; Statistical calculations; Instruction list; Iteration; *13700*. SP305-5.
- Memory storage density; N-channel metal-oxide-semiconductor (N-MOS); Random-access-memory (RAM); Silicon; Charge-coupled device (CCD); Chevron; Garnet; Large-scale-integration (LSI); Line width; Lithography; Magnetic bubble device (MB); *16647*. SP305-8.
- Memory systems; Multiprocessing; Networks; On-line systems; Programming; Simulation; Storage; Data recording; Debugging; Holography; Information control; Input-output; Integrated circuits; Lasers; *Monogr. 113, Volume 3*. SP305-2.
- Memory technology; Protocols; Automated reading technology; Circuitry; Computer applications; Computer engineering; Integrated systems; Interface standards; *16553*. SP305-8.
- Mendelevium; Neptunium; Nobelium; Plutonium; Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; *13594*. SP305-5.
- Mendelevium; Neptunium; Nobelium; Plutonium; Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; *14257*. SP305-6.
- Meniscus; Meniscus height; Nearly planar meniscus; Boundary conditions; Calculus of variations; Capillary depression; Laplace's equation; *J.73A No. 6, 611-613 (1969)*. SP305-1.
- Meniscus; Pipets; Volumetric calibration; Burets; Capillary flasks; *NBSIR 74-461*. SP305-7.
- Meniscus characteristics; Mercury manometer; Pressure; Pressure regulator; Vacuum joints; Vacuum valves; Wring test; Capacitance; Diaphragm pressure transducer; Environmental; *11628*. SP305-2.



niscus height; Nearly planar meniscus; Bessel functions; Calculus of variations; Capillary depression; Laplace's equation; Meniscus; *J73A No. 6, 611-613 (1969). SP305-1.*

ental work; Association links; Command language design; Interactive user; Language transformation; *15371. SP305-7.*

rcaptant; Methacrylates; Polymers; Resin; Silane; Tantalum; Zirconium; Aluminum; Composites; Coupling agents gold; *3620. SP305-5.*

rcaptants; Alcohols; Alkyl halides; Chemical ionization; Ion-molecule reactions; Mass spectrometry; *14490. SP305-6.*

rcaptants; Alcohols; Alkyl halides; Chemical ionization; Ion-molecule reactions; Mass spectrometry; *14896. SP305-7.*

rcuric acetate, phenylosotriazole; P.m.r.; Symmetrical; Conformation; Half-chair; Inositol; *15254. SP305-7.*

rcuric acetate, p.m.r. spectra; Symmetrical; Computer; Diketoinositol phenylosotriazole; Half-chair conformation; *0939. SP305-2.*

rcuric nitrate; Olefins; Silver nitrate; Surface effect; Aliphatics; Aromatics; Complexing effects; Gas chromatography; Group separation; *12024. SP305-3.*

rcuroscopic expansion, dental amalgam; Porosity of dental amalgam; Amalgam, dental; Amalgam, dental, effect of technique on corrosion; Clinical failure of amalgam; Corrosion, dental amalgam; Dental materials; Marginal fracture, dental amalgam; *SP354, pp. 33-41. SP305-4.*

rcurous chloride; Polarizer material; Visible; Infrared; *NBSIR 74-507. SP305-8.*

rcury; Mercury loss; Methylmercury; Nuclear activation analysis; Phenylmercuric acetate; Freeze-drying; Lyophilization; *13493. SP305-5.*

rcury; Mercury vapor levels; Threshold limit; Amalgam condensation; *12092. SP305-3.*

rcury; Metalloids; Methylmercury; Sediments; Anaerobic bacteria; Atomic absorption; Chesapeake Bay; Dimethylmercury; Estuary; Facultative bacteria; Gas chromatography; *4526. SP305-6.*

rcury; Metal fires; Metric; Safety; WWV/WWVH; Computer; Energy measurement; EPIC; FIPS; Kitchen ranges; *DIM/NBS 60, No. 1, 1-24 (1976). SP305-8.*

rcury; Micrometer; Oil; U-tube; Vacuum measurement; Water; Manometers; *9413. SP305.*

rcury; Neutron activation analysis; Organomercury; Solvent extraction; Environmental matrices; Extraction yields; *SP422, pp. 1233-1240 (Aug. 1976). SP305-8.*

rcury; Nuclear magnetic resonance; Double resonance; Fluorine; INDOR; *12456. SP305-4.*

rcury; Occupational safety; Atomic absorption; Gas generation system; *NBSIR 73-254. SP305-6.*

rcury; Optical constants; Refractive index; Surface films; Complex refractive index; Ellipsometry; *9509. SP305.*

rcury; Osmium; Platinum; Rhenium; Tantalum; Thallium; Tungsten; Wavelengths; Ytterbium; Bismuth; Gold; Hafnium; Ionization energies; Iridium; Lead; Lutetium; *16420. SP305-*

rcury; Paint; Analysis; Colorimetric; Dithizone; Paint film; Ungicide; Latex; *9431. SP305.*

rcury; Performance standard; Pressure transducers; SRM; Surgical implants; Testing; Thermal transients; Architectural heritage; Fire; Guardrail; High-capacity; Mathematics; *DIM/NBS 60, No. 8, 1-24 (1976). SP305-8.*

rcury; Personnel monitor; Piezoelectric sensor; Trace analysis; Air pollution; Chemical analysis; Dosimeter; Industrial hygiene analysis; *15581. SP305-7.*

rcury; Piezoelectric detector; Trace analysis; Air pollution; Chemical analysis; Industrial hygiene; *15331. SP305-7.*

rcury; Pollution; Radiochemical separations; Selenium; Activation analysis; Arsenic; Cadmium; Environment; *14519. SP305-6.*

rcury; Pollution; Standard reference material; Activation analysis; Coal; *12676. SP305-4.*

Mercury; Polymer adsorption; Polystyrene; Adsorption; Adsorption of polymers; Conformation of adsorbed polymers; Ellipsometry; *10156. SP305-1.*

Mercury; Preconcentration; Trace elements; Activation analysis; Adsorption isotherm; Environmental samples; *SP422, pp. 669-699 (Aug. 1976). SP305-8.*

Mercury; Pressure standards; Calibration; Fixed point; Freezing pressure; Manganin gage; *9811. SP305-1.*

Mercury; Reference samples; Trace elements; Body fluids; Fluorine; Lead; *15408. SP305-7.*

Mercury; Review; Selenium; Toxic elements in paints; Analytical methods; Antimony; Arsenic; Cadmium; Lead; *13768. SP305-5.*

Mercury; Solids; Aluminum; Bismuth; Electron energy loss; Gallium; Gold; Indium; Liquids; *11088. SP305-2.*

Mercury; Spectra; Zinc; Cadmium; *13150. SP305-5.*

Mercury; Stabilization; Standard reference material; Trace element; Water standard; *15458. SP305-7.*

Mercury; Standard Reference Material; Activation analysis; Biological; Environment; *12733. SP305-4.*

Mercury; Sulfides; Synthesis; Bismuth; *13518. SP305-5.*

Mercury; Switch; Burglar alarm sensor; Burglar alarm system; Interior perimeter sensor; *14550. SP305-6.*

Mercury; Thallium; Atomic energy levels; Atomic theory; Bismuth; Configuration interaction; Lead; *13135. SP305-5.*

Mercury; Trace metal; Analysis; Ashing; Blood lead; Contamination; Dairy products; Digestion; Interferences; Losses; *SP422, pp. 661-668 (Aug. 1976). SP305-8.*

Mercury; Vapor; Contamination; Dental amalgam; Environment; Hazards; Hygiene; *12254. SP305-3.*

Mercury arc; Arc mercury; Conductivity; Cross section; Electrical conductivity of mercury; Electron-neutral; Electron-neutral transport cross section of mercury; *13750. SP305-5.*

Mercury cathode electrolysis; Prepurification; Purity definition; Reagent contamination; Ultrapurification; Analytical blanks; Analytical reagents; Contamination control; High-purity reagents; Membrane filtration; *SP422, pp. 363-375 (Aug. 1976). SP305-8.*

Mercury fulminate; Metastable materials; Potassium dinitrobenzofuroxan; Primary explosives; Differential thermal analysis; Dupont 900 DTA remote cell; Lead azide; Lead styphnate; *SP338, pp. 151-164. SP305-2.*

Mercury hyperfine structure; Zeeman filter; Atomic beams; Double resonance; Isotope shifts; Lande g-factor; *9839. SP305-1.*

Mercury in botanical; Quantum efficiencies; Aluminum in steel; Bilirubin; DTA standards; Fluorescence filters Ti(I), Ce(III), Pb(II); Glass filters (SRM 930); *TN584. SP305-3.*

Mercury in coal; Trace analysis; X-ray fluorescence; X-ray spectroscopy; Background; *NBSIR 75-675. SP305-7.*

Mercury in orchard leaves; Standard reference materials; Flameless atomic absorption; Liver and coal; Loss of mercury; *13191. SP305-5.*

Mercury in orchard leaves; Standard reference materials; Flameless atomic absorption; Liver and coal; Loss of mercury; *14537. SP305-6.*

Mercury in water, stabilization of; Neutron activation analysis; Spark source mass spectrometry; Atomic absorption spectrometry; Isotope dilution analysis; Mercury in water, trace analysis; *SP422, pp. 267-273 (Aug. 1976). SP305-8.*

Mercury in water, trace analysis; Mercury in water, stabilization of; Neutron activation analysis; Spark source mass spectrometry; Atomic absorption spectrometry; Isotope dilution analysis; *SP422, pp. 267-273 (Aug. 1976). SP305-8.*

Mercury ions; 285-nm radiation; 480-nm radiation; Absolute cross sections; Electron impact; *16588. SP305-8.*

Mercury loss; Methylmercury; Nuclear activation analysis; Phenylmercuric acetate; Freeze-drying; Lyophilization; Mercury; *13493. SP305-5.*

Mercury manometer; Pressure; Manometry; *14921. SP305-7.*



- Mercury manometer; Pressure; Pressure regulator; Vacuum joints; Vacuum valves; Wring tests; Capacitance; Diaphragm pressure transducer; Environment; Meniscus characteristics; 11628. SP305-2.
- Mercury manometer; Triple point of water; Vapor pressure; 15732. SP305-8.
- Mercury molecules; New spectroscopic techniques; Optical excitation; Potential curves; Dissociation laser; Excimers; Excited state kinetics; *f*-values; *Monogr.* 143. SP305-7.
- Mercury probe; Scanning Michelson interferometer; Schottky capacitance-voltage; Spreading resistance; Automation; Beveling; Comparison; Four-point probe; Incremental MOS capacitance-voltage; Incremental sheet resistance; Infrared spectrometer; SP400-10, pp. 155-168. SP305-6.
- Mercury switch; Oscilloscope; Picosecond; Pulse; Random sampling; Risetime; Sampling; Time base; Transition time; 13799. SP305-5.
- Mercury switch; Oscilloscope; Picosecond; Pulse; Random sampling; Risetime; Sampling; Transition time; 14262. SP305-6.
- Mercury switch; Picosecond; Pulse generator; Pulse measurement; Superconductivity; *NBSIR* 74-377. SP305-6.
- Mercury thermometers; Metric; Nuclear power; Police radars; Solar energy; SRM's; Computer systems; Environmental; Fire; Glass door; Lead nitrate; *DIM/NBS* 60, No. 2, 1-25 (1976). SP305-8.
- Mercury transformations; Phenylmercuric acetate, *Pseudomonas*; Atomic absorption; Biodegradation; Mercury-resistant bacteria; 13708. SP305-5.
- Mercury vapor; Noble gases; Solubility-enhancement; Steam; Van der Waals' equation; Ammonia; Dense gases; Equation of state; Hydrogen; Nitrogen; 11742. SP305-2.
- Mercury vapor levels; Threshold limit; Amalgam condensation; Mercury; 12092. SP305-3.
- Mercury-arc irradiation; Organic coatings; Photodegradation; Surface degradation; Volatile degradation products; Xenon-arc irradiation; Atmospheric exposure; ATR spectroscopy; Clear and pigmented films; Infrared analysis; SP336, pp. 299-312. SP305-3.
- Mercury-in-glass thermometers; Thermometers, self-registering, clinical; Clinical thermometers; Glass thermometers, clinical; SP339-70. SP305-3.
- Mercury-resistant bacteria; Mercury transformations; Phenylmercuric acetate, *Pseudomonas*; Atomic absorption; Biodegradation; 13708. SP305-5.
- Mercury-silver alloys; Packing pressure; Particle size; Silver-tin alloys; Spherical alloy; Spherical-alloy amalgam; Adaptability; Amalgams; Dental amalgam; Dentistry; 9448. SP305.
- Mercury-toluene thermometer; Temperature controller; 9934. SP305-1.
- Meridional electron trajectories; Third-order aberration coefficients; Two-tube electrostatic lens; Fifth-order aberration coefficients; Intrinsic aberration coefficients; 12651. SP305-4.
- Meson; Photoproduction-meson; SU(6)<sub>w</sub>; Symmetry; Vector; Dominance; 11222. SP305-2.
- Meson; Resonances; Spurious; Symmetry breaking; U(12) theory; Baryon; Branching ratio; Decay; Decay width; 9166. SP305.
- Meson classification;  $\psi$  and  $\chi$  particles;  $1^{--}$  states;  $E^+e^-$  annihilation; Exotic mesons; 15961. SP305-8.
- Meson nucleus interactions; Nuclear wave function;  $\pi$  mesons; Short range correlations; Correlated pairs; High momentum components; 10875. SP305-2.
- Meson spectroscopy; Algebra of currents and quarks; Constituent quarks; Current quarks; Hadronic structure; Melosh transformation; 15073. SP305-7.
- Mesons; Nuclear structure; Baryons; Duality; Exchange currents; Magnetic moments; 13449. SP305-5.
- Mesons; Protons; Range; Stopping power; Bremsstrahlung efficiency; Electrons; 9580. SP305-1.
- Mesons; Quarks; Spectroscopy; A<sup>2</sup>; Baryons, exotics; 132. SP305-5.
- Mesons; Reaction; Scattering; SU(3); Asymptotic; Baryon; 10296. SP305-1.
- Mesons; Reactions; Structure; SU(6)<sub>w</sub>; Symmetry; Exotic; 1974. SP305-3.
- Mesons; Reactions; Structure; SU(6)<sub>w</sub>; Symmetry; Exotic; 14543. SP305-6.
- Mesons; Resonances; Spectroscopy; SU(3); SU(6)<sub>w</sub>; A<sub>2</sub>; 120. SP305-3.
- Mesons; Time reversal; Weak interactions; CPT theorem; Decays; 10867. SP305-2.
- Mesospheric electron concentrations; Microscopic chemical reactions; Negative ions; Ion chemistry; 10388. SP305-1.
- Message network synthesis; Network optimization; Satellite; Service improvement; Communication; Cost-benefit; Dependent; Electronic transmission; Facility location; Mail; Mathematical programming; *NBSIR* 75-737. SP305-7.
- Metabolic processes; Microcalorimetry; Thermochemistry; Thermodynamics; Adenosine 5'-triphosphate; Biochemistry; Enzyme catalyzed reactions; Glucose; Heat measurement; Hexokinase; 15174. SP305-7.
- Metabolic processes; Microcalorimetry; Thermochemistry; Thermodynamics; Adenosine 5'-triphosphate; Biochemistry; Coupled equilibrium; Enzyme catalyzed reactions; Glucose; Heat measurement; Hexokinase; Magnesium; 16385. SP305-8.
- Metabolic products; Microbial corrosion; Oxygen concentration; Anaerobic corrosion; Cathodic depolarization; Corrosion mechanisms; 10999. SP305-2.
- Metabolism; Microcalorimetry; Arbacia punctulata; Calorimetry; Cleavage of cells; Development of cells; Fertilization; Growth of cells; Heat production; Marine eggs; 15151. SP305-7.
- Metabolites; Methylmercury; Sediments; Anaerobic bacteria; Atomic absorption; Chesapeake Bay; Dimethylmercury; Estuary; Facultative bacteria; Gas chromatography; Mercury; 14526. SP305-6.
- Metal; Mössbauer; <sup>87</sup>Fc; <sup>161</sup>Dy; Amorphous; Magnetization; 16403. SP305-8.
- Metal; Nickel-Monel; Non-corrosive; Value; Fluoride; High temperature; High-vacuum; 10748. SP305-1.
- Metal; Polymers; Wear; Adhesion; Coatings; Friction; SP45, pp. 3-13 (Sept. 1976). SP305-8.
- Metal; Space; Crystal growing; Crystals; Gravity; 11605. SP305-2.
- Metal; *Sf* electron; Actinides; Coulomb term; Energy; Excitation energy; 15129. SP305-7.
- Metal alkyls; Photoionization; Heats of formation; Ionization thresholds; Mass spectrometry; 12448. SP305-4.
- Metal and plastic composites; Metal composites, metals; Salt corrosion, telephone cable shields; Underground corrosion; 16351. SP305-8.
- Metal borides; Optical properties; Opto-elastic properties; Optics; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Fracture; Glass; *TNSI* SP305-2.
- Metal carbonyl; Molybdenum carbonyl; NMR spectroscopy; 1,3-dithiolen-2-thione; Chromium carbonyl; Infrared spectroscopy; 15985. SP305-8.
- Metal carbonyl; Thiocarbonyl; 1,3-dithiolane-2-thione; 1,3-dithiolen-2-thione; Carbon-13 NMR; Coordination compounds; 16585. SP305-8.
- Metal clusters; Molecular orbitals; Quantum chemistry; Transition metal complexes; Catalysis; Chemisorption theory; SP455, pp. 67-86 (Nov. 1976). SP305-8.
- Metal coatings; Coatings; Copper; Density; Electrodeposition; Electrodeposits; 15580. SP305-7.

tal coatings; Metal mirrors; Protective overcoatings;  $\text{CaF}_2$  windows; CO laser damage; Damage threshold; Dielectric antireflection coatings; *SP387*, pp. 138-150. **SP305-5.**

tal coatings; Micrometers; Microscopes; Optical equipment; Optical microscopes; Thickness; Thickness gages; *12215*. **SP305-3.**

tal coatings; Nickel; Nickel-phosphorus; Chemical nickel; Coatings; Electroless nickel; *13786*. **SP305-5.**

tal coatings; Plated coatings; Plating specifications; Plating standards; Specifications; Coating thickness; Coatings; Electrodeposited coatings; Electrodeposits; *14041*. **SP305-6.**

tal coatings; Plated coatings; Polymer coatings; Solid film lubricants; Sputtered coatings; Wear; Barrier film; Chemical coatings; Failure prevention; Mechanical failure; *SP452*. **SP305-8.**

tal coatings; Properties of electrodeposits; Thickness gages; Thickness measurement; Coating thickness; Coating thickness gages; Coatings; Electrodeposited coatings; Electroplated coatings; *15560*. **SP305-7.**

tal coatings; Test methods for metal coatings; Testing electrodeposits; Coatings; Electroplated coatings; *14743*. **SP305-5.**

tal composites, metals; Soil corrosion, telephone cable shields; Underground corrosion; Metal and plastic composites; *16351*. **SP305-8.**

tal contaminants; Occupation-related air pollutants; Oil spills; Radioactive pollutants; Stratospheric air pollution; Water quality; Water pollution; Air pollution; Air quality; Auto emissions; Clean air and water; Environmental quality; *11M/NBS 57*, No. 10, 225-252 (1973). **SP305-5.**

tal detections; Performance standards; Weapon detection; *14680*. **SP305-6.**

tal detector; Performance standard; Security; Weapon detection; Handgun detection; *15306*. **SP305-7.**

tal detector; Weapons detection; *14988*. **SP305-7.**

tal electrodes; Semiconductor electrodes; Stability, surface layers; Surface reactions; Anodic decomposition; Cathodic decomposition; Electrochemistry; Inorganic bronze electrodes; *SP455*, pp. 267-280 (Nov. 1976). **SP305-8.**

tal fatigue; Crack initiation; Crack propagation; Fatigue crack growth; Fatigue failure; *SP423*, pp. 13-24 (Apr. 1976). **SP305-8.**

tal finishing, metric system for; Metrication, electrodeposition; Metrication, electroplating; Metrication, metal finishing; Metric system, electroplating industry; Electroplating industry, metrication of; *16353*. **SP305-8.**

tal fires; Metric; Safety; WWW/WWWH; Computer; Energy measurement; EPIC; FIPS; Kitchen ranges; Mercury; *11M/NBS 60*, No. 1, 1-24 (1976). **SP305-8.**

tal foil analysis; Microanalysis; Non-diffractive x-ray spectra; Optical spectrometry; Platinum analysis; Preconcentration techniques; Spark source mass spectrometry; Spectrochemical analysis; Spectrograph; Standard reference materials; Steel analysis; *TN502*. **SP305-2.**

tal hydride; Neutron inelastic scattering; Phase transformation; Vanadium hydride; Vibration spectra; Crystal structure; frequency distribution; Hydrogen positions; Hydrogen vibration; *10598*. **SP305-1.**

tal hydrides; Neutron scattering; Optical vibration; Vibration spectrum; Cold neutrons; Frequency; Inelastic scattering; *506*. **SP305.**

tal inclusions; Meteorite; Microstructure; SEM; Lunar soil; *2131*. **SP305-3.**

tal ion pairs; Optical spectra; Purine bases; Adenine; Copper(II); EPR spectra; Exchange coupling; *10913*. **SP305-**

tal ions; Mordant; Adhesive bonding; Chelation; Monomers; Coupling agents; Dental materials; Hard tooth issues; *15161*. **SP305-7.**

Metal mirrors; CW laser damage; Diamond turned optics; Dielectric enhanced metal mirrors; Laser beam characterization; *SP414*, pp. 103-112. **SP305-6.**

Metal mirrors; Micromachining; Optical figure; Scattered light; Diamond turning; Laser damage; *SP435*, pp. 49-56 (Apr. 1976). **SP305-8.**

Metal mirrors; Optical fabrication; Optical materials; Thin films; Avalanche ionization; Infrared windows; Laser damage; *SP462*. **SP305-8.**

Metal mirrors; Protective overcoatings;  $\text{CaF}_2$  windows; CO laser damage; Damage threshold; Dielectric antireflection coatings; Metal coatings; *SP387*, pp. 138-150. **SP305-5.**

Metal mirrors; Reflectance; Absorbance; CO laser calorimetry; CO laser mirrors; Dielectric-enhanced mirrors; Infrared laser mirrors; *SP462*, pp. 189-194 (Dec. 1976). **SP305-8.**

Metal mirrors; Reflecting optics; Laser damage; Laser fusion; *SP462*, pp. 331-337 (Dec. 1976). **SP305-8.**

Metal mirrors; Subsurface structure; Ultrasonic cleaning; Laser damage; *SP435*, pp. 90-97 (Apr. 1976). **SP305-8.**

Metal on metal diode;  $\text{CO}_2$  laser; CW laser absolute frequency measurement; Harmonic generation; High frequency mixing;  $\text{H}_2\text{O}$  laser; *11620*. **SP305-2.**

Metal oxidation; Metals; MOM devices; Oxidation; Oxidation theory; Parabolic law for metal oxidation; Semiconductors; Conductivity; Electric field effects; Insulating films; Insulators; *16260*. **SP305-8.**

Metal oxidation; Oxidation kinetics; Oxide structure; Surface potential; Ellipsometry; Low energy electron diffraction; *14426*. **SP305-6.**

Metal plating; Contact resistance; Corrosion; *11768*. **SP305-2.**

Metal polishing; Optical fabrication; Chamfering; Continuous polishing; Grinding; *SP435*, pp. 3-9 (Apr. 1976). **SP305-8.**

Metal properties; Optical properties; Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Glass; *TN531*. **SP305-2.**

Metal reinforcement; Stability; Stacking sequence; Thin shells; Torsion; Aircraft structures; Buckling; Composite materials; *NBSIR 74-572*. **SP305-6.**

Metal sulfides; Sulfides; Tungsten; X-ray crystallography; Clusters; Metal-metal bonding; *16071*. **SP305-8.**

Metal surface; Overcomplete states; Adsorbed molecules on metal surfaces; Anderson Model; Energy distribution of field emitted electrons; Field emission theory; *14155*. **SP305-6.**

Metal surface; Photoemission; Surface density of states; Total energy distribution; Field emission; *14152*. **SP305-6.**

Metal surfaces; Oxygen photoemission; Tungsten; Adsorption; Carbon monoxide; Field emission; Hydrogen; *13250*. **SP305-5.**

Metal vapor device; Oven; Absorption spectroscopy; Heat pipe; *11521*. **SP305-2.**

Metal vapor gas mixtures; Absorption and fluorescent cell; Heat-pipe oven; *12685*. **SP305-4.**

Metal vapors; Noble gas; Spectroscopy; Electron beam excitation; Heat pipe oven; Lasers; *16234*. **SP305-8.**

Metal volumetric field standards; Provers; Specifications; Test measures; Tolerances; Weights and measures inspection; Accurate measurements of volumes; Field standard; *H105-3*. **SP305-3.**

Metal-insulator transition; Plasmon energy losses; Tungsten; Adsorbed atomic layers; Cesium; Inelastic-electron scattering; *11920*. **SP305-3.**

Metal-insulator transitions; Twinning; Vanadium oxide; X rays; Chromium doping; *14415*. **SP305-6.**

Metal-insulator-metal structures; Electron tunneling; Impurities; Junctions; *11538*. **SP305-2.**

Metallic; TCNQ complexes; Electron transport; Magnetic properties; *13959*. **SP305-6.**

- Metallic bond; Sodium thallide; Alloys; Charge transfer; Inter-metallic compounds; Ionic bond; *11254. SP305-2.*
- Metallic bonding; Tensile properties; Tungsten; Vapor-deposition; Wires; Composites; Copper; Electrical conductivity; Fracture; Law of mixtures; *J.74C Nos. 3 and 4, 97-110 (1970). SP305-2.*
- Metallic catalysts; Reaction mechanisms; Reaction rates; Critical data; Ethylene; Hydrogenation; *NSRDS-NBS13. SP305-1.*
- Metallic coatings; Missiles; Rocket-fuel tanks; Compatibility tests; Electrolytic protection; Hydrazine; Maraging steel; *11934. SP305-3.*
- Metallic coatings; Sliding wear; Coatings, metallic; *SP452, pp. 84-93 (Sept. 1976). SP305-8.*
- Metallic conductivity; Oxide; Perovskite; Solid solution; Antiferromagnetism; Curie-Weiss paramagnetism; Ferromagnetism; *SP364, pp. 275-284. SP305-4.*
- Metallic conductivity; Oxides; Pyrochlore structure; Semiconductor; *SP364, pp. 227-232. SP305-4.*
- Metallic elements; Metals; Recommended values; Standard reference data; Thermal conductivity; Critical evaluation; Gases; Graphites; *NSRDS-NBS16, Part 2. SP305-1.*
- Metallic implants; Nerve prosthesis; Synthetic implants; Thromboresistance; Biocompatibility; Biomaterials; Blood protein; Ceramic implants; Implantable electrodes; *SP415. SP305-7.*
- Metallic implants; Systemic effects; Corrosion; Inflammatory response; *SP415, pp. 45-54. SP305-7.*
- Metallic ions; Pollution monitoring; Rainwater analysis; Sample stability; Surface water analysis; Filtration losses; *SP422, pp. 633-648 (Aug. 1976). SP305-8.*
- Metallic phase transitions; Phonon dispersion; Raman scattering; Silicon; Gallium phosphides; High pressure; *15187. SP305-7.*
- Metallic piping; Nondestructive evaluation; Survey; Water hardness; Corrosion; Corrosion control; *NBSIR 75-923. SP305-8.*
- Metallic single bond radii; Refractory transition metal compounds; Tungsten carbide; Valence bonding; Voronoi polyhedra; Aluminum diboride—cadmium diiodide structure; Bidirectional orbitals; Effective charge; ESCA; Fermi surface distortion; *SP364, pp. 515-559. SP305-4.*
- Metallic spectrum; Photoabsorption; Lanthanides; *12839. SP305-4.*
- Metallic thin films; Microirregularities; Overcoating; Plasmons; Scatter; Absorption; Dielectric layers; Irregularities; *J. Res. 80A No. 4, 643-658 (1976). SP305-8.*
- Metallic-insulator transition; Photoelectron spectroscopy;  $V_2O_5$ ; *SP364, p. 127. SP305-4.*
- Metallic-line stars; Stellar structure; A-type stars; Convection theory; Convection zones; *16606. SP305-8.*
- Metalization; Methods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN560. SP305-3.*
- Metalization; Methods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN571. SP305-3.*
- Metalization; Methods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN592. SP305-3.*
- Metalization; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; *TN475. SP305-1.*
- Metalization; Methods of measurement; Microelectronic Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; *TN488. SP305-1.*
- Metalization; Methods of measurement; Microelectronic Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; *TN495. SP305-1.*
- Metalization; Methods of measurement; Microelectronic Microwave diodes; Mobility; MOS devices; Oxide film Photomasks; Photoresist; Resistivity; Resistivity standard Scanning electron microscopy; Semiconductor device Semiconductor materials; *SP400-1. SP305-6.*
- Metalization; Methods of measurement; Microelectronic Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN520. SP305-2.*
- Metalization; Methods of measurement; Microelectronic Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN527. SP305-2.*
- Metalization; Methods of measurement; Microelectronic Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN555. SP305-2.*
- Metalization; Scanning electron microscope; Transistor; trasonic bonding; Wire bonding; Aluminum wire; High reliability; Integrated circuit; *TN785. SP305-5.*
- Metalizing; Ultrasonic; Vacuum; Boron nitride; Ceramics; *11883. SP305-3.*
- Metalloboranes; Nuclear magnetic resonance; Oxidative action; Palladium; Boron hydrides; Deuterium; Iridium Maleonitriledithiolate; *16566. SP305-8.*
- Metallographic examination; Stability; Thermal emf; W-3% and W-25% Re thermoelements; Argon; Evaporation; Exposure; Hydrogen and high vacuum environments; *116. SP305-2.*
- Metallography; Metallurgical analysis; Microscopy; Photogrammetry; Evaluation; Measurement; *11977. SP305-3.*
- Metallography; Microanalysis; Petrography; Specimen preparation; X-ray analysis; Electron probes; *10617. SP305-1.*
- Metallography; Microprobe analysis; Spectroscopic analysis; Standard Reference Materials; Fe-3Si alloy; Homogeneity testing; *SP260-22. SP305-3.*
- Metallography; Microprobe analysis; NBS standards; Powder metallurgy; Tungsten-molybdenum alloys; Homogeneity testing; *11483. SP305-2.*
- Metallography; Microscopy; Polarized electromagnetic radiation; Color photography; Electron microscopy; Electron probes; Evaluation; *11994. SP305-3.*
- Metallography; Microscopy; Thickness determination coatings; Coating thickness; Measurement of coating thickness; *13141. SP305-5.*
- Metallography; Nondispersive x-ray analysis; Point Pleasant, Va. bridge; Scanning electron microscopy; Electron probe microanalysis; Ion microanalysis; *11609. SP305-2.*
- Metallography; Petrography; Photomicrography; Scanning electron microprobe; X-ray microscopy; Color photomicrographs; *J.73A No. 2, 113-123 (1969). SP305-1.*
- Metallography; Phase-field division; Silicon; Solubilities; Ternary system; X-ray investigations; Binary system; Boron; Carbon; Chemical analysis; Melting-point determination; *SP305. 505-513. SP305-4.*

tallography; Powder metallurgy; Spectrometric standards; Standard Reference Materials; W-Mo alloys; Electron probe analysis; *SP260-16. SP305-1.*

tallography; Stacking fault energy; Standard Reference Material; Austenitic stainless steel; Electron probe microanalysis; Fe-Cr-Ni alloy; Homogeneity testing; *SP260-43. SP305-1.*

tallography; Strain measurement; Tensile testing; X-ray microdiffraction; Instrument design; Kossel x-ray method; *1175. SP305-2.*

tallo-organic polymers; Role of metal and ligand; Synthesis; Thermal stability; *10276. SP305-1.*

tallo-organic standard reference materials; Air-pollution studies; Oxidation of polycyclic aromatic hydrocarbons; Sugars in solution; Conformational analysis; Carbon-14- and tritium-labeled carbohydrates; Large-scale paper chromatography; *N405. SP305.*

talurgical; Metals; Soft metals; Solid lubricants; Compatibility; Electropolished soft metal film coatings; *SP452, pp. 72-3 (Sept. 1976). SP305-8.*

talurgical; Reliability (microelectronic); Transistors; Wire bond; Bond pull test (nondestructive); *15430. SP305-7.*

talurgical analysis; Microscopy; Photogrammetry; Evaluation; Measurement; Metallography; *11977. SP305-3.*

talurgical failure modes; Microelectronic; Thermocompression bonds; Ultrasonic bonds; Bonds (wire); Failure modes; *5431. SP305-7.*

talurgical variables; Nondestructive testing; Pulse-echo; Steel ultrasonic standards; Titanium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference blocks; Fabrication of reference blocks; Immersion testing; Longitudinal waves; *NBSIR 75-685. SP305-7.*

talurgical variables; Nondestructive evaluation; Pulse echo; Steel ultrasonic standards; Titanium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference standards; Calibration; Fabrication variables; Immersion testing; *NBSIR 76-984. SP305-8.*

talurgically-bonded; Metals; Plastic-bonded; Soils; Telephone cables; Underground; Alloys; Corrosion; *16352. SP305-8.*

talurgy; Aluminum; Cryogenics; Magnetic energy storage; Magnets; *10822. SP305-1.*

talurgy; Mössbauer effect; Ni; Alloys; Cu; Fe; *11671. SP305-2.*

talurgy; Mössbauer effect; Nuclear magnetic resonance; Pure quadrupole resonance; Experimental techniques; Ferromagnetic nuclear resonance; *13837. SP305-6.*

talurgy; Passivity; Rigid-band model; Saltwater corrosion; Surfaces; Alloy theory; Catalysis; Chemisorption; Cu-Ni alloys; D-bands; Electron-configuration; *13805. SP305-6.*

talurgy; Phase diagram; Alloy; *16312. SP305-8.*

talurgy; Spectrometry; X-rays; Applications; Electron probe; Microanalysis; *11586. SP305-2.*

talurgy, dental alloy; Porcelain-gold materials; Solder, gold alloy; Alloys, dental casting; Ceramic-metal systems; Chromebalt alloys; Dental materials; Gold alloys; *SP354, pp. 67-3. SP305-4.*

talurgy of dental amalgam; Amalgam, dental; Amalgam, metalurgy; Amalgam, strength; Corrosion of dental amalgam; Dental materials; *SP354, pp. 43-59. SP305-4.*

tal-metal bonding; Metal sulfides; Sulfides; Tungsten; X-ray crystallography; Clusters; *16071. SP305-8.*

tal-metal bonding; Metal-site occupancies;  $\text{Ni}_3\text{In}$ ; Ordered primary silicides and germanides; Silicides and germanides; Binary  $\text{Ni}_3\text{In}$ -related phases;  $\text{TiNiSi}$ ;  $\text{Fe}_2\text{P}$  and  $\text{Mn}_3\text{Si}$ ; *SP364, pp. 613-622. SP305-4.*

tal-metal oxide electrodes; Oxygen transport; Steady-state overvoltages; Copper electrodes; Interfacial resistance; *P455, pp. 351-358 (Nov. 1976). SP305-8.*

Metal-noble gas vapors; Vapors, gas; Alkali metal-noble gas vapors; Gas vapors; *16217. SP305-8.*

Metals; Biomaterials; Corrosion; Implant materials; Mechanical properties; *NBSIR 73-420. SP305-6.*

Metals; Commercial alloys; Corrosion; Data sources; *SP396-3. SP305-8.*

Metals; Commercial alloys; Data sources; Mechanical properties; *SP396-1. SP305-6.*

Metals; Commercial alloys; Data sources; Electrical properties; Magnetic properties; *SP396-4. SP305-8.*

Metals; Method; Photochemistry; Resonance fluorescence; Vibrational relaxation; Apparatus; Energy transfer; *13900. SP305-6.*

Metals; Microscopy; Surfaces; Cracks; Flaws; Ion beam milling; *TN862. SP305-7.*

Metals; Molybdenum; Premelting; Thermodynamics; Electrical resistivity; High-speed methods; High temperature; Melting point; *12231. SP305-3.*

Metals; MOM devices; Oxidation; Oxidation theory; Parabolic law for metal oxidation; Semiconductors; Conductivity; Electric field effects; Insulating films; Insulators; Metal oxidation; *16260. SP305-8.*

Metals; Neutron irradiation; Recoil; Surface effect; Accuracy; Activation analysis; Charged particle irradiation; Diffusion; Etching; *SP422, pp. 1165-1171 (Aug. 1976). SP305-8.*

Metals; Nickel; Thermal expansion; Alloys; Aluminum; Copper; Expansivity; Iron; *10876. SP305-2.*

Metals; Nitrogen; Oxygen; Phosphorus; Silicon; Sulfur; Boron; Carbon; Light elements; *TN524. SP305-2.*

Metals; NMR; Soft x-ray spectroscopy; Alloys; Annotation; Automated; Bibliography; Data; Indexing; Information; Knight shifts; *TN464. SP305-1.*

Metals; Noble gas solids; Point defects; Semiconductors; Statistical thermodynamics; Formation enthalpy; Formation entropy; Formation free energy; Formation volume; Ionic solids; *12966. SP305-4.*

Metals; Oxygen; Safety; Survey; Compatibility; Materials; *14215. SP305-6.*

Metals; Particle analysis; Plastic deformation; Surfaces; Wear; Wear debris; X-ray analysis; Copper; Electron channeling; Electron microscope; *NBSIR 76-1141. SP305-8.*

Metals; Phase transformations; Cryogenics; Crystal structure; Martensite; *10010. SP305-1.*

Metals; Photon activation analysis; Radiochemical separations; Carbon; Combustion separations; *11751. SP305-2.*

Metals; Physical properties; Reference books (material); Alloys; Automated; Bibliography; Data; Files; Indexing computer programs; Information; *10863. SP305-2.*

Metals; Plasmon damping; Aluminum; Characteristic electron energy loss half-width; Corrected theory; *9966. SP305-1.*

Metals; Plastic deformation; Surfaces; Wear; Electron channeling; Iron; *16523. SP305-8.*

Metals; Plastic deformation; Surfaces; Wear; Electron channeling; Iron; *NBSIR 76-992. SP305-8.*

Metals; Plastic-bonded; Soils; Telephone cables; Underground; Alloys; Corrosion; Metallurgically-bonded; *16352. SP305-8.*

Metals; Plastics; Review; Thermal properties; Composite materials; Electrical properties; Mechanical properties; *13554. SP305-5.*

Metals; Polymers; Specifications standards; American Dental Association; Casting; Ceramic materials; Certified products; Dental; Instruments; Materials; *9978. SP305-1.*

Metals; Radiation safety; Standards laboratory; Synchrotron; Building collapse; Corrosion; Energy; Environmental; Frequency standards; Hearing aids; High-rise buildings; *DIM/NBS 60, No. 5, 1-24 (1976). SP305-8.*

Metals; Recommended values; Standard reference data; Thermal conductivity; Critical evaluation; Gases; Graphites; Metallic elements; *NSRDS-NBS16, Part 2. SP305-1.*



- Metals; Reflectance; Compilation; Cryogenic; Infrared; *TN348*. SP305.
- Metals; Reflectance; Compilation; Cryogenic; Infrared; *10540*. SP305-1.
- Metals; Reflectance; Surface effects; Thermal radiation properties; Absorbance; Electromagnetic theory; Emission; Measurement techniques; *13684*. SP305-5.
- Metals; Soft metals; Solid lubricants; Compatibility; Electropolished soft metal film coatings; Metallurgical; *SP452*, pp. 72-83 (Sept. 1976). SP305-8.
- Metals; Soft x ray; Aluminum; Critical evaluation; Emission spectra; *14069*. SP305-6.
- Metals; Soft x ray; Spectra; Alloys; Critical review; Emission spectra; Intermetallic compounds; *SP369*. SP305-6.
- Metals; Soft x-ray; Spectra; Alloys; Critical review; Emission spectra; Intermetallic compounds; *J. Phys. Chem. Ref. Data* 2, No. 2, 411-426 (1973). SP305-6.
- Metals; Solids; Thermal conductivity; Gases; Liquids; *NSRDS-NBS8*. SP305.
- Metals; Steels; Trace elements; Alloys; Analyses; Cast irons; Differential cathode ray polarography; High-purity materials; *13284*. SP305-5.
- Metals; Steels; Trace elements; Alloys; Analyses; Cast irons; Differential cathode ray polarography; High purity materials; *13490*. SP305-5.
- Metals; Surface states; Tunneling; Field emission; *12847*. SP305-4.
- Metals; Thermal conductivity; Alloys; Compilation; Cryogenic; Electrical resistivity; Lorenz ratio; *TN634*. SP305-5.
- Metals; Thermal conductivity; Thermal resistance; Alloys; Cryogenics; Electrical resistivity; Electron conductivity; Lorenz ratio; Low temperature research; *12538*. SP305-4.
- Metals; Thermoelectric; Cryogenic tests; Impurity characterization; *10434*. SP305-1.
- Metals; Thermophysical properties; Cryogenic temperature; *9995*. SP305-1.
- Metals research; Specifications; Adhesives; Composite restorative materials; Dental materials research; Dental restorative materials; Future dental needs; Laboratory testing and clinical research; Mechanical properties; *SP354*. SP305-4.
- Metal-semiconductor contacts; Multilayered structure; Piezoresistivity; Resistivity; Spreading resistance; Stress; Zero bias resistance; Correction factor; Crystallographic orientations; Effective contact radius; Interfaces; *SP400-10*, pp. 17-26. SP305-6.
- Metal-semiconductor contacts; Resistivity; Semiconductor surface preparation; Silicon; Spreading resistance; Dopant concentration; Dopant profiles; *SP400-10*. SP305-6.
- Metal-site occupancies;  $Ni_2In$ ; Ordered ternary silicides and germanides; Silicides and germanides; Ternary  $Ni_2In$ -related phases;  $TiNiSi$ ;  $Fe_2P$  and  $Mn_2Si_3$ ; Metal-metal bonding; *SP364*, pp. 613-622. SP305-4.
- Metal-vacuum interface; Platinum; Surface energy; Absorption potential; Charge density; *SP323*, pp. 359-373. SP305-4.
- Metamagnet; Optical spectroscopy;  $TbPO_4$ ; Antiferromagnet; Canted antiferromagnet; Heat capacity; Magnetic moment; Magnetic susceptibility; *12410*. SP305-4.
- Metamagnet; Phase transition; Shape effects; Susceptibility; Antiferromagnet; Dipolar interactions;  $DyPO_4$ ; Heat capacity; Magnetization; *12541*. SP305-4.
- Metamagnetism; Optical absorption; Critical phenomena; Diamond lattice;  $DyPO_4$ ; Ising system; Low temperature; Magnetic susceptibility; *12126*. SP305-3.
- Metameric matches; Pigment; Photopigment; Vision; Absorption; Adaptation; Beer's law; Chromatic adaptation; Color vision; Concentration; Cones; Curve shape; High luminance; *J.72A No. 4*, 309-340 (1968). SP305-1.
- Metamerism; Color-match classification; Color; Isomerism; *12196*. SP305-3.
- Metamerism; Paint; Scattering; Spectrophotometry; Absorption; Color; Colorant; *11010*. SP305-2.
- Metamerism; Spectrophotometric matches; Colorimetric matches; Colorimetry; Color vision; Index of metamerism; *11073*. SP305-2.
- Metamerism; Spectrophotometry; Standards; Uncertainty; Variability; Appearance evaluation; Colorimetry; Color vision; Color vision; Gloss; *SP300, Volume 9*. SP305-4.
- Metastability; Perturbation scheme; Reference system; Structure factor; Limit of stability; Mean field theory; *1659*. SP305-8.
- Metastable; Absolute measurement; Cross section; Deuterium dissociative excitation; *12792*. SP305-4.
- Metastable; Cross sections; Electron impact; Excitation; Helium; *10594*. SP305-1.
- Metastable; Helium; Ion mobilities; Mass analysis; *10149*. SP305-1.
- Metastable; Quantum chemistry;  $CO_2^-$ ; Electron scatter; Energy curve; Excitation energy; *12969*. SP305-4.
- Metastable; Radiative; Spectra; Theory; Vacuum-ultraviolet; Atomic; Collisions; Continuous; Deexcitation; He; He<sub>2</sub>; *936*. SP305.
- Metastable aluminas; Phase transitions; Theta alumina; Alpha alumina; Alumina; Amorphous alumina; Delta alumina; Gamma alumina; Intermediate aluminas; *10298*. SP305-1.
- Metastable atomic nitrogen; Zeeman spectroscopy; Electron discharge; Electron paramagnetic resonance; Fine structure separation; G factors; *10595*. SP305-1.
- Meta-stable compound; Neutron diffraction;  $NH_4ClO_4$ ; Thermomotion; Crystal structure; Low temperature; *15223*. SP307.
- Metastable fluid states; Nonhydrodynamic regime; Relaxation time; Transport coefficients; Zwanzig-Mori formalism; Hydrodynamic regime; Ideal gas memory function; Limit stability; *16601*. SP305-8.
- Metastable fluids; Nonlinear operator; Pair correlation function; Single particle probability density; Branching; Freezing points; *15178*. SP305-7.
- Metastable liquid immiscibility; Microphase separation; Phase diagrams of metastable immiscibility; Spinodal; Structural interpretation of immiscibility; Super-duty silica brick; Glass chromatography; Immiscibility and courses of crystallization; *11902*. SP305-3.
- Metastable materials; Potassium dinitrobenzofuroxan; Primary explosives; Differential thermal analysis; Dupont 900 DT remote cell; Lead azide; Lead styphnate; Mercury fulminate; *SP338*, pp. 151-164. SP305-2.
- Metastable molecules; Predissociation; Quantum mechanical resonance scattering; Theoretical; Unimolecular dissociation; Activated complex; Activated molecules; Activated state; Decay; Dissociation; High pressure rate constant; Kinetic Lifetime; *9366*. SP305.
- Metastable phase; Ordering reaction; Satellites; Spinodal decomposition; Superlattice reflections; Transmission electron microscopy;  $\delta$ ;  $L_1$ ; *15840*. SP305-8.
- Metastable solvus; Microstructural sequence method; Nucleation; Ordering; Precipitation; Spinodal decomposition; Age hardening; Copper-titanium; Dia; *15053*. SP305-7.
- Metastable states; Molecular nitrogen; Negative ions; Nitrogen window; Resonances; Vibrational excitation; Doppler broadening; Electronic excitation; Low energy elastic electron scattering; Low energy inelastic electron scattering; *9776*. SP305-1.
- Metastable states pressure calibration; Scaling law; Vapor pressure; Burnett method;  $CO_2$ ; Coexistence curve; Controlled clearance gage; Critical exponent; Critical isochore; Critical region; *12711*. SP305-4.
- Meteor burst; Multi-loop servo; Oscillator correction; Time synchronization; VLF propagation; Flicker noise; *971*. SP305-1.



theoretical penetration; Oxidative detonation; Oxidative flash; Oxygen atmosphere; Spacecraft; Blast over-pressure; Combustion front; Hypervelocity impact; *SP336*, pp. 569-585. **SP305-3.**

teorite; Microstructure; SEM; Lunar soil; Metal inclusions; *2131. SP305-3.*

teorite; Tishomingo; Alloy; Austenite; Electron microscopy; Iron-nickel; Martensite; *15764. SP305-8.*

teorites; Scanning electron microscopy; Electron probe microanalyzer; Lunar age; Lunar materials; *12495. SP305-4.*

teorites; Scanning electron microscopy; Electron probe microanalysis; Lunar samples; Lunar simulation; Lunar thermal history; *11810. SP305-3.*

teological data; Topographical model; Wind load; Wind profile; Wind tunnel; Bridge; Gust; *SP444*, pp. II-1—II-20 (Apr. 1976). **SP305-8.**

teology; Photometry; Phototherapy; Pollution; Radiometry; Remote sensing; Agriculture; Clinical analysis; Economic impact; Energy crisis; *TN594-4. SP305-5.*

teology; Photometry; Pollution monitoring; Radiometry; Remote sensing; Safety; Energy crisis; Health; *14674. SP305-*

teology; Spatial correlation; Turbulence; Wind observations; Wind profiles; Climatology; *BSS30*, pp. 23-25. **SP305-**

teology; Tall buildings; Wind effects; Wind loads; Wind tunnel; Climatological data; *14104. SP305-6.*

ter; Metric; Pulses; Robot; Sound; Construction; Dry weight; Cars; Energy; Health care; Hospitals; Measurement science; *DIM/NBS 59*, No. 10, 218-239 (1975). **SP305-7.**

ter; Metric system; Second; Standards for physical measurement; Temperature; Time; Ampere; Candela; Current; Degree Kelvin; International System of Units; Kilogram; Length; Luminous intensity; Mass; *9796. SP305-1.*

ter; Physical constant; Second; Standard; Unit; Degree Kelvin; Kilogram; Measurement system; *9797. SP305-1.*

ter; Telemetry; Device; Field; Hazards; Line; *9318. SP305.*

ter ballistics; Sound-level meters; Impact sounds; *14449. SP305-6.*

ter calibration; Compressible flow; Flowmeter; Gas meter; Heat transfer; Laminar flow; *9390. SP305.*

ter, electric field-strength; Telemetry, novel form of; Device, electro-explosive ordnance; Field, near-zone electromagnetic; Hazards, electromagnetic radiation; Line, nonmetallic electrical transmission; *J71C1-443, 51-57 (1967). SP305.*

ter, electric field-strength; Telemetry, novel form of; Device, electro-explosive ordnance; Field, near-zone electromagnetic; Hazards, electromagnetic radiation; Line, non-metallic electrical transmission; Line, semi-conducting plastic transmission; *TN345. SP305.*

ter, radio field strength; Electric field strength; Field, near zone electromagnetic; Line, semiconducting plastic transmission; *11434. SP305-2.*

ter wavelength; Radar echoes; Short-pulse; Angular scattering law; *10196. SP305-1.*

tering; Calibration; Liquid flow; Liquid flowmeters; *TN831. SP305-6.*

tering; Methane; Natural gas; Petroleum; Physical properties; Standard reference materials; Coal; Energy; Fuel; Graphite; Hydrocarbons; *SP434. SP305-8.*

tering; Modern; Museum; Primary; Reliability; Renovation; Secondary; System; Variable; Anchor; Controls; Corrosion; Growth; *BSS66*, pp. 102-115. **SP305-7.**

terographs; Micromanometers; Piston gages; Pressure measurement; Vane gages; Vapor pressure measurement; Calibration techniques; Capacitance pressure gages; Gas column nanometers; *Monogr. 114. SP305-2.*

terology; Moisture measurement in gases; Psychrometry; Dew point; Hygrometry; *11991. SP305-3.*

Meters; Outlines; Scales; Tests; Codes; Examination procedure; Inspection; *H112. SP305-5.*

Meters noise exposure; Noise exposure meters; Personal noise exposure meters; Exposure meters, noise; *14062. SP305-6.*

Methacrylate; N,N-dimethyl-3,5-dimethylaniline; Polymerization; Accelerators; Color formation; Discoloration; *10261. SP305-1.*

Methacrylate; Polyacrylate; Polyurethanes; Resins; Restorative; Adhesive; Cements; Composites; Cyanoacrylates; Dental; *12805. SP305-4.*

Methacrylate, phthalate; N,N-dimethyl-p-toluidine; Ultraviolet spectroscopy; Aromatic amine; Charge-transfer complexes; Color; Dental material; *15158. SP305-7.*

Methacrylates; Acrylic; Dental resins; Denture base materials; *9594. SP305-1.*

Methacrylates; Monomers; Prostheses; Resins; Restorative material; Biomaterials; Composites; Dentistry; Fillers; Glass; Owen, J. A. Barton, Jr., and A. L. Mullineaux, *SP354*, pp. 93-100. **SP305-4.**

Methacrylates; Polymerization; Resins; Synthesis; Accelerators; Amines; Color-stable composites; *12302. SP305-3.*

Methacrylates; Polymers; Resin; Silane; Tantalum; Zirconium; Aluminum; Composites; Coupling agents gold; Mercaptan; *13620. SP305-5.*

Methane; Constant volume; Heat capacity; Liquid; Saturated liquid; Specific heat; *J78A No. 3, 401-410 (1974). SP305-6.*

Methane; Cryogenic; Density; Flow; Importation; Liquefied natural gas; Measurement; *14071. SP305-6.*

Methane; Equation of state; *14173. SP305-6.*

Methane; Heating value; Heat of combustion; Reference material; Gross heating value; *TN299. SP305.*

Methane; Methane mixtures; Current awareness services; Information retrieval; Information systems; Liquefied Natural Gas; *13535. SP305-5.*

Methane; Methyl; Methylene; Photoionization; Rotational energy; Enthalpy of formation; Ketene; *16060. SP305-8.*

Methane; Methylene; N-butane; Photolysis; Propane; I-butane; Insertion; Ketene; *10170. SP305-1.*

Methane; Methylene; Photolysis; Quantum yields; Deactivation; Insertion reaction; Lifetime; *12996. SP305-4.*

Methane; Methyne; Rate; Vacuum ultraviolet; Acetylene; Combination; Ethane; Ethylene; Flash photolysis; Gas phase; Hydrogen; Hydrogen deuteride; Insertion; *9286. SP305.*

Methane; Metric; Police protection; Safer streets; Security systems; WWW/WWW; Accelerator facilities; Computers; Court records; Fire safety; Forensic science; Law enforcement; *DIM/NBS 59*, No. 3, 49-72 (1975). **SP305-7.**

Methane; Microwave frequency stability; Harmonic generation; Josephson junction; Laser frequencies; *13999. SP305-6.*

Methane; Minimum gas phase equilibrium concentration; Neon; Neon-methane binary system; Solid-vapor equilibrium; Low-temperature phase-equilibrium; *9461. SP305.*

Methane; Mixture adsorption; Nitrogen; Adsorption; Charcoal; Hydrogen; Isotherms; *10759. SP305-1.*

Methane; Mixture, binary; Solution, solid; Argon; Calorimetry; Critical phenomena; Heat capacity; *13161. SP305-5.*

Methane; Mixture, binary solid; Crystal structure; Krypton; *13265. SP305-5.*

Methane; Mixtures; Nitrogen; Propane; Butanes; Clausius-Mosotti function; Density; Dielectric constant; Ethane; Interpolation function; LNG components; *14164. SP305-6.*

Methane; Mixtures; Thermodynamic; Density; Dielectric constant; Electromagnetic properties; Equation of state; Ethane; Hydrocarbon; Liquefied natural gas; Measurements; *16631. SP305-8.*

Methane; Modified Enskog theory; Molecular correlations; Nitrogen; Sound absorption; Argon; Bulk viscosity; Density expansion; *16483. SP305-8.*

- Methane; Molecular dynamics; Potential function; Self-diffusion coefficient; 11-6-8 potential function; Correlation function; Experimental data; Hydrodynamic behavior; 15173. SP305-7.
- Methane; Molecular dynamics; Potential function; Specific heat; Statistical mechanical ensembles; Thermodynamic properties; Three body forces; 15310. SP305-7.
- Methane; Molecular hyperfine spectra; Saturated absorption spectroscopy; Ultrahigh resolution; Laser spectroscopy; 14673. SP305-6.
- Methane; Molecular orbital level sequence; Calculated relative x-ray emission; Carbon K $\alpha$  emission; Fluorine K absorption; Fluorine K $\alpha$  emission; Fluoromethane molecules; 13363. SP305-5.
- Methane; Molecular-beam data; Ortho-para transitions; Radio frequency; Group theory; Inversion splitting; 12323. SP305-3.
- Methane; *m*-6-8 potential; Nitrogen; Oxygen; Rare gases; Thermal conductivity; Thermal diffusion; Viscosity; Carbon dioxide; Diffusion; Dispersion coefficients; 12862. SP305-4.
- Methane; Natural gas; Petroleum; Physical properties; Standard reference materials; Coal; Energy; Fuel; Graphite; Hydrocarbons; Metering; SP434. SP305-8.
- Methane; NBS equation; Scaling laws; Statistical analysis; Steam; Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; 15601. SP305-7.
- Methane; NBS equation; Scaling laws; Statistical analysis; Steam; Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; JPCRD 5, No. 1, 1-52 (1976). SP305-8.
- Methane; Neutralization; Pulse radiolysis; Electron scavengers; Gas phase; Ion-molecule reactions; J77A No. 2, 249-257 (1973). SP305-5.
- Methane; *n*-hexane; Oscillator strengths; Spectra; Electron; Energy loss; 15443. SP305-7.
- Methane; *n*-hexane; Oscillator strength; Electron; Electron scattering; Energy loss; 15444. SP305-7.
- Methane; Nitrogen; Adsorption; Hydrogen; Kinetics; Low temperature; 11351. SP305-2.
- Methane; Nitrogen; Henry's constants; Liquid-vapor phase equilibria; 15519. SP305-7.
- Methane; Nitrogen; Oxygen; Absorption coefficient; Argon; Carbon monoxide; Far infrared; Hydrogen; Liquefied gases; TN390. SP305-2.
- Methane; Nitrogen; Oxygen; Properties of fluids; Review; Thermodynamic; Argon; Bibliography; Compilations; Critical evaluation; Cryogenics; Experimental measurement; Fluorine; Helium; Hydrogen; 13848. SP305-6.
- Methane; Nitrogen; Phase equilibria; Ternary system; Argon; Binary system; Excess Gibbs energy; Liquid-vapor; 13205. SP305-5.
- Methane; Nitrogen; Physical adsorption; Synthetic zeolite; Zeolite; Hydrogen gas; Low temperature; 9841. SP305-1.
- Methane; Nitrogen; Rate constant; Vacuum ultraviolet; CH; Flash photolysis; Hydrogen; Kinetic spectroscopy; 9597. SP305-1.
- Methane; Nitrogen; Saturated liquid; Tables; Apparatus; Density; Experimental; Magnetic suspension; 16645. SP305-8.
- Methane; Nitrogen; Ternary system; Adsorption; Hydrogen; Kinetics; 11748. SP305-2.
- Methane; Noble gases; Potential parameters; Second virial coefficient; Third virial coefficient; Water vapor; Air constituents; Boyle temperature; Deuterium; Hydrogen; Intermolecular potential; Inversion temperature; 13108. SP305-5.
- Methane; Olefins; Paraffins; Propylene; Pyrolysis; Rate constants; Unimolecular theory; Acetylene; Dissociation; Elementary reactions; Ethane; Ethylene; Hydrocarbons; Kinetics; Mechanism; SP357, pp. 17-25. SP305-4.
- Methane; Optical frequency standards; Saturated absorption; Spectroscopy; Laser; 13329. SP305-5.
- Methane; Orthobaric densities; Compressed liquid; Density; Equation of state; J76A No. 2, 81-101 (1972). SP305-4.
- Methane; Orthobaric densities; Specific heats of the saturated liquid; Thermofunctions for ideal gas states; Thermophysical properties; Heats of vaporization; J75A No. 1, 15-21 (1974). SP305-3.
- Methane; Orthobaric densities; Specific heats; Vapor pressure; Coexistence boundary; Critical point; Ethane; Equation of state; Fluids; J79A No. 1, 71-79 (1975). SP305-7.
- Methane; Oxygen; Tungsten; Work function; Binding energy; Chemisorption; Displacement; Hydrogen; 12736. SP305-4.
- Methane; Phase-equilibrium; Solubility of helium in liquid methane; Helium; Helium-methane binary system; Liquid-vapor equilibrium; Low-temperature; 10174. SP305-1.
- Methane; Photochemistry; Photoionization; Quantum yield; Ion-molecule reaction; Ion pair yield; J77A No. 1, 101-110 (1973). SP305-5.
- Methane; Photochemistry; Vacuum ultraviolet; Ammonia; Jupiter; 11375. SP305-2.
- Methane; Photolysis; Quantum yields; C-atoms; Collision deactivation; Free radical reactions; 13172. SP305-5.
- Methane; Photolysis; Rare gas; Charge transfer; Ion-doped molecule reactions; 11095. SP305-2.
- Methane; Physical adsorption; Single crystal; Tungsten; Work function; Adsorption; Field emission; 12735. SP305-4.
- Methane; Polarizability; Dielectric constant; 13957. SP305-6.
- Methane; Pressure broadening; Saturated molecular absorption; Wavelength standard; Laser; 10826. SP305-1.
- Methane; Pressure-density-temperature relations; Thermodynamic properties; 13048. SP305-4.
- Methane; Properties data; Flowmeters; Instrumentation; Liquefied natural gas (LNG); 11821. SP305-3.
- Methane; Pulse radiolysis; Vacuum ultraviolet photolysis; Acetylene formation; Electron scavenger; Ion pair yield; J77A No. 1, 109-114 (1973). SP305-5.
- Methane; Pure components; Propane; Properties data; Calculation methods; Densities; Ethane; Liquefied natural gas mixtures; 13667. SP305-5.
- Methane; Quantum mechanical Hamiltonian; Rotational level; Computer tabulation; Ground vibrational state; Hyperfine splittings; 13682. SP305-5.
- Methane; Quantum yields; Vacuum ultraviolet; Isotope effect; 11041. SP305-2.
- Methane; Rare gas ions; Rate constants; Silane; Charge transfer; Franck-Condon factors; Ion-molecule reaction; 14839. SP305-7.
- Methane; Rate data; Atomic oxygen; Ethane; Evaluation; 13292. SP305-5.
- Methane; Rectilinear diameter law; Refractive index; Refractive index; Interferometry; Laser; 13228. SP305-5.
- Methane; Saturated absorption; CO<sub>2</sub> and He-Ne laser frequency; 13227. SP305-5.
- Methane; Saturated absorption; CO<sub>2</sub> and He-Ne laser frequency; 14321. SP305-6.
- Methane; Saturated absorption; Wavelength; Wavelength standards; Interferometry; Laser; 13228. SP305-5.
- Methane; Saturated absorption; Zeeman effect; Lasers; 12175. SP305-3.

thane; Saturated liquid; Table; Torsional crystal; Viscosity; Comparisons; Graph; 14234. SP305-6.

thane; Scaling law; Specific heat; Xenon; Compressibility; Critical point; Equation of state; Fluid; Helium; Low temperature; J76A No. 3, 207-211 (1972). SP305-4.

thane; Selection rules; Symmetry species; Tetrahedral; Energy levels; Hyperfine interactions; 16376. SP305-8.

thane; Self-diffusion coefficient; Argon; Critical review; Krypton; Measurement technique; 14831. SP305-7.

thane; Slush methane; Slush natural gas; Binary mixtures; Cryogenic mixtures; Liquefied natural gas; 13005. SP305-4.

thane; Sound velocity; Specific heat ratio; Compressibility; 4331. SP305-6.

thane; Sound velocity; Specific heat ratio; Compressibility; Interferometry; Light scattering; 15639. SP305-7.

thane; Spectroscopy; Hyperfine spectrum; Laser stabilization; 3519. SP305-5.

thane; Thermal conductivity; Thermal conductivity coefficient; Viscosity coefficient; Correlation; Critical point; Equation of state; 15184. SP305-7.

thane; Thermodynamic properties; Transport properties; Bibliography; Equation of state; Low temperature; Mechanical properties; TN367. SP305-1.

thane; Thermodynamic properties; Transport properties; Correlation; Equation of state; Excess function; Hydrogen; Interpolation methods; Least squares; 15731. SP305-8.

thane; Thermophysical properties; Vapor pressures; Virial coefficients; Melting pressures; J74A No. 5, 655-660 (1970). P305-2.

thane; Triple-point constants; Vapor pressure; Boiling point; Critical-point pressure; Melting pressure; 12896. SP305-4.

thane; Tungsten; Carbon dioxide; Catalytic; Chemisorption; Decomposition; Formaldehyde; 13663. SP305-5.

thane; Vibronic transition; Carbon-K-absorption threshold; First Rydberg transition;  $L_{a_1}^{-1}$  hole state calculation; 13913. P305-6.

thane frequency; Cesium frequency; Frequency multiplication; Infrared frequency synthesis; Josephson junction; Lasers; 14399. SP305-6.

thane frequency standard; Phase noise; Unified standard; Allan variance; Base units; Fast linewidth; Frequency multiplication; Infrared frequency metrology; Josephson effect; Linewidth; 13995. SP305-6.

thane frequency standard; Saturated absorption; Time standard; Frequency stability; He-Ne laser; Laser stabilization; Length standard; 12953. SP305-4.

thane frequency standard; Speed of light; Unified standard; Cesium beam frequency standard; Dissemination systems; IMF standard; Frequency and time metrology; Frequency standards; Infrared frequency synthesis; International System of Units; 12960. SP305-4.

thane mixtures; Current awareness services; Information retrieval; Information systems; Liquefied Natural Gas; Methane; 13535. SP305-5.

thane resonance; Molecular beam; Ramsey resonance; Saturated absorption; Stabilized laser; Transition probability; Frequency standard; 13800. SP305-5.

thane, specific heats; Thermal conductivities; Thermodynamic functions; Viscosities; Dielectric constants; 3049. SP305-4.

thane spectra; Recoil; Saturated absorption; Laser spectroscopy; 14951. SP305-7.

thane stabilized helium-neon lasers; Noise studies; Quartz crystal oscillators; Quartz crystal resonators; Accuracy; Atomic clocks; Cesium standards; Hydrogen standards; Hydrogen storage device; 14846. SP305-7.

thane sulfonyl fluoride; Methyl sulfone; Microwave spectra; Molecular structure; Dipole moment; Internal rotation; 4402. SP305-6.

Methane-absorption stabilized; Strainmeter; Interferometer; 12810. SP305-4.

Methane-liquid hydrocarbon binary mixtures; Critical loci; Excess Gibbs' energies; Henry's constants; Liquid-vapor equilibria; 16637. SP305-8.

Methane-n-pentane system; N-pentane; Thermodynamics; Evaluated data; Liquid-vapor equilibria; NSRDS-NBS32. SP305-2.

Methane-stabilized He-Ne laser; Speed of light; Frequency metrology; Frequency of lasers; Infrared frequency synthesis; Laser frequency stabilization; 13069. SP305-5.

Methane-stabilized He-Ne laser; Speed of light; Frequency metrology; Frequency of lasers; Infrared frequency synthesis; Laser frequency stabilization; 12958. SP305-4.

Methane-stabilized laser; Laser; Light; 13226. SP305-5.

Methanol; Carbon-13; 14168. SP305-6.

Methanol; Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Torsion; Internal rotation; Interstellar molecules; J. Phys. Chem. Ref. Data 2, No. 2, 205-214 (1973). SP305-6.

Methanol; Mixed solvents; Piperazine; PK; Thermodynamics; Dissociation constant; Ionization constant; J74A No. 5, 667-671 (1970). SP305-2.

Methanol; *m*-nitrophenol; Nonaqueous solvents; Phenols; Thermodynamics; Dissociation; Electrolytes; J71A1-430, 9-12 (1967). SP305.

Methanol; Nonaqueous; Solvent effects; Acid-base; Ammonia; Ammonium; Buffer solutions; Dissociation constant; Electrolytes; Ionization; 9977. SP305-1.

Methanol; Oscillator strengths; Acetone; Energy loss spectra; Ethanol; 14608. SP305-6.

Methanol; Radiation chemistry; Rates; Review; Chemical kinetics; Data compilation; NSRDS-NBS54. SP305-7.

Methanol; Stress corrosion; Titanium; Titanium 8-1-1; Vapor phase failure; 10503. SP305-1.

Methanol; Vacuum-ultraviolet photolysis;  $CH_3OH$ ; Force constants; Infrared spectrum; Matrix isolation; 13581. SP305-5.

Methanol-water mixtures; Solvent effects; Substituted phenols; Dissociation constant; J70A6-427, 553-556 (1966). SP305.

Methanol-water solvents; Acidity; Acids; Bases; Medium effects; 9563. SP305-1.

Methanol-water solvents; Solubility; Tris(hydroxymethyl)aminomethane; Dissociation constant; Medium effect; J72A No. 2, 141-148 (1968). SP305-1.

Methanol-water solvents; Thermodynamics; Acidity; Analytical chemistry; Conductance; Deuterium oxide; Dissociation processes; Electrochemistry; Electrolytes; Emf; Indicators; Isoelectric; Vapor pressure; TN400. SP305.

Methanol-water solvents; Thermodynamics; Acid-base equilibria; Aminopyridine; Dissociation constant; Electrolytic dissociation; 9493. SP305.

Method; Photochemistry; Resonance fluorescence; Vibrational relaxation; Apparatus; Energy transfer; Metals; 13900. SP305-6.

Method biases; Nuclear track technique; Practical samples; Radiochemistry; Trace analysis techniques; Accuracy error limits; Activation analysis; Atomic absorption; Instrument biases; Isotope-dilution; 13763. SP305-5.

Method evaluation; Multielemental analysis; Activation analysis; Charged particle; Cyclotron; SP422, pp. 1215-1232 (Aug. 1976). SP305-8.

Method evaluation; Trace metal analysis; Accuracy; Flameless atomic absorption; Freshwater; Interlaboratory comparison; SP422, pp. 247-265 (Aug. 1976). SP305-8.

Method of Least Squares; Carl Friedrich Gauss; 10545. SP305-1.

Method of least squares; Metron; Moments; Norbert Wiener; Office of Weights and Measures; Path-space measure; Pierre Simon de Laplace; Rejection of observations; Stirling's formula; Stirling's numbers; 11618. SP305-2.

- Method of measurement, electrical; Semiconductor devices; Temperature, peak; Thermal properties; Transistors, power, safe-operating area; *15493. SP305-7.*
- Method of selected points; Millimeter waves; Multiple reflections; Outliers; Perpendicular polarization; Quasi-optics; Reflection coefficient; Transverse displacement; Vector solution; Approximation errors; Complex dielectric constant; *TN369. SP305-1.*
- Method performance characteristics; Minimum and maximum detectable ages; Radiocarbon dating; Statistical limitations; Age resolution; Extraneous random errors; Factor of merit components; *13875. SP305-6.*
- Methodology; Human factors; Mail handling; Mail processing; Mail sorting; *11948. SP305-3.*
- Methodology; Naturalistic studies; Safety; Accident research; Countermeasures; Epidemiology; Laboratory research; *NBS-GCR-76-75. SP305-8.*
- Methodology; Optical-coincidence; Patents; References; Search; Systems; Thinking; Information retrieval; Information storage; Mechanized; *10527. SP305-1.*
- Methodology; Relative humidity; Structural sandwich panel; Temperature; Testing; Building composite; Building material; Conditioning; Equilibration; Gypsum wallboard; *NBSIR 75-767. SP305-7.*
- Methodology; Safety; Accidents; Accident research; Consumer accidents; Epidemiology hazards; Home safety; *NBS-GCR-76-76. SP305-8.*
- Methodology; Trace element analyses; Atomic absorption spectrometry; Blood analyses; Contaminations; Flameless methods; Lead; Lead blood analyses; *SP422, pp. 715-719 (Aug. 1976). SP305-8.*
- Methods; Models; Decisionmaking; *14660. SP305-6.*
- Methods; Organic; Oxidation; Periodates; Review; Application; Bio-organic; *14154. SP305-6.*
- Methods and limitations; Recent results; Review; Speed of light; *9546. SP305-1.*
- Methods of calorimetry; Standard reference substances; Symbols; Terminology; Definitions; Heat constants; Heat units; *10960. SP305-2.*
- Methods of chemical analysis; Microchemical analysis; Microscopic analysis; Polarographic analysis; Specific ion electrodes; Coulometric analysis; Gas analysis; *TN455. SP305-1.*
- Methods of machining and finishing; Surface-dependent properties; Surface finishing; Machining; Machining costs; *SP348, pp. 1-3. SP305-4.*
- Methods of measurement; Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Recombination centers; Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; *TN754. SP305-5.*
- Methods of measurement; Microelectronics; Microwave diodes; Probing techniques (a-c); Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; *TN773. SP305-5.*
- Methods of measurement; Microelectronics; Microwave diodes; Probing techniques (a-c); Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; *TN788. SP305-5.*
- Methods of measurement; Microelectronics; Microwave diodes; Mobility; Pull test; Recombination centers; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; *TN806. SP305-5.*
- Methods of measurement; Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN717. SP305-4.*
- Methods of measurement; Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN727. SP305-4.*
- Methods of measurement; Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; *TN733. SP305-4.*
- Methods of measurement; Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Recombination centers; Resistivity; Ribbon-wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; *TN743. SP305-4.*
- Methods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN702. SP305-3.*
- Methods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN571. SP305-3.*
- Methods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN592. SP305-3.*
- Methods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN598. SP305-3.*
- Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal properties; Wire bonds; Carrier lifetime; Electrical properties; Germanium; *TN472. SP305-1.*
- Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; *TN475. SP305-1.*
- Methods of measurement; Microelectronics; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; *TN488. SP305-1.*
- Methods of measurement; Microelectronics; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; *TN495. SP305-1.*
- Methods of measurement; Microelectronics; Microwave diodes; Mobility; MOS devices; Oxide films; Photomasks; Photoresist; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; *SP400-1. SP305-6.*
- Methods of measurement; Microelectronics; Microwave diodes; Mobility; MOS devices; Oxide films; Photomasks; Photoresist; Platinum wire resistivity; Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor device; Semiconductor materials; *SP400-4. SP305-6.*



ethods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN520. SP305-2.*

ethods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon thermal resistance; Thermographic measurements; Ultrasonic bond; *TN527. SP305-2.*

ethods of measurement; Microelectronics; Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bond; *TN555. SP305-2.*

ethods of measurement; Oxygen in germanium; Oxygen in silicon; Silicon; Absorption coefficient; Germanium; Infrared absorption; *TN529. SP305-2.*

ethods of measurement; Power transistors; Reliability; Thermal hysteresis; Thermal resistance; Thermographic measurements; Transistor screening; Current constrictor; DC current gain; Hot-spot screening; *12474. SP305-4.*

thoxide; Sulfonic esters; 2,3:4,5-dianhydro-D-iditol; Expoxide formation; D-mannitol; *11158. SP305-2.*

thoxy; N.m.r.; Siloxane; Stereochemistry; Synthesis; Tungsten; Fluorine; *11630. SP305-2.*

thoxy; Nuclear magnetic resonance; Organosilanes; Oranox; Stereochemistry; Synthesis; Tungsten(VI) halides; Alkoxy; Chlorides; Exchange reactions; Fluorides; *12646. SP305-4.*

thyl; Methylene; Number average molecular weight; Spectra; Spectrophotometry; Infrared; Linear polyethylene; *J.76A No. 1, 141-142 (1972). SP305-4.*

thyl; Methylene; Photoionization; Radicals; Vacuum ultraviolet; Enthalpy of formation; Ions; Mass spectrometry; *5351. SP305-7.*

thyl; Methylene; Photoionization; Rotational energy; Enthalpy of formation; Ketene; Methane; *16060. SP305-8.*

thyl; Methylene; Photolysis; Rotation; Spectrum; Ultraviolet; Vacuum ultraviolet; Free radical; Infrared; Matrix isolation; *4040. SP305-1.*

thyl; Methylene; Radicals; Rate constant; Combination; Flash photolysis-gas chromatography; *15205. SP305-7.*

thyl; Nitric oxide; Oxygen; Rate constants; Combination; Kinetics; *15328. SP305-7.*

thyl; Radical; Rate constant; Absorption spectroscopy; Combination; F-number; *13915. SP305-6.*

thyl alcohol; Population inversion; Radio astronomy; Emission line; Interstellar medium; Laboratory measurement; *5994. SP305-8.*

thyl azide; Methyleneimine; Normal coordinate analysis; Photolysis; Thermodynamic properties; C=N bond; Infrared spectrum; Isotopic substitution; Matrix isolation; *15110. SP305-7.*

thyl branches; Paraffins; Polyethylene; Potential energy calculations; Relaxation strength; Two-site model; Mechanical relaxation; *14752. SP305-7.*

thyl branches; Paraffins; Polyethylene; Potential energy calculations; Relaxation mechanism; Relaxation strength; Site model; Mechanical relaxation; *15329. SP305-7.*

thyl bromide; Microwave; Pumping; Saturation; Double resonance; Infrared; Laser; *10422. SP305-1.*

thyl chloride; Perturbations; Spectra; Vibrational resonance; Absorption spectra; Infrared; *10578. SP305-1.*

thyl cyanide; Microwave spectroscopy; Cyanocetylene; Direct l-type doubling transitions; Fluorocyanogen; l-type doubling constants; l-type resonance; *10385. SP305-1.*

thyl cyclopentene; Photoionization; Vacuum ultraviolet; Cyclopentene; Ion-molecule reactions; Mass spectrometry; *1488. SP305-6.*

Methyl fluoride; Thermodynamic properties; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Carbon atom reaction; CF; Force constants; HCF;  $H_2CF$ ; HF reaction; Infrared spectrum; Isotopic substitution; Matrix isolation; *11341. SP305-2.*

Methyl group; Molecular reorientation; Neutron scattering; Neutron spectra; Phase transitions; Torsional vibrations; Barrier to rotation; Cosine potential; Globular molecules; Hindered rotation; *10039. SP305-1.*

Methyl group; Neutron wavelength; Total neutron cross section; Barrier to rotation; Cross-section slope; Free rotation; *10041. SP305-1.*

Methyl group branches; Polyethylene; Raman spectroscopy; Alkanes; Longitudinal acoustical mode; *16279. SP305-8.*

Methyl groups; Neutron scattering; Torsional modes; Barrier to rotation; Cosine potential; Frequency spectra; Hindered rotation; *10424. SP305-1.*

Methyl halides; Optical heterodyne spectroscopy; Quadrupole hyperfine interactions; Saturated absorption spectroscopy; High resolution spectroscopy; *16407. SP305-8.*

Methyl halides; Vacuum ultraviolet spectroscopy; Dissociation energies; HCl; Ionization; Mass spectrometry; *J.72A No. 4, 281-293 (1968). SP305-1.*

Methyl iodide; Molecular geometry; Molecular structure; Spectra; Absorption; Gas; Infrared; *11973. SP305-3.*

Methyl iodide; Photolysis; D-atom; H-atom; Hot methyl radicals; *10495. SP305-1.*

Methyl ketene; Analysis; Gas chromatography; Ketene; *12164. SP305-3.*

Methyl radicals; Methylene; Spectroscopy; Vacuum UV; Oscillator strengths; *12290. SP305-3.*

Methyl radicals; Neopentane; Pyrolysis; Shock tubes; *t*-butyl radicals; 2,2,3-trimethylbutane; Bond energies; Decomposition; Hexamethylethane; Isopropyl radical; *10106. SP305-1.*

Methyl stearate; Pressure; Crystalline polymers; Dielectric measurements; Dielectric relaxation; Dynamical diffusion; Gruneisen constant; *12572. SP305-4.*

Methyl sulfone; Microwave spectra; Molecular structure; Dipole moment; Internal rotation; Methane sulfonyl fluoride; *14402. SP305-6.*

Methyl sulfoxide; Acetic anhydride; Aromatization; Inositol; *9704. SP305-1.*

Methyl sulfoxide; *myo*-inositol; Acetic anhydride; Aromatization; Benzene; pentol (pentahydroxybenzene); Ester; *10938. SP305-2.*

Methyl sulfoxide; Oxygen; Radical-anion; Bis(phenylhydrazine); E.s.r.; Glyoxal; *J.75A No. 6, 573-577 (1971). SP305-3.*

Methyl surfaces; *n*-paraffins; Polyethylene; Thermodynamic properties; Convergence temperature; Melting temperatures; *J.70A6-421, 481-486 (1966). SP305.*

Methyl Yellow; Nile Blue A and derivatives; Nile Blue oxazone; Nonaqueous acid-base spectrophotometry; Nonaqueous acid-base titrations; Phenyl diethyl Nile Blue; *p*-tolyl di-*n*-propyl Nile Blue base; Relative strengths of indicator dyes; *9660. SP305-1.*

Methylacetylene; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Allene;  $C_2H_2$  ( $n \approx 0$  to 3); Infrared spectrum; Isotopic substitution; Matrix isolation; *14237. SP305-6.*

Methylation; Nucleophilic reactivity; Onium salts; Polar solvents; Pollutants; Quaternization; Alkyl halides; Antimony; Arsenic; Environment; Kinetics; *16628A. SP305-8.*

Methylation of metals; Microbial transformation; Speciation; Volatile metal compounds; Detection; Flameless atomic spectrophotometry; Gas chromatography; Graphite furnace; *16409. SP305-8.*

Methylbenzenes; Methyl groups; Neutron scattering; Torsional modes; Barrier to rotation; Cosine potential; Frequency spectra; Hindered rotation; Internal rotation; *10424. SP305-1.*



- Methylbenzenes; Neutron scattering; Torsional vibrations; Ammonium salts; Cross section; Crystals; Hindered rotation; 12818. SP305-4.
- Methylbenzenes, methyl group; Molecular structure; Torsional oscillation; Barrier to rotation; Conformation; Crystal structure; Durene; Libration; 13222. SP305-5.
- Methylchlorophosphines; Phosphorus halides; EPR; Free radicals; Irradiation; Low-temperature reaction; 11636. SP305-2.
- Methylcyclopentane; Parent ions; Charge transfer reactions; Cycloalkanes; Cyclohexane; Gas phase; 14899. SP305-7.
- Methylcyclopropane; Photoionization; Photolysis; Radiolysis; Butene; Cyclobutane; Ion structure; Isomerization; *J. 75A* No. 6, 591-605 (1971). SP305-3.
- Methylene; Abstraction; Deuterium; Isotope effect; Ketene; Kinetics; 12331. SP305-3.
- Methylene; Bond energy; Enthalpy of formation; Heat of formation; Ketene; 12252. SP305-3.
- Methylene; N-butane; Photolysis; Propane; I-butane; Insertion; Ketene; Methane; 10170. SP305-1.
- Methylene; NMR;  $^{13}\text{C}$ ; Alkane; Chemical shift tensor; 16041. SP305-8.
- Methylene; Number average molecular weight; Spectra; Spectrophotometry; Infrared; Linear polyethylene; Methyl; *J. 76A* No. 2, 141-142 (1972). SP305-4.
- Methylene; Photodecomposition; Excited state; Hydrogen formation; Ketene; 11040. SP305-2.
- Methylene; Photoionization; Radicals; Vacuum ultraviolet; Enthalpy of formation; Ions; Mass spectrometry; Methyl; 15351. SP305-7.
- Methylene; Photoionization; Rotational energy; Enthalpy of formation; Ketene; Methane; Methyl; 16060. SP305-8.
- Methylene; Photolysis; Abstraction; Isobutane- $d_6$ ; Ketene; 9322. SP305.
- Methylene; Photolysis; Quantum yields; Deactivation; Insertion reaction; Lifetime; Methane; 12996. SP305-4.
- Methylene; Photolysis; Rotation; Spectrum; Ultraviolet; Vacuum ultraviolet; Free radical; Infrared; Matrix isolation; Methyl; 10404. SP305-1.
- Methylene; Radical; Rate constant; Singlet; Triplet; Inorganics; 14701. SP305-6.
- Methylene; Radicals; Rate constant; Combination; Flash photolysis-gas chromatography; Methyl; 15205. SP305-7.
- Methylene; Spectroscopy; Vacuum UV; Oscillator strengths; Methyl radicals; 12290. SP305-3.
- Methylene  $\text{CH}_2$ ; Vacuum UV; Absolute reaction rates; Diazomethane; Flash photolysis; Ketene; Kinetics; 11721. SP305-2.
- Methylene insertion reaction; Propane; Radical scavenging; Vacuum ultraviolet photolysis; Equipartition of energy; Hydrogen iodide; 14492. SP305-6.
- Methylenimine; Microwave spectrum; Pyrolysis; Quadrupole structure; Rotational transitions; Transient species; 13066. SP305-5.
- Methylenimine; Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Hyperfine structure; Interstellar molecules; *J. Phys. Chem. Ref. Data* 2, No. 1, 1-10 (1973). SP305-6.
- Methylenimine; Normal coordinate analysis; Photolysis; Thermodynamic properties;  $\text{C}\equiv\text{N}$  bond; Infrared spectrum; Isotopic substitution; Matrix isolation; Methyl azide; 15110. SP305-7.
- Methylmercury; Nuclear activation analysis; Phenylmercuric acetate; Freeze-drying; Lyophilization; Mercury; Mercury loss; 13493. SP305-5.
- Methylmercury; Sediments; Anaerobic bacteria; Atomic absorption; Chesapeake Bay; Dimethylmercury; Estuary; Facultative bacteria; Gas chromatography; Mercury; Metabolites; 14526. SP305-6.
- Methylsulfoxide; Periodic; Pigment; Structure; Acid; Bile Bilirubin; Biliverdine; Charge-transfer; Complex; Degradation; Iodine; 12530. SP305-4.
- Methylthiotetrafluorophosphorane; Nuclear magnetic resonance; Phosphorus; Fluorine; 14798. SP305-7.
- Methyne; Rate; Vacuum ultraviolet; Acetylene; Combination; Ethane; Ethylene; Flash photolysis; Gas phase; Hydrogen; Hydrogen deuteride; Insertion; Methane; 9286. SP305.
- Metre; Ozone problem; Police communications; Water pollution; X rays; Air pollution; Camera guidelines; Computerized elections; Dental fillings; *DIM/NBS* 59, No. 5, 97-121 (1975). SP305-7.
- Metric; Nuclear activation analysis; Roofing systems; Toot decay; Disaster losses; Energy systems; Flammable fabric (FFACTS); *TNB* 57, No. 5, 101-128 (1973). SP305-5.
- Metric; Nuclear power; Police radars; Solar energy; SRM; Computer systems; Environmental; Fire; Glass door; Lead nitrate; Mercury thermometers; *DIM/NBS* 60, No. 2, 1-2 (1976). SP305-8.
- Metric; Packaging and labeling; Police radar equipment; Standards; Supermarket automation; Weights and measures; Calibration; Communication; Consumers; Grain moisture measurement; Laws and regulations; Measurement; *SP44*. SP305-8.
- Metric; Police protection; Safer streets; Security system; WWW/VVVH; Accelerator facilities; Computers; Cou records; Fire safety; Forensic science; Law enforcement; Methane; *DIM/NBS* 59, No. 3, 49-72 (1975). SP305-7.
- Metric; Pressure transducers; Thermal comforts; Weights and measures; Building industry; Calibration system; Centigrade/celsius; Computer; Electrical industries; Environments; Glass standards; Government intervention; Heating/cooling; *DIM/NBS* 60, No. 10, 1-24 (1976). SP305-8.
- Metric; Protecting nuclear fuels; Computers; Energy research; Ethylene; Fabric flammability; Glass standards; Household fires; Jet engines; Measurement seminars; *DIM/NBS* 59, No. 1, 1-24 (1975). SP305-7.
- Metric; Pulses; Robot; Sound; Construction; Dry weight; Ear Energy; Health care; Hospitals; Measurement science; Meteorology; *DIM/NBS* 59, No. 10, 218-239 (1975). SP305-7.
- Metric; Safety; WWW/VVVH; Computer; Energy measurement; EPIC; FIPS; Kitchen ranges; Mercury; Metal fire; *DIM/NBS* 60, No. 1, 1-24 (1976). SP305-8.
- Metric; SI symbols; SI units; 16172. SP305-8.
- Metric; Symbols; Units; Constants; Definitions; Electronics; Engineering; *SP368*. SP305-4.
- Metric; Technology assessment; Business and industry; Economy; Education; International relations; International standards; International trade; 12491. SP305-4.
- Metric; Technology assessment; Business and industry; Economy; Education; International relations; International standards; International trade; 12586. SP305-4.
- Metric changeover; Safety; Air conditioners; Appliance; Cement; Computer; Energy; Energy labels; Fire fatalities; Hydrogen fuel; Magneto-hydrodynamics; *DIM/NBS* 59, No. 121-144 (1975). SP305-7.
- Metric chart; Metric information; Bibliography of metric information; Customary units; History of measurement systems; *SP410*. SP305-7.
- Metric chart; RF measurements; Runway capacities; Semiconductor materials test; Speed of light; Measures for air quality; *TNB* 57, No. 1, 1-24 (1973). SP305-5.
- Metric charts; Metric information sources; Metric publications; *SP389*. SP305-5.
- Metric computer program; Migrant camps; Thermestestime; Air conditioners; Clean air; Drunk drivers; Energy labels; Fundamental constants; Irradiated foods; *DIM/NBS* 58, No. 1, 1-24 (1974). SP305-6.

metric conversion; Metric conversion, effect on foreign trade; Metric system; Metric usage; Metric usage, effect on foreign trade; Metrication; Metrication, impact of on foreign trade; SI; U.S. Metric Study; Foreign trade; *SP345-8. SP305-3.*

metric conversion; Metric roll call; Metrology; Public Law 93-380; Public Law 94-168; Anthropomorphic units; Bicentennial; History of measurement; *16195. SP305-8.*

metric conversion; Metric system; Metric usage; Metrication; Public Law 90-472; U.S. Metric Study; *SP345. SP305-3.*

metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Federal Government; International System of Units; *SP345-2. SP305-3.*

metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Commercial weights and measures; International System of Units; *SP345-3. SP305-3.*

metric conversion; Metric system; Metric usage; SI; U.S. Metric Study; International System of Units; Manufacturing industry; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; *SP345-4. SP305-3.*

metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Nonmanufacturing businesses; SI; U.S. Metric Study; International System of Units; *SP345-5. SP305-3.*

metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Education; International System of Units; *SP345-6. SP305-3.*

metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; Consumers; *SP345-7. SP305-3.*

metric conversion; Metric system; Metrication; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Department of Defense; International System of Units; *SP345-9. SP305-3.*

metric conversion; Metric system; Metrication; Metrication and engineering standards; SI; Standards; U.S. Metric Study; Engineering standards; International standards; International system of units; *SP345-11. SP305-3.*

metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; International System of Units; *SP345-12. SP305-3.*

metric conversion; Net weight; Package control; Petroleum products; Scales; Survey; Temperature compensation; Uniformity; Weights and measures; Digital indicators; Drained weight; Laws and regulations; Metrication; *SP407. SP305-7.*

metric conversion; Piezoelectric accelerometers; Sun; Buildings; Computer codes; Computer networks; Computers; Copyrights; Energy; Epoxies; Hazard; *DIJ/NBS 59, No. 4, 3-96 (1975). SP305-7.*

metric conversion; Planning and scheduling; Building regulations; Dimensional coordination; *16556. SP305-8.*

metric conversion; Planning and scheduling; Building regulations; Dimensional coordination; *TN915. SP305-8.*

metric conversion; Round off; Computer program; *15406. SP305-7.*

metric conversion; Rounding; Test problem; Tolerance; Caterpillar Tractor Co.; Computer program; Documentation; Engineering drawing; General Motors Corporation; *TN872. SP305-7.*

Metric conversion; SI units; Standards; ADP standards; Computers; Data processing, Federal Information Processing Standards; *FIPS PUB 34. SP305-7.*

Metric conversion, effect on foreign trade; Metric system; Metric usage; Metric usage, effect on foreign trade; Metrication; Metrication, impact of on foreign trade; SI; U.S. Metric Study; Foreign trade; International System of Units; *SP345-8. SP305-3.*

Metric education; Metric system; Training; Treaty of the Meter; Education; International System of Units; Metrication; *SP441. SP305-8.*

Metric information; Bibliography of metric information; Customary units; History of measurement systems; Metric chart; *SP410. SP305-7.*

Metric information sources; Metric publications; Metric charts; *SP389. SP305-5.*

Metric psychrometric charts; Psychrometric charts; Psychrometric formula; Temperature for moist air and enthalpy; Thermodynamic watt bulb temperature; Instrumentation-measurement; *9659. SP305-1.*

Metric publications; Metric charts; Metric information sources; *SP389. SP305-5.*

Metric roll call; Metrology; Public Law 93-380; Public Law 94-168; Anthropomorphic units; Bicentennial; History of measurement; Metric conversion; *16195. SP305-8.*

Metric spaces; Topology; Contractions; Functional analysis; *J71B2&3-202, 73-76 (1967). SP305.*

Metric spaces; Topology; Contractions; Functional analysis; *J73B No. 4, 301-305 (1969). SP305-1.*

Metric study; PL 90-472; Product certification; Standards; U.S. Metric Study; Engineering standards; IEC; International standardization; ISO; *SP345-1. SP305-2.*

Metric System; Conversion; FORTRAN; *15490. SP305-7.*

Metric system; Conversion; International standards; Legislation; Measurement language; Metrication; *14837. SP305-7.*

Metric system; International system (SI); Measurement language; *12571. SP305-4.*

Metric system; International system (SI); Conversion factors; *H102. SP305.*

Metric system; Metric system study; International system of units; Measurement systems; *11417. SP305-2.*

Metric system; Metric usage; Metrication; Public Law 90-472; U.S. Metric Study; Metric conversion; *SP345. SP305-3.*

Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Federal Government; International System of Units; Metric conversion; *SP345-2. SP305-3.*

Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Commercial weights and measures; International System of Units; Metric conversion; *SP345-3. SP305-3.*

Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Nonmanufacturing businesses; SI; U.S. Metric Study; International System of Units; Metric conversion; *SP345-5. SP305-3.*

Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Education; International System of Units; Metric conversion; *SP345-6. SP305-3.*

Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; Consumers; International System of Units; *SP345-7. SP305-3.*

Metric system; Metric usage; Metric usage, effect on foreign trade; Metrication; Metrication, impact of on foreign trade;

- SI; U.S. Metric Study; Foreign trade; International System of Units; Metric conversion; *SP345-8. SP305-3.*
- Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; International System of Units; Metric conversion; *SP345-12. SP305-3.*
- Metric system; Metric usage; Public Law 90-472; *11759. SP305-2.*
- Metric system; Metric usage; SI; U.S. Metric Study; International System of Units; Manufacturing industry; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Metric conversion; *SP345-4. SP305-3.*
- Metric system; Metrication; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Department of Defense; International System of Units; Metric conversion; *SP345-9. SP305-3.*
- Metric system; Metrication; Metrication and engineering standards; SI; Standards; U.S. Metric Study; Engineering standards; International standards; International System of Units; Metric conversion; *SP345-11. SP305-3.*
- Metric system; Modernized metric system; SI; Weights and measures; International system of units; Measurement systems; *SP304. Revised October 1972. SP305-4.*
- Metric system; Modernized metric system; SI; Weights and measures; International system of units; Measurement systems; *SP304A. Revised October 1972. SP305-4.*
- Metric system; Modernized metric system; SI; Weights and measures; International system of units; Measurement systems; *SP304A. SP305-7.*
- Metric system; Packaging; Size rationalization; State and federal laws and regulations; Labeling; *14628. SP305-6.*
- Metric system; Paper machines; Planning; Standards; United States; Units of measures; Changeover; Foreign trade; *12991. SP305-4.*
- Metric system; Physical constants; SI; Units; *9913. SP305-1.*
- Metric system; Second; Standards for physical measurement; Temperature; Time; Ampere; Candela; Current; Degree Kelvin; International System of Units; Kilogram; Length; Luminous intensity; Mass; Meter; *9796. SP305-1.*
- Metric system; SI; Timetable for metrication; Conversion to metric; Government metrication; Metrication; *16231. SP305-8.*
- Metric system; SI; Weights and measures; *CIS7. SP305-5.*
- Metric system; SI units; Accommodation; Adaptation; Conversion; Customary units (U.S.); Economic costs; Interchangeability; International cooperation; *11246. SP305-2.*
- Metric system; SI units; English measurement system; Measurement systems; *SP304. SP305-1.*
- Metric system; Standards; Units of measurement; Weights; History of measurement standards; Measures; *SP447. SP305-8.*
- Metric system; Trade advantages; Cost of transition; Industrial cooperation; *11760. SP305-2.*
- Metric system; Training; Treaty of the Meter; Education; International System of Units; Metrication; Metric education; *SP441. SP305-8.*
- Metric system; Treaty of the meter; English measurement system; Measurement systems; *SP304A. SP305-1.*
- Metric System; U. S. Customary System; Weights and measures; Weights and measures abbreviations; Weights and measures systems; Weights and measures units; Conversion tables; International System (SI); *M286. SP305.*
- Metric system; U.S. metric study; Foreign trade; Harmonization of standards; Measurement systems; *13121. SP305-5.*
- Metric system; U.S. metric study; Foreign trade; Harmonization of standards; Measurement systems; *13122. SP305-5.*
- Metric system; Weights and measures; *SP345-10. SP305-3.*
- Metric system; Weights and measures; Consumer metric information; International System of Units; Kitchen measurement units; *SP430. SP305-7.*
- Metric system, electroplating industry; Electroplating industry, metrication of; Metal finishing, metric system for; Metrication, electrodeposition; Metrication, electroplating; Metrication, metal finishing; *16353. SP305-8.*
- Metric system study; International system of units; Measurement systems; Metric system; *11417. SP305-2.*
- Metric system study; National Standard Reference Data System; NBS in the coming decade; Public health and safety; Self-calibration by users; Special NBS facilities; Astin-Brandt combustion transition; Astin legacy; Compatibility and reproducibility of measurements; *14344. SP305-6.*
- Metric time; National unified atomic standards; Proper time; Universal coordinated time; Coordinate time; Local atomic standards; *11331. SP305-2.*
- Metric units; Centimeter; Conversion; Customary units; Incl *SP376. SP305-4.*
- Metric units; Nit; SI units in illuminating engineering; Exitance; Illumination; Luminance; Lux; *10295. SP305-1.*
- Metric units; SI; Systems of units; Units of measurement; International System of Units; Measurement units; *15481. SP305-7.*
- Metric units, conversion metric to customary; Metric unit conversion customary to metric; *SP365. SP305-4.*
- Metric units, conversion customary to metric; Metric unit conversion metric to customary; *SP365. SP305-4.*
- Metric usage; Metric usage, effect on foreign trade; Metrication; Metrication, impact of on foreign trade; SI; U.S. Metric Study; Foreign trade; International System of Units; Metric conversion; Metric conversion, effect on foreign trade; *SP345-8. SP305-3.*
- Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Federal Government; International System of Units; Metric conversion; Metric system; *SP345-2. SP305-3.*
- Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Commercial weights and measures; International System of Units; Metric conversion; Metric system; *SP345-3. SP305-3.*
- Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Non-manufacturing businesses; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; *SP345-5. SP305-3.*
- Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Education; International System of Units; Metric conversion; Metric system; *SP345-6. SP305-3.*
- Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; Consumer; International System of Units; Metric conversion; *SP345. SP305-3.*
- Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; *SP345-12. SP305-3.*
- Metric usage; Metrication; Public Law 90-472; U.S. Metric Study; Metric conversion; Metric system; *SP345. SP305-3.*
- Metric usage; Public Law 90-472; Metric system; *11759. SP305-2.*
- Metric usage; SI; U.S. Metric Study; International System of Units; Manufacturing industry; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Metric conversion; Metric system; *SP345. SP305-3.*

Metric usage, effect on foreign trade; Metrication; Metrication, impact of on foreign trade; SI; U.S. Metric Study; Foreign trade; International System of Units; Metric conversion; Metric conversion, effect on foreign trade; Metric system; *SP345-8. SP305-3.*

Metrication; Metric conversion; Net weight; Package control; Petroleum products; Scales; Survey; Temperature compensation; Uniformity; Weights and measures; Digital indicators; Drained weight; Laws and regulations; *SP407. SP305-7.*

Metrication; Metric education; Metric system; Training; Treaty of the Meter; Education; International System of Units; *SP441. SP305-8.*

Metrication; Metric system; Conversion; International standards; Legislation; Measurement language; *14837. SP305-7.*

Metrication; Metric system; SI; Timetable for metrication; Conversion to metric; Government metrication; *16231. SP305-8.*

Metrication; Metrication and engineering standards; SI; Standards; U.S. Metric Study; Engineering standards; International standards; International System of Units; Metric conversion; Metric system; *SP345-11. SP305-3.*

Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Federal Government; International System of Units; Metric conversion; Metric system; Metric usage; *SP345-2. SP305-3.*

Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Commercial weights and measures; International System of Units; Metric conversion; Metric system; Metric usage; *SP345-3. SP305-3.*

Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; International System of Units; Manufacturing industry; *SP345-4. SP305-3.*

Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Nonmanufacturing businesses; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; *SP345-5. SP305-3.*

Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Education; International System of Units; Metric conversion; Metric system; Metric usage; *SP345-6. SP305-3.*

Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; Consumers; International System of Units; Metric conversion; Metric system; Metric usage; *SP345-7. SP305-3.*

Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; Consumers; International System of Units; Metric conversion; Metric system; Metric usage; *SP345-12. SP305-3.*

Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Department of Defense; International System of Units; Metric conversion; Metric system; *SP345-9. SP305-3.*

Metrication; Metrication, impact of on foreign trade; SI; U.S. Metric Study; Foreign trade; International System of Units; Metric conversion; Metric conversion, effect on foreign trade; Metric system; Metric usage; *SP345-8. SP305-3.*

Metrication; National measurement system; Standards; Dynamic force; Economic; Force; *NBSIR 75-929. SP305-8.*

Metrication; Open dating; Procedures; Technical requirements; Technology; Universal product coding; Weights and measures; Administration; Automated checkstand systems; Conference; Consumers; Laws and regulations; *SP391. SP305-6.*

Metrication; Problems of metrication; Codes; Construction conference; Domestic housing, U.S.; Foreign metrication; Levels of conversion; *NBSIR 73-421. SP305-6.*

Metrication; Product-dimensions; Building industry; Conversion; Engineering; Human and modular standards; *15454. SP305-7.*

Metrication; Public Law 90-472; U.S. Metric Study; Metric conversion; Metric system; Metric usage; *SP345. SP305-3.*

Metrication and engineering standards; SI; Standards; U.S. Metric Study; Engineering standards; International standards; International System of Units; Metric conversion; Metric system; Metrication; *SP345-11. SP305-3.*

Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Federal Government; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; *SP345-2. SP305-3.*

Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Commercial weights and measures; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; *SP345-3. SP305-3.*

Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; International System of Units; Manufacturing industry; Metrication; *SP345-4. SP305-3.*

Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Nonmanufacturing businesses; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; *SP345-5. SP305-3.*

Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Education; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; *SP345-6. SP305-3.*

Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; Consumers; International System of Units; Metric conversion; Metric system; Metric usage; *SP345-7. SP305-3.*

Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; *SP345-12. SP305-3.*

Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Federal Government; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; *SP345-2. SP305-3.*

Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Commercial weights and measures; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; *SP345-3. SP305-3.*

Metrication, costs and benefits of; Metrication, impact of; Metric conversion; Metric system; Metric usage; SI; U.S. Metric Study; International System of Units; Manufacturing industry; Metrication; Metrication, attitudes toward; *SP345-4. SP305-3.*

Metrication, costs and benefits of; Metrication, impact of; Nonmanufacturing businesses; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; *SP345-5. SP305-3.*

Metrication, costs and benefits of; Metrication, impact of; SI; U.S. Metric Study; Education; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; *SP345-6. SP305-3.*



- Metritication, costs and benefits of; Metritication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; Consumers; International System of Units; Metric conversion; Metric system; Metric usage; Metritication; *SP345-7. SP305-3.*
- Metritication, costs and benefits of; Metritication, impact of; SI; U.S. Metric Study; Department of Defense; International System of Units; Metric conversion; Metric system; Metritication; *SP345-9. SP305-3.*
- Metritication, costs and benefits of; Metritication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metritication; Metritication, attitudes toward; *SP345-12. SP305-3.*
- Metritication, electrodeposition; Metritication, electroplating; metritication, metal finishing; Metric system, electroplating industry; Electroplating industry, metritication of; Metal finishing, metric system for; *16353. SP305-8.*
- Metritication, electroplating; Metritication, metal finishing; Metric system, electroplating industry; Electroplating industry, metritication of; Metal finishing, metric system for; Metritication, electrodeposition; *16353. SP305-8.*
- Metritication, impact of; Metric conversion; Metric system; Metric usage; SI; U.S. Metric Study; International System of Units; Manufacturing industry; Metritication; Metritication, attitudes toward; Metritication, costs and benefits of; *SP345-4. SP305-3.*
- Metritication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; Consumers; International System of Units; Metric conversion; Metric system; Metric usage; Metritication; Metritication, attitudes toward; *SP345-7. SP305-3.*
- Metritication, impact of; National Metric Study Conferences; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metritication; Metritication, attitudes toward; Metritication, costs and benefits of; *SP345-12. SP305-3.*
- Metritication, impact of; Nonmanufacturing businesses; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metritication; Metritication, attitudes toward; Metritication, costs and benefits of; *SP345-5. SP305-3.*
- Metritication, impact of; SI; U.S. Metric Study; Federal Government; International System of Units; Metric conversion; Metric system; Metric usage; Metritication; Metritication, attitudes toward; Metritication, costs and benefits of; *SP345-2. SP305-3.*
- Metritication, impact of; SI; U.S. Metric Study; Commercial weights and measures; International System of Units; Metric conversion; Metric system; Metric usage; Metritication; Metritication, attitudes toward; Metritication, costs and benefits of; *SP345-3. SP305-3.*
- Metritication, impact of; SI; U.S. Metric Study; Education; International System of Units; Metric conversion; Metric system; Metric usage; Metritication, attitudes toward; Metritication, costs and benefits of; *SP345-6. SP305-3.*
- Metritication, impact of; SI; U.S. Metric Study; Department of Defense; International System of Units; Metric conversion; Metric system; Metritication; Metritication, costs and benefits of; *SP345-9. SP305-3.*
- Metritication, impact of on foreign trade; SI; U.S. Metric Study; Foreign trade; International System of Units; Metric conversion; Metric system, effect on foreign trade; Metric system; Metric usage; Metric usage, effect on foreign trade; *SP345-8. SP305-3.*
- Metritication, metal finishing; Metric system, electroplating industry; Electroplating industry, metritication of; Metal finishing, metric system for; Metritication, electrodeposition; Metritication, electroplating; *16353. SP305-8.*
- Metro; Motor vehicle safety standard 302; Urethane; AM General Bus; Arson; Critical radiant flux; Fire retardant; Flammability; Flooring radiant panel test; *NBSIR 75-718. SP305-7.*
- Metrology; AID; Assistance; Certification programs; Education of metrologists; Industrializing nations; LDC's; *NBSIR 76-988. SP305-8.*
- Metrology; Basic standards; Josephson effect; Lasers; *13053. SP305-4.*
- Metrology; Cryogenics; Fundamental constants; Instrumentation; *14602. SP305-6.*
- Metrology; Education for metrology; Measurements; Measurement techniques; *11900. SP305-3.*
- Metrology; Modern technology; Science comprehension; Space age; *9203. SP305.*
- Metrology; Moon; Tectonics; Geodesy; Geodynamics; Lasers *15794. SP305-8.*
- Metrology; National Bureau of Standards; National Measurement System; National Standard Reference Data System Radio Standards Laboratory; Reference data; Calibration Cost-effectiveness; Data; Economic growth; Information centers; *11036. SP305-2.*
- Metrology; Precision; Propagation of error; Standard deviation Statistical concepts; Control chart; Data analysis; Measurement process; *11797. SP305-2.*
- Metrology; Process control; Analytical inspection; Composit inspection; Gears; Index; Involute; Lead; *10762. SP305-1.*
- Metrology; Process control; Analytical inspection; Composit inspection; Gears; Index; Involute; Lead; *9858. SP305-1.*
- Metrology; Properties of fluids; Properties of solids; Subject in dexes; Superconductivity; Transport processes; Author in dexes; Bibliography; Cryogenics; Liquefaction; *TN635. SP305-5.*
- Metrology; Public Law 93-380; Public Law 94-161 Anthropomorphic units; Bicentennial; History of measurement; Metric conversion; Metric roll call; *16195. SP305-8.*
- Metrology; Quantum electronics; Saturated absorption; Slave oscillators; Accurate frequency standards; Accurate length standards; Accurate time standards; Accurate voltage standards; Ion storage; Laser stabilization; Maser oscillator *12099. SP305-3.*
- Metrology; Research materials; Standard reference material SRM's; Standard Reference Materials Program; Agriculture Air and water pollution; Biology; Botany; Health ar medicine; Instrument calibration; *12349. SP305-3.*
- Metrology; Response time; Sensor; Temperature; Thermometer Time constant; Cryogenic; Instrumentation; Measurement *9944. SP305-1.*
- Metrology; Saturated absorption; Slave oscillators; Quantum electronics; Ion storage; Laser stabilization; Maser oscillator *12068. SP305-3.*
- Metrology; Second-order Doppler shift; Speed of light Frequency multiplication; Fundamental constants; Laser stability; *15980. SP305-8.*
- Metrology; Standard; Unit; Watthour meter calibration Watthour meter; Calibration; Current comparator; Electric energy unit; *14881. SP305-7.*
- Metrology; Standards; State laboratories; Volume measurements; Length measurements; Mass measurements; *SP305-1. pp. 89-94. SP305-3.*
- Metrology; Standards; Units; Education; *10176. SP305-1.*
- Metrology curriculum; Measurement education; *14845. SP305-7.*
- Metrology guides; Sales seminars; Standardization and measurement; Time and frequency; Appliance labeling; Avogadro constant; Biomolecules; Computers; Energy; EPIC; Growth ladders; *DIM/NBS 58, No. 10, 217-239 (1974). SP305-6.*
- Metrology laboratory; Model law and regulations; Technical education; U.S. AID; Calibration and testing; Ecuadorian institute of Standardization (INEN); Field inspections; Measurement length, and volume standards; *13777. SP305-5.*



- Metrology management; National Conference of Standards Laboratories; Physical measurement; Proceedings NCSL; *SP335*. **SP305-3.**
- Metrology management; National Conference of Standards Laboratories; Physical measurement; *SP313*. **SP305-1.**
- Metron; Moments; Norbert Wiener; Office of Weights and Measures; Path-space measure; Pierre Simon de Laplace; Rejection of observations; Stirling's formula; Stirling's numbers; *Théorie analytique des probabilités*; 11618. **SP305-2.**
- Metropolitan; Players; Sectors; Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; 13511. **SP305-5.**
- Metropolitan; Players; Sectors; Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; *NBSIR 73-108*. **SP305-6.**
- Metropolitan; Players; Sectors; Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; *NBSIR 73-110*. **SP305-6.**
- Metropolitan; Players; Sectors; Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; *NBSIR 73-114*. **SP305-6.**
- Metropolitan; Simulation; Social; City; Computer; Computer games; Economic; Government; *NBSIR 74-555*. **SP305-6.**
- Metropolitan players; Sectors; Simulation; Social urban; City; Computer; Director's; Economic; Games; Government; *NBSIR 73-109*. **SP305-6.**
- Metropolitan players; Sectors; Simulation; Social; Urban; City; Computer; Director's; Economic; Games; Government; *NBSIR 73-113*. **SP305-6.**
- Metrorail cars; Neoprene; Smoke; Transportation; Urethane; Flame spread; Flammability; Full-scale fire tests; Laboratory fire tests; *NBSIR 75-971*. **SP305-8.**
- MeV; Neutron; Time-of-flight; Cross section; 12477. **SP305-4.**
- MeV electrons; Targets; Thick targets; Electrons; 14572. **SP305-6.**
- MeV neutrons; Neutron time-of-flight; Neutron total cross sections; *Monogr. 138*. **SP305-6.**
- MeV neutrons; Time-of-flight; Total neutron cross sections;  $^{239}\text{Pu}$ ;  $^{235}\text{U}$ ; 14435. **SP305-6.**
- MeV range 2 to 4.5; Neutrons; Time-of-flight; Hauser-Feshbach; Inelastic-scattering; Measurements; *SP425*, pp. 871-874. **SP305-7.**
- [Fe(OH)<sub>2</sub>EDTA-nH<sub>2</sub>O]; Mössbauer spectroscopy; Photodecomposition; Thermogravimetric analysis; Coordination studies; Hydrogen aquoethylenediaminetetraacetatefer (III) infrared spectroscopy; Magnetic susceptibility; 10606. **SP305-1.**
- g; Mg<sup>2+</sup>; MgO; Stark spectrum; Surface excitons; Bulk excitons; Electron loss spectroscopy; Ionic crystals; Madelung potential; *SP455*, pp. 59-65 (Nov. 1976). **SP305-8.**
- g; Spin susceptibility; Be; Cd; Density of states; Divalent metals; Exchange enhancement; *SP323*, pp. 659-662. **SP305-4.**
- g<sup>3</sup>P<sub>3/2</sub> state; Radiative lifetime; Ca<sup>4</sup>P<sub>3/2</sub> state; Collisional depolarization; Hanle effect; 10080. **SP305-1.**
- g<sub>2</sub> in collagen; MgSO<sub>4</sub> in collagen; Wideline nmr; Collagen; D<sub>2</sub>O in collagen; Deuterium nmr; 14026. **SP305-6.**
- gF; Mg<sup>2+</sup>F<sub>2</sub>; Mg<sup>2+</sup>F<sub>2</sub>; Assignment; Frequency; Geometry; Infrared; Matrix; 9927. **SP305-1.**
- gO; Microstructure; Rock; Zirconia; Alumina; Al<sub>2</sub>O<sub>3</sub>; Ceramics; Electron microscopy; Fine-grain ceramic; Ion bombardment; Magnesia; 12083. **SP305-3.**
- gO; Optical properties; Polarized luminescence; Symmetry; Transition metal ions; Chromium 3+; Crystal vacancies; Cubic crystals; Depolarization; Impurity compensation; Luminescence; Magnesium oxide; 16521. **SP305-8.**
- gO; Stark spectrum; Surface excitons; Bulk excitons; Electron loss spectroscopy; Ionic crystals; Madelung potential; Mg<sup>2+</sup>; Mg<sup>2+</sup>; *SP455*, pp. 59-65 (Nov. 1976). **SP305-8.**
- MgSO<sub>4</sub> in collagen; Wideline nmr; Collagen; D<sub>2</sub>O in collagen; Deuterium nmr; MgCl<sub>2</sub> in collagen; 14026. **SP305-6.**
- Mg<sup>2+</sup>; MgO; Stark spectrum; Surface excitons; Bulk excitons; Electron loss spectroscopy; Ionic crystals; Madelung potential; Mg<sup>2+</sup>; *SP455*, pp. 59-65 (Nov. 1976). **SP305-8.**
- MHD; MHD materials; MHD materials testing; Phase equilibria (MHD); Vaporization (MHD); Viscosity (MHD); Coal slag; Electrical conductivity (MHD); Electrodes; Insulators; *NBSIR 74-543*. **SP305-6.**
- MHD; Phase equilibria; Alkali seeds in MHD; Condensation of K<sub>2</sub>CO<sub>3</sub>; Cs<sub>2</sub>SO<sub>4</sub>; Cs<sub>2</sub>SO<sub>4</sub>-K<sub>2</sub>SO<sub>4</sub>; K<sub>2</sub>CO<sub>3</sub>; K<sub>2</sub>SO<sub>4</sub>; K<sub>2</sub>CO<sub>3</sub>-K<sub>2</sub>SO<sub>4</sub>; 14372. **SP305-6.**
- MHD; Slag; Clean fuel; Coal; Energy; Gas; Gas turbine; 14092. **SP305-6.**
- MHD; Superconductivity; Cryogenics; CTR; Electric power; Energy storage; Generators; Instrumentation; 16465. **SP305-8.**
- MHD; Thermionic emission; Vaporization; Viscosity; Coal slags; 15449. **SP305-7.**
- MHD electrode materials; Optical standards; Safety wheels; Bike regulations; Bomb disarmament; Computer auditing; Energy options; Explosive vapor detectors; Firebug; Impulse generators; *DIM/NBS 60*, No. 7, 1-24 (1976). **SP305-8.**
- MHD electrodes; Mixed ceria; Conductivity; Doped ceria; High temperature; 15057. **SP305-7.**
- MHD materials; MHD materials testing; Phase equilibria (MHD); Vaporization (MHD); Viscosity (MHD); Coal slag; Electrical conductivity (MHD); Electrodes; Insulators; MHD; *NBSIR 74-543*. **SP305-6.**
- MHD materials; Phase equilibrium; Slag; Vaporization; Viscosity; Electrical conductivity; 15510. **SP305-7.**
- MHD materials research; Musical foghorn; Postal automation; Child-proof matches; Hydrogen arc radiometry; Impact of Federal science; *TNB 57*, No. 6, 139-152 (1973). **SP305-5.**
- MHD materials testing; Phase equilibria (MHD); Vaporization (MHD); Viscosity (MHD); Coal slag; Electrical conductivity (MHD); Electrodes; Insulators; MHD; MHD materials; *NBSIR 74-543*. **SP305-6.**
- MHD-power generation; Spinel structure; Durability; Electrical conductivity; High temperature; 15943. **SP305-8.**
- Mica; Microscopy; Neutron dose measurements; Uranium; Fission tracks; Glass; 13173. **SP305-5.**
- Mica detector; Polycarbonate detector; Rapid analysis; Uranium; Coal; Fission track technique; Fly ash; 15457. **SP305-7.**
- Mice; NMR; Spin-lattice relaxation; Spin-spin relaxation; Cancer; *J. Res. 80A* No. 3, 439-450 (1976). **SP305-8.**
- Micelle; Paraffin chain salts; Selected values; Soap; Solubilization; Standard values; Surface active agents; Surface chemistry; Surface tension; Surfactant; Association colloid; Bibliography; CMC; Colloid; Colloidal electrolyte; *NSRDS-NBS36*. **SP305-3.**
- Michaelis constants for NADH and LDH-5; LDH-1; 16493. **SP305-8.**
- MICR printing; Remittance processing; Remittance register; Audit trail; Check endorsement; Check handling; Data entry; Document labeling; Labeling; Listing; Man machine interface; *NBSIR 74-577-1*. **SP305-6.**
- MICR printing; Remittance processing; Remittance register; Audit trail; Check endorsement; Check handling; Data entry; Document labeling; Labeling; Listing; Man machine interface; *NBSIR 74-577-2*. **SP305-6.**
- Micro; Precision; Reactor; Selectivity; Semimicro; Sensitivity; Accuracy; Activation analysis; Element; Generator; 13030. **SP305-4.**
- Micro determination of refractive index; Microscope for accurate determination of refractive index; Multiple prisms; Identification of compounds by refractive index; 15098. **SP305-7.**

Micro space; Redundant cuing; Sensory acuity; Sensory deterioration; Spatial sets; User needs; Age and perception; Complexity; Home range; Life cycle; Life space; Loss continuum; Macro space; Mastery; *SP361, Vol. 1, pp. 57-62. SP305-4.*

Microabsorption effects; Quantitative phase analysis; Quantitative powder diffraction; Reference intensity ratios; Systematic errors in powder diffraction; Calculated powder patterns; *III, 15929. SP305-8.*

Microanalysis; Radiochemistry; Radionuclide identification; Specificactivity threshold; Detection limits; High sensitivity counting; Low-level; Low-level separations; *12887. SP305-4.*

Microamperes; Millivolts; Optical meter relay; Circuit; High voltage; *10251. SP305-1.*

Microanalysis; Electron probe; *11696. SP305-2.*

Microanalysis; Metallurgy; Spectrometry; X-rays; Applications; Electron probe; *11586. SP305-2.*

Microanalysis; Microcell design; Potentiometry; Fluoride activity electrode; Fluoride analysis; Linear null-point potentiometry; *10542. SP305-1.*

Microanalysis; Microscopy; Spectroscopy; X rays; Conference review; Electron probe; *14354. SP305-6.*

Microanalysis; Minerals; Rocks; Analysis; Electron probe; Lunar samples; *11995. SP305-3.*

Microanalysis; Monte Carlo electron trajectory calculations; Scanning electron microscopy; X-ray microanalysis; Electron energy loss; Landau electron deceleration theory; *SP460, pp. 61-96 (Dec. 1976). SP305-8.*

Microanalysis; Multichannel analyzer; Proportional counters; Quantitative analysis; Solid state counters; Tests; X-ray spectra; X-ray spectrometers; Electron diffraction; Electron probes; Evaluation; Gas flow; Lithium; *12251. SP305-3.*

Microanalysis; Non-diffractive x-ray spectra; Optical spectrometry; Platinum analysis; Preconcentration techniques; Spark source mass spectrometry; Spectrochemical analysis; Spectrograph; Standard reference materials; Steel analysis; Target current scanning; *TN502. SP305-2.*

Microanalysis; Nuclear track; Uranium; Activation analysis; Biological material; Fission track; *11266. SP305-2.*

Microanalysis; Optical spectrometry; Pre-concentration techniques; Spectrochemical analysis; Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electron probe; *TN582. SP305-4.*

Microanalysis; Optical spectrometry; Pre-concentration techniques; Spectrochemical analysis; Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electron probe; *TN542. SP305-2.*

Microanalysis; Petrography; Specimen preparation; X-ray analysis; Electron probes; Metallography; *10617. SP305-1.*

Microanalysis; Qualitative analysis; Quantitative analysis; Specimen preparation; X rays; Electron probe microanalyzer; *14897. SP305-7.*

Microanalysis; Quantitative analysis; Standard reference materials; X-ray emission; Alloys; Corrections; Electron probe; Homogeneity; Matrix scanner; *SP260-28. SP305-3.*

Microanalysis; Review; Spectrometry; Atomic absorption spectrometry; Atomic fluorescence spectrometry; Emission spectrometry; Flame photometry; Isotopic analysis; *10581. SP305-1.*

Microanalysis; Scanning electron microscopy; X-ray spectrometry; Cathodoluminescence; Electron backscatter; Electron probe; *10651. SP305-1.*

Microanalysis; Scanning electron microscopy; X rays; Electron microprobe; Ion microprobe; Mass spectrography; *11631. SP305-2.*

Microanalysis; Solvent; Substoichiometric radioisotope dilution; Trace; Zinc; Cadmium; Coulometry; Extraction; *10664. SP305-1.*

Microanalysis; Spark; X-ray spectrometry; Electron microprobe; Emission spectrometry; Laser; Mass spectrometry; *10397. SP305-1.*

Microanalysis; Specimen current; Electron backscatter; Electron probe microanalysis; *10650. SP305-1.*

Microanalysis; Specimen preparation; Crystal spectrometer; Elemental distribution; Elemental identification; Energy dispersive spectrometers; *15247. SP305-7.*

Microanalysis; Spectrometry; X-rays; Analysis; Electron probe; *10979. SP305-2.*

Microanalysis; X-ray measurement; Data reduction; Electron probe; Errors; *13560. SP305-5.*

Microanalysis; X-ray spectrometry; Scanning electron microscopy; Electron backscatter; Cathodoluminescence; Electron probe; *TN728. SP305.*

Microanalysis by x-ray diffraction; Quartz dust; *14224. SP305-6.*

Microanalysis, electron probe; Probe; Characteristics of probe analysis; Electron microanalysis; Electron probe microanalysis; *9777. SP305-1.*

Microanalytical techniques; Solids mass spectrometer; Electron probe microanalyzer; NBS white cast iron sample (SR1175); Stainless steel powder metallurgy compact; Optical metallography; Macroanalytical techniques; Optical emission; *M260-12. SP305.*

Microanalyzer; Particle size; Electron probe microanalysis; *9778. SP305-1.*

Microarchitecture; Patternness; Scanning microscopes; Television microscopes; Analysis of microstructures; Automated image analysis; Gestalt of a material; *12664. SP305-4.*

Microarchitecture; Patternness; Scanning microscopes; Television microscopes; Analysis of microstructures; Automated image analysis; Gestalt of a material; *12702. SP305-4.*

Microbial corrosion; Mild steel; Oxidizing agent; Schreibers; Sulfate-reducing bacteria; Vivianite; Anaerobic corrosion; Cathodic depolarization theory; Charles Thom Award; *Desulfovibrio desulfuricans*; Hollow whiskers; Mechanism; *1523. SP305-7.*

Microbial corrosion; Oxygen concentration cells; Anaerobic corrosion; Cathodic depolarization; Corrosion mechanism; Metabolic products; *10999. SP305-2.*

Microbial corrosion; Prevention; Economics; History; Iron mechanisms; *14781. SP305-7.*

Microbial corrosion; Sulfate-reducing bacteria; Thiobacilli; Underground pipeline corrosion; Anaerobic corrosion; Cathodic depolarization; *Desulfovibrio*; *11000. SP305-2.*

Microbial transformation; Speciation; Volatile metal compounds; Detection; Flameless atomic spectrophotometry; Chromatography; Graphite furnace; Methylation of metals; *16409. SP305-8.*

Microbiological growth; Relative humidity; Salt solutions; Saturated salt; Humidity; Humidity chamber; *NBSIR 75-9. SP305-7.*

Microbiologicals; Organics; Pesticides; Radionuclides; Sampling; Handling; Sampling; Trace elements; Chemical analysis; Environmental samples; Long-term storage; *TN929. SP305-8.*

Microbiology; Microflora shift; Physiology; Psychology; Spore station simulator; Submersible; Closed ecological systems; Habitability; Maintainability prediction; *SP336, pp. 599-6. SP305-3.*

Microbiology; Precision; Proficiency testing; Accuracy; Clinical; '67; Clinical chemistry; Hematology; *13564. SP305-5.*

Microbiology; Proficiency testing; Accuracy; Clinical chemistry; Hematology; Medical usefulness; *13779. SP305-5.*

Microbiology; Sampling; Chemistry; Clinical laboratory capability; Critique; Hematology; *15244. SP305-7.*

Microbiology; Sampling; Chemistry; Clinical laboratory capability; Critique; Hematology; *15273. SP305-7.*

Microbiology, proficiency testing; Accuracy; Clinical chemistry; Hematology; Medical usefulness; *13404. SP305-5.*

Microbridge; Numbering machine; Perfluorostyrene; Shaft position encoder; Staple detector; Superconducting; Synthetic

chemical; Titration; Wind vane; Work positioner; Conductometry; Decoding matrix; Fluoroolefins; Integrator; Magnetic sensing probe; *TN744. SP305-4.*

Microbubbles; Microstandards; NO; SO<sub>2</sub>; Air pollution standards; Calibration mixtures (of gases); *12908. SP305-4.*

Microcalorimeter; NBS microcalorimetry; Testing of microcalorimeter; Clinical chemistry; Clinical microcalorimetry; *NBSIR 73-180. SP305-6.*

Microcalorimeter; Thermochemistry; Biopolymer transitions; Calorimetry; Chemical instrumentation; Dipalmitoyl L- $\alpha$ -lecithin; *14573. SP305-6.*

Microcalorimetry; Thermochemistry; Analytical chemistry; Bacterial identification; Biochemistry; Cellular processes; Clinical chemistry; Enzyme activity; Immunochemistry; Medical instrumentation; *13961. SP305-6.*

Microcalorimetric; Thermochemistry; Analysis; Clinical chemistry; Glucose; *15319. SP305-7.*

Microcalorimetry; Arabacia punctulata; Calorimetry; Cleavage of cells; Development of cells; Fertilization; Growth of cells; Heat production; Marine eggs; Metabolism; *15151. SP305-7.*

Microcalorimetry; Molecular biology; Pharmacology; Protein calorimetry; Polynucleotide calorimetry; Purity assay; Reaction coupling; Thermodynamics; Warfarin; Adenosinetriphosphate-thermodynamics; Chemical bond energy; Coiled helix thermolyses; *13730. SP305-5.*

Microcalorimetry; Ni-63 neutron capture cross-section; Radioactivity standards; Half-life; Mass-spectrometry; *12567. SP305-4.*

Microcalorimetry; Quartz, standard reference materials; Standard reference material for calorimetry; Calorimetry, flow; Calorimetry, solution; Chlorine monofluoride; Fluorine dissociation; Hydrofluoric acid solution calorimetry; *13280. SP305-5.*

Microcalorimetry; Serum thermochemistry of enzyme processes; Analysis; Assay in serum; Bacterial growth calorimetry; Enzyme catalyzed processes; Glucose; *14898. SP305-7.*

Microcalorimetry; Thermochemistry; Thermodynamics; Adenosine-5'-triphosphate; Biochemistry; Enzyme catalyzed reactions; Glucose; Heat measurements; *hexokinase*; Metabolic processes; *15174. SP305-7.*

Microcalorimetry; Thermochemistry; Thermodynamics; Adenosine 5'-triphosphate; Biochemistry; Coupled equilibrium; Enzyme catalyzed reactions; Glucose; Heat measurement; *Hexokinase*; Magnesium; Metabolic processes; *16385. SP305-8.*

Microcalorimetry; Tritium standards; Gas counting; *14801. SP305-7.*

Microcalorimetry of biological processes; Standard reference materials for calorimetry; Thermochemistry; Thermodynamic data; Calorimetry; *13980. SP305-6.*

Microcell design; Potentiometry; Fluoride activity electrode; Fluoride analysis; Linear null-point potentiometry; Microanalysis; *10542. SP305-1.*

Microchemical analysis; Microscopic analysis; Polarographic analysis; Specific ion electrodes; Coulometric analysis; Gas analysis; Methods of chemical analysis; *TN455. SP305-1.*

Microchemical analysis; Microscopic analysis; Polarographic analysis; Chemical analysis; Coulometric analysis; Gas analysis; Ionic equilibria; Ion-selective electrodes; *TN505. SP305-1.*

Microchemical analysis; Microscopic analysis; Polarographic analysis; Air pollutant analysis; Chemical analysis; Gas analysis; *TN545. SP305-2.*

Microchemical analysis; Nitrogen dioxide; Ozone; Particulate analysis; Sulfur dioxide; Air pollution analysis; Carbon monoxide; Fire research; *TN585. SP305-4.*

Microchemical analysis; Null-point potentiometry; Polarographic analysis; Standard reference materials, analysis; Coulometric analysis; Gas analysis; Mass spectrometric gas analysis; *TN425. SP305.*

Microchemical analysis; Polarographic analysis; Standard reference materials, analysis of; Stoichiometry; Atomic weights; Coulometric analysis; Gas analysis; Mass spectrometric gas analysis; *TN403. SP305.*

Microchemical analysis; Potentiometry; Specific ion electrode; Electrochemical analysis; Fluoride, analysis for; Fluoride electrode; *10222. SP305-1.*

Microcircuits; Silicon; Device fabrication; Environmental testing; Integrated circuits; Measurement methods; *SP336. pp. 449-455. SP305-3.*

Microcomputers; Minicomputers; Networks; Standards; *15643. SP305-7.*

Microcontacts; Silicon; Spreading resistance; Steel probe; Topography; Bevel; Interferometer; Jig; *SP400-10. pp. 99-108. SP305-6.*

Microcopier; Microfilm duplicator; Reader-printer; Selective copier; Information retrieval device; *TN516. SP305-2.*

Microcopy resolution charts; National Measurement System; Photographic density; Technology assessment; Imaging optics; Lens testing; *NBSIR 75-942. SP305-8.*

Microcracking; Acoustic emission; Alumina; Crack propagation; Failure prediction; *14577. SP305-6.*

Microcracking; Moiré patterns; Brittle solids; Dislocation networks; Electron microscopy; Healing; Indentations; *15400. SP305-7.*

Microcracking; Moiré patterns; Brittle solids; Dislocation networks; Electron microscopy; Healing; Indentations; *NBSIR 75-658. SP305-7.*

Microcracks; Microfibrils; Radicals; Bond rupture; Chain rupture; ESR; Fibrils; Load-elongation curve; *15555. SP305-7.*

Microcracks; Shear stress; Torsion; Aluminum alloy; Bending; Fatigue strength; *10735. SP305-1.*

Microdensitometer; Coherence; *12681. SP305-4.*

Microdensitometer; Radiochromic dye films; Spectral transmission density; Densitometer; *J75C No. 1, 23-27 (1971). SP305-3.*

Microdensitometry; Diffuse density measurement; Linear microdensitometer; *12362. SP305-3.*

Microdensitometry; Microphotometry; Optical density; *15377. SP305-7.*

Microdensitometry; Microscopy resolution charts; National Measurement System; Densitometry; Lens evaluation; *15394. SP305-7.*

Microdensitometry; Optical imaging; Partial coherence; Coherence measurement; *14545. SP305-6.*

Microdensitometry; Optical imaging; Partial coherence; Coherence measurement; *15290. SP305-7.*

Microdensitometry; Optics; Partial coherence; Linear optical systems; *14500. SP305-6.*

Microdensitometry; Optics; Slit imagery; Transfer function; Impulse response; Linear microdensitometry; *15326. SP305-7.*

Microdensitometry; Photographic edges; Transfer function; Acutance; Calibration; Computer programs; *NBSIR 75-699. SP305-7.*

Microdensitometry; Spectrophotometry; Thin films; Dose distribution; Dosimetry; Electron beams; *12945. SP305-4.*

Microdetermination of silver; Potentiometry; Silver; Linear null-point potentiometry; *10543. SP305-1.*

Microdiffraction; Scanning electron microscopy; Strain analysis; X ray; Channelling of electrons; Crystal orientation; Kossel; Lattice spacing determination; *14913. SP305-7.*

Microdosimetric; Stopping power; Track structure; Delta-ray; Electron; Energy deposition; Event-size spectra; *12631. SP305-4.*

Microdosimetric parameters; Nuclear data; Slowing-down spectra; Energy deposition spectra; Fast neutrons; Initial spectra; *15950. SP305-8.*

- Microdosimetry; Monte Carlo; Multiple scattering; Transport calculations; Electrons; Energy deposition; *11719. SP305-2.*
- Microdosimetry; Neutron dosimetry; Neutron energy deposition; Fluence; Kerma; Kerma factors; *15407. SP305-7.*
- Microdosimetry; Neutron interaction with tissue; Secondary particle spectra; Energy deposition; *13217. SP305-5.*
- Microdosimetry; Thermographic imaging; Depth dose; Dose distributions; Dosimetry; Dyes; Electron beams; Films; Gamma rays; *11551. SP305-2.*
- Microdosimetry; Transport theory; Wall effects; Absorbed dose distributions; Electrons, delta rays and beta particles; Event-size; *14703. SP305-6.*
- Microeconomics; Pricing; Administration of computing; Computer services; Management; *15131. SP305-7.*
- Microelectrode; Potentiometry; Fluoride analysis; Fluoride microanalysis; Fluoride microelectrode; Ion-selective microelectrode; *11577. SP305-2.*
- Microelectrodes; Electrode response in biological fluids; Electrodes; Ion-selective electrodes; *14803. SP305-7.*
- Microelectronic; Thermocompression bonds; Ultrasonic bonds; Bonds (wire); Failure modes; Metallurgical failure modes; *15431. SP305-7.*
- Microelectronic devices; Scanning electron microscopy; Electron beam damage; Electron beam energy deposition; Ionizing radiation; *15963. SP305-8.*
- Microelectronic interconnections; Spider bonding; Ultrasonic bonding; Wire bonding; Capacitor microphone; Flip-chip; Magnetic pickup; *TN573. SP305-3.*
- Microelectronic materials; Rutherford backscattering; Secondary ion mass spectroscopy; Silicon; Silicon dioxide; Surface analysis; X-ray photoelectron spectroscopy; Auger electron spectroscopy; Depth impurity profiling; Ion implantation; Ion sputtering; *15739. SP305-8.*
- Microelectronic test patterns; Integrated circuits; *SP400-6. SP305-6.*
- Microelectronics; Micrometrology; MOS devices; Oxide films; Photomasks; Photoresist; Resistivity; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; *SP400-8. SP305-7.*
- Microelectronics; Micrometrology; MOS devices; Oxide films; Resistivity; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; *SP400-12. SP305-7.*
- Microelectronics; Micrometrology; MOS devices; Oxide films; Photomask inspection; Resistivity; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; *SP400-17. SP305-7.*
- Microelectronics; Micrometrology; Photolithography; Photomask; Semiconductor technology; Integrated circuits; *SP400-20. SP305-7.*
- Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN702. SP305-3.*
- Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN560. SP305-3.*
- Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN571. SP305-3.*
- Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN592. SP305-3.*
- Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN598. SP305-3.*
- Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; microphone; Wire bonds; *TN520. SP305-2.*
- Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor materials; Semiconductor process control; Silicon thermal resistance; Thermographic measurements; Ultrasonic bonds; Wire bonds; *TN527. SP305-2.*
- Microelectronics; Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonds; Wire bonds; *TN555. SP305-2.*
- Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Recombination centers; Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN734. SP305-5.*
- Microelectronics; Microwave diodes; Probing techniques (a-c); Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; *TN773. SP305-5.*
- Microelectronics; Microwave diodes; Probing techniques (a-c); Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; *TN788. SP305-5.*
- Microelectronics; Microwave diodes; Mobility; Pull test; Recombination centers; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; *TN806. SP305-5.*
- Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN717. SP305-4.*
- Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN727. SP305-4.*
- Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN733. SP305-4.*



- Microelectronics; Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Recombination centers; Resistivity; Ribbon-wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; *TN743. SP305-4.*
- Microelectronics; Microwave diodes; Mobility; MOS devices; Oxide films; Photomasks; Photoresist; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; *SP400-1. SP305-6.*
- Microelectronics; Microwave diodes; Mobility; MOS devices; Oxide films; Photomasks; Photoresist; Platinum wire resistivity; Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; *SP400-4. SP305-6.*
- Microelectronics; Moisture infusion; Optical flying-spot scanner; Oxide films; Passivation overcoats; Photomask metrology; Pull test; Resistivity; Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; *SP400-19. SP305-8.*
- Microelectronics; Moisture infusion; Optical flying-spot scanner; Passivation overcoats; Photoresist; Pull test; Resistivity; Scanning acoustic microscope; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; *SP400-25. SP305-8.*
- Microelectronics; Monolithic microcircuits; Reliability; Semiconductor devices; Silicon; Test methods; *10858. SP305-1.*
- Microelectronics; MOS capacitors; *n-p-n* transistor fabrication; *p-n* junctions; Resistivity; Semiconductor electronics; Sheet resistors; Silicon; Test pattern; Test structures; Dopant density; *SP400-22. SP305-8.*
- Microelectronics; MOS capacitor; *p-n* junctions; Semiconductors; Silicon; Thermally stimulated capacitance; Thermally stimulated current; Cryostat; Defects; Gold-doped silicon; Measurement methods; *SP400-26. SP305-8.*
- Microelectronics; MOS devices; Process control; Reliability; Semiconductor devices; Surgical implants; Cardiac pacemaker; Data banks; Failure analysis; Failure modes; Hermeticity; Hybrid devices; Leak testing; Measurement technology; *SP400-28. SP305-8.*
- Microelectronics; Nondestructive bond pull test; Position of hook; Pull rate; Pull strength; Resolution-of-forces; Semiconductor devices; Ultrasonic bonding; Wire bond; Bond angle; Bonding; Bond pull test; Bond-to-bond spacing; Large wire; Loop height; *SP400-18. SP305-8.*
- Microelectronics; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; *TN488. SP305-1.*
- Microelectronics; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; *TN495. SP305-1.*
- Microelectronics; Optical microscope; Photomasks; Scanning electron microscope; Dimensional metrology; Integrated circuits; Line-width measurements; *15864. SP305-8.*
- Microelectronics; Oxides; Photolithography; Process control; Reliability; Semiconductor devices; Silicon; Wire bonding; Die bonding; Hermeticity; Integrated circuits; Measurement methods; *SP400-3. SP305-6.*
- Microelectronics; Parameter control; Process uniformity; Random faults; Reliability; Test patterns; TTL; Vendor qualification; Circuit procurement; Component screening; Custom circuits; LSI; *16620. SP305-8.*
- Microelectronics; *p-n* junctions; Scanning electron microscopy; Semiconductor devices; Device inspection; Electron-beam-induced current; *16449. SP305-8.*
- Microelectronics; Process control; Reliability; Semiconductor; Automation; Integrated circuits; Measurements; *16116. SP305-8.*
- Microelectronics; Process control; Reliability; Semiconductors; Silicon; Test patterns; Data acquisition; Data display; Integrated circuits; Measurement technology; *SP 400-15. SP305-8.*
- Microelectronics; Radioisotope test; Seals; Semiconductor devices; Weight test; Bubble test; Gas analysis; Helium leak test; Hermeticity; Integrated circuits; Measurement methods; *SP400-9. SP305-6.*
- Microelectronics; Reliability; Semiconductor devices; Testing (wire bond); Wire bond; Bonding; Electrical connection; Failure (wire bond); Integrated circuits; *TN786. SP305-5.*
- Microelectronics; Reliability; Semiconductor devices; Survey (wire bond); Testing (wire bond); Thermocompression bonding; Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; *TN726. SP305-4.*
- Microelectronics; Reliability; Semiconductor devices; Wire bond; Electrical connection; Failure analysis; Intermetallic compounds; Kirkendall voids; *14525. SP305-6.*
- Microelectronics; Reliability; Semiconductor devices; Testing (wire bond); Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; *SP400-2. SP305-6.*
- Microelectronics; Reliability; Testing (wire-bond); Wire-bond; Bibliography; Degradation (wire-bond); Discrete devices; Electrical interconnection; Fabrication (wire-bond); Failure (wire-bond); Hybrid circuits; Integrated circuits; *TN593. SP305-4.*
- Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal properties; Wire bonds; Carrier lifetime; Electrical properties; Germanium; Methods of measurement; *TN472. SP305-1.*
- Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Germanium; *TN475. SP305-1.*
- Microelectronics; Ribbon wire; Round wire; Testing (wire bond); Ultrasonic bonding; Wire bond; Aluminum wire; Bonding; Fabrication (wire bonds); *TN767. SP305-5.*
- Microelectronics; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; ASTM standards; Integrated circuits; *11869. SP305-3.*
- Microelectronics; Ultrasonic bonding; Wire bonding; Aluminum; *13022. SP305-4.*
- Microencapsulated coated fuel particles; Computer modeling on a microscale; Elastoplastic micropressure vessels; Failure predictability through small size; *SP452, pp. 31-42 (Sept. 1976). SP305-8.*
- Microfibrillar structure; Radical formation; Tie molecules; Chain rupture; Crystalline polymer; ESR investigation of radicals; Fibrous structure; Mechanical breakdown; *15476. SP305-7.*
- Microfibrils; Radicals; Bond rupture; Chain rupture; ESR; Fibrils; Load-elongation curve; Microcracks; *15555. SP305-7.*
- Microfiche; Overseas; Microfilm; Libraries; *14529. SP305-6.*
- Microfield; Plasma; Time-average; Distribution; Holtsmark; Ion dynamics; *13466. SP305-5.*
- Microfield; Plasma; Time-dependent microfield; Cluster expansion; Collective-coordinates; Distribution; Ion correlations; *14473. SP305-6.*



- Microfilm; Libraries; Microfiche; Overseas; 14529. **SP305-6.**  
 Microfilm; Microfilm image stability; Aging blemishes; Blemishes, microfilm; Film storage; 13520. **SP305-5.**  
 Microfilm; Microfilm storage cartons; Permanent record film; Peroxides; Archival record film; Blemishes due to aging; Colloidal silver; *J72A No. 3, 251-259 (1968)*. **SP305-1.**  
 Microfilm; Microfilm storage cartons; Permanent record film; Peroxides; Redox blemishes; Zinc powder; Archival record film; *J74A No. 1, 31-36 (1970)*. **SP305-2.**  
 Microfilm; Microform; State-of-the-art study; Automatic data processing; Building codes; Building regulations; Computer applications; Computers; Enforcement; Evaluation; Information systems; *NBS-GCR-74-26*. **SP305-8.**  
 Microfilm; Microforms; Micrographics; Computer output microforms; Information storage and retrieval; Libraries; 16038. **SP305-8.**  
 Microfilm; Permanent record film; Archival film; Hypo; *J75C No. 1, 19-22 (1971)*. **SP305-3.**  
 Microfilm; Photocomposition; Photon; Programming; Text editing; Character generation; Composition language; Computer technology; Computerized text processing; Electronic composition; Electronic computer; Electronic printing; GRACE; Linotron; *SP295*. **SP305-1.**  
 Microfilm; Redox blemishes; Archival records; 13523. **SP305-5.**  
 Microfilm blemishes; Microscopic spots; Redox blemishes; Aging blemishes; Archival records; Blemishes; *J73A No. 1, 79-97 (1969)*. **SP305-1.**  
 Microfilm duplicator; Reader-printer; Selective copier; Information retrieval device; Microcopier; *TN516*. **SP305-2.**  
 Microfilm image stability; Aging blemishes; Blemishes, microfilm; Film storage; Microfilm; 13520. **SP305-5.**  
 Microfilm storage cartons; Permanent record film; Peroxides; Archival record film; Blemishes due to aging; Colloidal silver; Microfilm; *J72A No. 3, 251-259 (1968)*. **SP305-1.**  
 Microfilm storage cartons; Permanent record film; Peroxides; Redox blemishes; Zinc powder; Archival record film; Microfilm; *J74A No. 1, 31-36 (1970)*. **SP305-2.**  
 Micro-flash technique; Observation of chips during grinding; Steatite; Alumina; Brittle fracture; Chip removal process; Forsterite; Glass-ceramics; Grinding of ceramics; *SP348*, pp. 37-43. **SP305-4.**  
 Microflora shift; Physiology; Psychology; Space station simulator; Submersible; Closed ecological system; Habitability; Maintainability prediction; Microbiology; *SP336*, pp. 599-621. **SP305-3.**  
 Microfocus tubes; Microradiography; Nylon; Polyacrylonitrile; Polyamides; Reflection of x-rays; Soft x-rays; X-rays; Fibers; 9488. **SP305.**  
 Microform; State-of-the-art study; Automatic data processing; Building codes; Building regulations; Computer applications; Computers; Enforcement; Evaluation; Information systems; Microfilm; *NBS-GCR-74-26*. **SP305-8.**  
 Microform-microfilm systems; Document storage and retrieval; 11938. **SP305-3.**  
 Microforms; Micrographics; Computer output microforms; Information storage and retrieval; Libraries; Microfilm; 16038. **SP305-8.**  
 Microforms; Multiple-access systems; On-line systems; Output modes; Photocomposition and typesetting; Storage hierarchies; Time sharing; Computer-assisted-instruction; Information display; Information recording; Machine-aided design; *Monogr. 113, Volume 2*. **SP305-2.**  
 Microforms; Transparent electrophotographic material; Add-on films; Information storage; *NBSIR 76-991*. **SP305-8.**  
 Micrographic analysis; Pictorial analysis; Quantitative microscopy; Size distribution; Computer analysis of micrographs; Grain size; 11238. **SP305-2.**  
 Micrographics; Computer output microforms; Information storage and retrieval; Libraries; Microfilm; Microforms; 16038. **SP305-8.**  
 Microgravity; Purification; Space processing; Convection; Crystal growth; Crystal perfection; *NBSIR 76-980*. **SP305-8.**  
 Microhardness; Plastic deformation; Slip; Transmission electron microscopy; Twinning; Aluminum oxide; 15825. **SP305-8.**  
 Microhardness; Rare-earth borides; Borides; Lattice constants; LnB<sub>6</sub> compounds; Melting temperatures; *SP364*, pp. 597-604. **SP305-4.**  
 Microheterogeneities; Na<sub>2</sub>O-B<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>; SiO<sub>2</sub>-B<sub>2</sub>O<sub>3</sub>-Na<sub>2</sub>O; B<sub>2</sub>O<sub>3</sub>-Na<sub>2</sub>O-SiO<sub>2</sub>; Glass; Immiscibility; Melts; 11585. **SP305-2.**  
 Microheterogeneous glass; Spinoidal decomposition theory; Connectivity of microphases; Fluctuation theory; Glass; Intersecting growth theory; 10970. **SP305-2.**  
 Microirregularities; Overcoating; Plasmons; Scatter; Absorption; Dielectric layers; Irregularities; Metallic thin films; *J. Res. 80A No. 4, 643-658 (1976)*. **SP305-8.**  
 Micromachining; Optical figure; Scattered light; Diamond turning; Laser damage; Metal mirrors; *SP435*, pp. 49-56 (Apr. 1976). **SP305-8.**  
 Micromanometer; Stable pressure generation; Vacuum measurements; Calibration; Capacitance-diaphragm gauge; Medium vacuum range; 11442. **SP305-2.**  
 Micromanometers; Piston gages; Pressure measurement; Vane gages; Vapor pressure measurement; Calibration techniques; Capacitance pressure gages; Gas column manometers; Manometers; Meteorographs; *Monogr. 114*. **SP305-2.**  
 Micromanometry; Quartz Bourdon gauge; Static expansion; Thermal transpiration; Vapor-stream pumping; Viscosity gauge; Capacitance-diaphragm gauge; Knudsen radiometer; McLeod gauge; 14933. **SP305-7.**  
 Micromanometry; Silicone; Diffusion pump fluid; 13539. **SP305-5.**  
 Micrometeoroid; Particle detectors; Hypervelocity; Impact damage; *SP336*, pp. 915-933. **SP305-3.**  
 Micrometer; Oil; U-tube; Vacuum measurement; Water; Manometers; Mercury; 9413. **SP305.**  
 Micrometer; Precise; Sensitive; Contour; Displacement; Distance; Distance-measurement; Field emission; Instrument; Measurement; 10141. **SP305-1.**  
 Micrometer; U-tube; Vacuum; Medium-vacuum measurements; Manometer; *TN420*. **SP305.**  
 Micrometer cell; Thin layer electrochemistry; Vanadium; Automatic titrations; Coulometric titrations; Current integration; Digital timing; Epinephrine; Linear sweep voltammetry; Manganese; *SP422*, pp. 861-869 (Aug. 1976). **SP305-8.**  
 Micrometers; Microscopes; Optical equipment; Optical microscopes; Thickness; Thickness gages; Metal coatings; 12215. **SP305-3.**  
 Micrometrolgy; MOS devices; Oxide films; Photomasks; Photoresist; Resistivity; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; *SP400-8*. **SP305-7.**  
 Micrometrolgy; MOS devices; Oxide films; Resistivity; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; *SP400-12*. **SP305-7.**  
 Micrometrolgy; MOS devices; Oxide films; Photomask inspection; Resistivity; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; *SP400-17*. **SP305-7.**  
 Micrometrolgy; Photolithography; Photomask; Semiconductor technology; Integrated circuits; Microelectronics; *SP400-20*. **SP305-7.**

- Micrometrology; Profile; Surface; Surface instrumentation; Surface metrology; Topography; Tunneling; Diffraction grating; Field emission; *12919*. SP305-4.
- Microminiature; Model; Planar; Propagation function; Pulse; Receiving end; Skin effect; Step response; Time domain; Voltage divider; Asymptotic expansion; Characteristic impedance; Coaxial line; Complimentary error function; Conductor; Cylindrical; Dielectric; Error; Generator; *14347*. SP305-6.
- Micromorphic dislocations; Micropolar dislocations; Continuum mechanics; Dislocation distributions; *SP317*, pp. 1023-1040. SP305-3.
- Micron; Overgrade; Sedimentation; Sieve; Standard sieve; Abrasive grain; Accumulation curve; Coated abrasive products; Grain, abrasive; *PS8-67*. SP305.
- Microorganisms; Optical properties; Planetary quarantine; Polymers; Shock force; Space simulation; Testing; Volatile products; Absorption; Condensation; Contamination control; Evaluation; Far infrared; Fluid dynamic force; *SP336*, pp. 51-77. SP305-3.
- Microphase separation; Phase diagrams of metastable immiscibility; Spinodal; Structural interpretation of immiscibility; Super-duty silica brick; Glass chromatography; Immiscibility and courses of crystallization; Immiscibility and practical applications; *11902*. SP305-3.
- Microphone calibration standards; Calibration of microphones; *11023*. SP305-2.
- Microphones; Psychoacoustics; Reverberation room; Sound level meters; Audiometric standards; Building acoustics; Community noise; Earphones; Environmental noise; Instrumentation; Measurement methodologies; *15502*. SP305-7.
- Microphones; Receiver; Tape recorder; Telephone; Transmitter; Wiretapping; Body worn antenna; Bugging; Eavesdropping; Electronic surveillance; *16237*. SP305-8.
- Microphones; Reciprocity; Sensitivity; Temperature; Calibration; Ceramic; Condenser; Electret; Humidity; *NBS17 76-1090*. SP305-8.
- Microphones; Sound level meters; Statistical control processes; Temperature; Acoustic calibrators; A-weighting; Barometric pressure; Crest factor; Ground cover; Humidity; Instrumentation; *TN931*. SP305-8.
- Microphones; Sound waves; Auroral; Infrasound; Ionosphere; *13231*. SP305-5.
- Microphones; Standard; Calibration; *9342*. SP305.
- Microphoto; Microprinting; Printing; Systems; Clearinghouse for Federal Scientific and Technical Information; *10177*. SP305-1.
- Microphotometer; Optical spectrometry; Plasma torch; Platinum analysis; Preconcentration; Selenium analysis; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Sulfur analysis; Time-shared computer; *TN422*. SP305-1.
- Microphotometer; Particulate deposits; Laser; Membrane filters; *15966*. SP305-8.
- Microphotometers; Spectrochemical analysis; Television cameras; Automation; Computers; Data acquisition; Emission spectroscopy; *11756*. SP305-2.
- Microphotometry; Optical density; Microdensitometry; *15377*. SP305-7.
- Microphotometry; Photographic emulsion; Photographic photometry; Programs; Spectrochemical analysis; Computers; *11385*. SP305-2.
- Microphotometry; Photographic emulsion; Photographic photometry; Photometry; Programs; Spectrochemical analysis; Computers; Emulsion; *11510*. SP305-2.
- Microplasticity; Strain measurement; Temperature changes in tensile specimens; 4340 steel; Capacitance gages; Invar; Loading rate; *11738*. SP305-2.
- Micropolar dislocations; Continuum mechanics; Dislocation distributions; Micromorphic dislocations; *SP317*, pp. 1023-1040. SP305-3.
- Microprinting; Printing; Systems; Clearinghouse for Federal Scientific and Technical Information; Microphoto; *10177*. SP305-1.
- Microprobe absorption correction comparisons; Microprobe experimental conditions; Quantitative microanalysis; Absorption of x-rays; Al-Mg analysis; Electron microprobe; Errors in microanalysis; *10452*. SP305-1.
- Microprobe analysis; Atomic number correction; Bethe's Law; Electron backscatter; Error propagation; Mean ionization potential; *11632*. SP305-2.
- Microprobe analysis; NBS standards; Powder metallurgy; Tungsten-molybdenum alloys; Homogeneity testing; Metallography; *11483*. SP305-2.
- Microprobe analysis; Quantitation; Soft tissue; Biological analysis; Electron probe; Ion probe; *14236*. SP305-6.
- Microprobe analysis; Quantitative analysis; Absorption of x-rays fluorescence; Atomic number effects; Error propagation; *11587*. SP305-2.
- Microprobe analysis; Spectrometric analysis; Standard Reference Materials; Fe-3Si alloy; Homogeneity testing; Metallography; *SP260-22*. SP305-3.
- Microprobe experimental conditions; Quantitative microanalysis; Absorption of x-rays; Al-Mg analysis; Electron microprobe; Errors in microanalysis; Microprobe absorption correction comparisons; *10452*. SP305-1.
- Microprobe grid scanner; Optical spectrometry; Plasma torch; Platinum analysis; Preconcentration; Silicon detector; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Time-shared computer; X-ray absorption coefficients; *TN452*. SP305-1.
- Microprocessor; Satellite; Time; Time code; Clock; *TN681*. SP305-8.
- Micropublishing; Photocomposition; Printing; Computertypesetting; Cost studies or economic feasibility; Estimating complex keyboarding; *10637*. SP305-1.
- Microradiography; Nylon; Polyacrylonitrile; Polyamides; Reflection of x-rays; Soft x-rays; X-rays; Fibers; Microfocus tubes; *9488*. SP305.
- Micro-Raman; Particle analysis; Particulates; Raman spectroscopy; Fine particles; Laser Raman; *15362*. SP305-7.
- Microroughness; Optical figure; Scattered light; Infrared absorption; Laser damage; Laser mirror; Laser optical train; Laser window; *SP414*, pp. 23-30. SP305-6.
- Microsample; Lead; Mass spectrometer; *14232*. SP305-4.
- Microsamples; A scan; Derivative mode; Design; Detection limits; Flame emission spectrometry; Interferences; Matrix; *11560*. SP305-2.
- Microscope; Field electron microscope; Field emission; *10585*. SP305-1.
- Microscope; Microspectrophotometry; Pattern recognition; Biological structure; Biomedical instrumentation; Computer; Image processing; *11834*. SP305-3.
- Microscope; Microspectrophotometry; Pattern recognition; Computers; Digital logic; Image processing; *11990*. SP305-3.
- Microscope; Microtopography; Single-crystal surface; Surface; Surface finish; Surface profile; *12837*. SP305-4.
- Microscope; Microtopography; Single-crystal surface; Surface; Surface finish; Surface profile; *14523*. SP305-6.
- Microscope; Neutron activation analysis; Nitrogen; Orchard leaves; Proton tracks; Standard reference materials; Bovine liver, cellulose nitrate; Image analyzing system; *14705*. SP305-6.
- Microscope; Non-contact sensing; Optical surface probe; Surface detection; Dimensional metrology; Displacement measurement; *13617*. SP305-5.

- Microscope; Noncontact sensing; Optical surface probe; Surface detection; Dimensional metrology; Displacement measurement; 12423. SP305-4.
- Microscope; Nuclear track technique; Standard reference material; Alpha tracks; Biological material; Image analyzing system; Lithium; 14244. SP305-6.
- Microscope for accurate determination of refractive index; Multiple prisms; Identification of compounds by refractive index; Micro determination of refractive index; 15098. SP305-7.
- Microscope stages; Rock-forming minerals; Specimen preparation; Electron microscopy; *in situ* experiments; Ionic bombardment; 15895. SP305-8.
- Microscopes; Microstructure; Particle distribution; Phase mapping; Quality control; Scanning; Television systems; Variability; Variance (statistics); Aggregates; Anisotropy; Automation; Computers; Mechanical properties; 12935. SP305-4.
- Microscopes; Optical equipment; Optical microscopes; Thickness; Thickness gages; Metal coatings; Micrometers; 12215. SP305-3.
- Microscopic analysis; Polarographic analysis; Specific ion electrodes; Coulometric analysis; Gas analysis; Methods of chemical analysis; Microchemical analysis; TN455. SP305-1.
- Microscopic analysis; Polarographic analysis; Chemical analysis; Coulometric analysis; Gas analysis; Ionic equilibria; Ion-selective electrodes; Microchemical analysis; TN505. SP305-1.
- Microscopic analysis; Polarographic analysis; Air pollutant analysis; Chemical analysis; Gas analysis; Microchemical analysis; TN545. SP305-2.
- Microscopic chemical reactions; Negative ions; Ion chemistry; Mesospheric electron concentrations; 10388. SP305-1.
- Microscopic size measurement particle size measurement; Air elutriation; Air permeability; Andreasen pipette; Calibrated glass beads; Coulter counter; Electroformed sieves; 11895. SP305-3.
- Microscopic spots; Redox blemishes; Aging blemishes; Archival records; Blemishes; Microfilm blemishes; J73A No. 1, 79-97 (1969). SP305-1.
- Microscopic determination; Optical properties; Wavelength; Crystal; 10047. SP305-1.
- Microscopy; Neutron activation analysis; Nitrogen; Nuclear track technique; Orchard leaves; Steels; Track etch method; Uranium; Boron; Glasses; Image analyzing system; Liver; 12688. SP305-4.
- Microscopy; Neutron dose measurements; Uranium; Fission tracks; Glass; Mica; 13173. SP305-5.
- Microscopy; Optical coatings; Thin film stress; Laser damage; Inhomogeneous films; SP372, pp. 135-164. SP305-4.
- Microscopy; Optical constants; Oxidation; Surface characterization; Ellipsometry; Field-emission; Low-energy-electron diffraction; 11397. SP305-2.
- Microscopy; Pattern recognition; Reconstruction; Scattering; Tissue characterization; Tissue parameters, tissue signature; Tumor; Ultrasonic spectroscopy; Ultrasound; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; Medical diagnosis; SP453. SP305-8.
- Microscopy; Photogrammetry; Evaluation; Measurement; Metallography; Metallurgical analysis; 11977. SP305-3.
- Microscopy; Polarized electromagnetic radiation; Color photography; Electron microscopy; Electron probes; Evaluation; Metallography; 11994. SP305-3.
- Microscopy; Polyethylene; Surface free energy; Crystallization; Homogeneous nucleation; Kinetics; 9752. SP305-1.
- Microscopy; Quantitative data scanning; Concentration mapping; Electron probe microanalysis; Experiment design; Inclusion analysis; 11207. SP305-2.
- Microscopy; Spectrophotometry; Cytochemistry; Histochemistry; Image processing; Laboratory automation; 12722. SP305-4.
- Microscopy; Spectroscopy; X rays; Conference review; Electron probe; Microanalysis; 14354. SP305-6.
- Microscopy; Surfaces; Cracks; Flaws; Ion beam milling; Metals; TN862. SP305-7.
- Microscopy; Thickness determination of coatings; Coating thickness; Measurement of coating thickness; Metallography; 13141. SP305-5.
- Microscopy resolution charts; National Measurement System; Densitometry; Lens evaluation; Microdensitometry; 15394. SP305-7.
- Microsegregation; Resistivity characterization; Silicon; Spreading resistance; Crystal growth; Czochralski; Fourier transform; SP400-10, pp. 191-199. SP305-6.
- Microsegregation; Sampling; Surface contamination; High purity metals; Inhomogeneity; SP422, pp. 747-755 (Aug. 1976). SP305-8.
- Microspectrofluorimetry; Uranyl ions; Europium ions; Fluorescence; Fluorescence standards; Inorganic ion-doped fibers; 15321. SP305-7.
- Microspectrophotometry; Pattern recognition; Biological structure; Biomedical instrumentation; Computer; Image processing; Microscope; 11834. SP305-3.
- Microspectrophotometry; Pattern recognition; Computers; Digital logic; Image processing; Microscope; 11990. SP305-3.
- Microspheres; Polyurethane foam; Cryogenic insulation; Insulation; LOX dewars; 13418. SP305-5.
- Microstandards; Nanogram; Ion exchange; 11536. SP305-2.
- Microstandards; NO; SO<sub>2</sub>; Air pollution standards; Calibration mixtures (of gases); Microbubbles; 12908. SP305-4.
- Microstandards; Particulate matter; Reagents; Resin structure Ultra-pure reagents; Urea; Uric acid; Analytical distillation Clinical standards; Crystallization; Divinylbenzene; EDTA ion exchange resins; TN459. SP305-1.
- Microstandards; Standards; Analytical detection limits; Ion exchange resins; Measurements; 10640. SP305-1.
- Microstandards; Standards; Analytical detection limits; Ion exchange resins; Measurements; 10948. SP305-2.
- Microstrip; Quality factor; Transmission coefficient; Coherent radiation; Josephson junction; 14919. SP305-7.
- Microstripline; Microwave coupling; SQUID; Superconducting switch; Tunnel junction; Voltage standard; Cryogenic resistor; Current comparator; Josephson device; 15596. SP305-7.
- Microstripline-coupling; Thin-film device; Frequency source Josephson radiation; Josephson tunnel junction; Junction array; 15599. SP305-7.
- Microstriplines; Microwave filters; Voltage standard; Arrays Josephson junctions; 14941. SP305-7.
- Microstructural analysis; Tissue; Ultrasound; Velocity; Acoustic imaging; Acoustic microscopy; Attenuation; Frequency dependence; Impedance; SP453, pp. 261-267 (Oct. 1976). SP305-8.
- Microstructural effects on mechanical failure; Continuum cracks; Continuum mechanics; Failure mechanisms; Mechanical failure; SP423, pp. 181-191 (Apr. 1976). SP305-8.
- Microstructural sequence method; Nucleation; Ordering; Precipitation; Spinodal decomposition; Age hardening; Copper-titanium; DLA; Metastable solvus; 15053. SP305-7.
- Microstructure; Optical absorption; RbCl; SrCl<sub>2</sub>; Double-doped KCl laser windows; Grain boundary stability; Hot forged KCl; Mechanical strength; SP462, pp. 82-86 (Dec. 1976). SP305-8.
- Microstructure; Oxidation; Silicon nitride; Slow crack growth enstatite; Cristobalite; Deformation; Electron microscopy NBSIR 76-1153. SP305-8.
- Microstructure; Paraffin crystals; Plastic deformation; Polym crystals; Radiation damage; X-ray topography; 15433. SP305-7.

- Microstructure; Particle distribution; Phase mapping; Quality control; Scanning; Television systems; Variability; Variance (statistics); Aggregates; Anisotropy; Automation; Computers; Mechanical properties; Microscopes; 12935. **SP305-4.**
- Microstructure; Phase separation; Viscosity; Glass; *TN792. SP305-5.*
- Microstructure; Phase separation; Viscosity; 14480. **SP305-6.**
- Microstructure; Phase separation; Viscosity; Glass; 14494. **SP305-6.**
- Microstructure; Phase-separation; Viscosity; Borosilicate; Environmental-relaxation model; Glass; 14410. **SP305-6.**
- Microstructure; Rock; Zirconia; Alumina;  $Al_2O_3$ ; Ceramics; Electron microscopy; Fine-grain ceramic; Ion bombardment; Magnesia;  $MgO$ ; 12083. **SP305-3.**
- Microstructure; Sea-water periclase; Ceramic; Electron microscopy;  $MgO$ ; 11562. **SP305-2.**
- Microstructure; SEM; Lunar soil; Metal inclusions; Meteorite; 12131. **SP305-3.**
- Microstructure; Stoichiometry; Transmission electron microscopy; Vapor deposition; Cadmium telluride; Growth kinetics; Mechanical properties; *SP462*, pp. 100-118 (Dec. 1976). **SP305-8.**
- Microstructure; Stress corrosion; Vacuum strength; Alumina; Delayed fracture; Grinding of ceramics; *SP348*, pp. 89-96. **SP305-4.**
- Microstructure; Thermal emf-temperature; Thermocouples; Tungsten-rhenium alloys; Beryllium oxide; Drift; 14094. **SP305-6.**
- Microstructure; Thermocouple drift; W-Re alloys; W-Re type thermocouples; W-Re thermoelements; Beryllium oxide; Ductility; Emf-temperature relationship; 13585. **SP305-5.**
- Microstructures; Recrystallization temperature; Veiling; Annealing; Fracture energy ( $\gamma_c$ ); Isostatic forging; Kinking; *SP462*, pp. 87-94 (Dec. 1976). **SP305-8.**
- Microstructures; Titanium; Corrosion; 15765. **SP305-8.**
- Microstructures; Titanium; Transmission electron microscopy; 15777. **SP305-8.**
- Microtexture; Calcium silicate hydrates; Composition; Electron diffraction; Electron microscopy; Kaolin-lime-water; 9973. **SP305-1.**
- Microtitration; Null-point potentiometry; Potentiometry; Silver; Electroanalysis; Linear potentiometry; 10223. **SP305-1.**
- Microtopography; Single-crystal surface; Surface; Surface finish; Surface profile; Microscope; 12837. **SP305-4.**
- Microtopography; Single-crystal surface; Surface; Surface finish; Surface profile; Microscope; 14523. **SP305-6.**
- Microtwins; Scanning electron microscopy; Subsurface damage; Transmission electron microscopy; Abrasion; Aluminum oxide; Dislocations; Ion-bombardment; *SP348*, pp. 333-339. **SP305-4.**
- Microtwins; Transmission electron microscopy; Aluminum oxide; Dislocations; Mechanical polishing and grinding; 12952. **SP305-4.**
- Microwave; Accurate; Calibration; Directional coupler; High power; Measurement; *J.75C Nos. 3 and 4*, 181-186 (1971). **SP305-3.**
- Microwave; Adapter; Automation; Calibration; 14954. **SP305-7.**
- Microwave; Attenuation; Measurements; Standards; Tutorial; *Mono. 97. SP305.*
- Microwave; Chemical structure; Hydroperoxyl; 15849. **SP305-8.**
- Microwave; Coupling ratio calculation; Directional coupler; 10648. **SP305-1.**
- Microwave;  $HO_2$ ; Hydroperoxyl; 15637. **SP305-7.**
- Microwave; Impedance; Measurements; Reflectometer; *J.70C3-227, 165-168* (1966). **SP305.**
- Microwave; Measurements; 11113. **SP305-2.**
- Microwave; Microwave absorption; Molecular beam; Permittivity; Refractive index; Spectroscopy; Dielectric constant; Electric dipole moments; Gas phase; *NSRDS-NBS10. SP305.*
- Microwave; Microwave measurement; Network analyzer; Adapter; Automation; Efficiency; 14826. **SP305-7.**
- Microwave; Microwave measurement; Six-port; Automatic network analyzer; 16475. **SP305-8.**
- Microwave; Microwave power; Automation; Calibration; Directional coupler; 15650. **SP305-7.**
- Microwave; Microwave power; Calibration; Calibration factor; Directional coupler; Measurement; 15662. **SP305-7.**
- Microwave; Microwave power measurement; International intercomparison; 9188. **SP305.**
- Microwave; Minicomputer; Radiofrequency; RF exposure; Spectrum analyzer; Antenna; *SP456*, pp. 203-213 (Nov. 1976). **SP305-8.**
- Microwave; Mismatch error; Realizability; 2-ports; Attenuation; 10829. **SP305-1.**
- Microwave; Mismatch errors; Rayleigh distance; Standard gain horns; Antennas; Calibration; Comparison; Effective aperture; Electromagnetic horns; Gain; Measurement; *TN351. SP305.*
- Microwave; Molecular structure; Radio astronomy; Chemical analysis; Dipole moment; 13427. **SP305-5.**
- Microwave; Molecular structure; Rotational constants; Spectra; Bond distances; Hydrogen cyanide; Infrared; 12342. **SP305-3.**
- Microwave; Molecular structure; Spectrum; Vibration; Cesium hydroxide; Dipole moment; High temperature; 9895. **SP305-1.**
- Microwave; Multiple reflections; Speed of light; Waveguide junction; Interferometer; 10201. **SP305-1.**
- Microwave; Near-field; Calibrations; Electromagnetic hazards; Field meters; Gain; *NBSIR 75-805. SP305-8.*
- Microwave; Network; Nonreciprocal; Scattering parameters; Two-port; Measurement; 10815. **SP305-1.**
- Microwave; Noise; Phase shift; Power; Progress; Reflection coefficient; Review; Standards; Survey; Antenna gain; Attenuation; Field strength; Impedance; Measurement; 9565. **SP305-1.**
- Microwave; Noise; Standard; Cryogenic; 11164. **SP305-2.**
- Microwave; Noise source measurements; Radiometer; Cryogenic noise source measurements; 9150. **SP305.**
- Microwave; Off-null technique; Small attenuation changes; Two-channel; Attenuation; 11410. **SP305-2.**
- Microwave; Oscillators; Semiconductor; Solid state; Amplifiers; Basic characteristics; *TN597. SP305-3.*
- Microwave; Oscillators; Solid-state; Amplifiers; Basic characteristics; *TN518. SP305-2.*
- Microwave; Perchlorylfluoride; Quadrupole coupling constant structure; Dipole moment; 9204. **SP305.**
- Microwave; Permeability; Permittivity; Pressure broadening; Relaxation; Spectra; Absorption; Dielectric loss; Gases; Impact; Line shape; 9577. **SP305-1.**
- Microwave; Phase angle; Ratio; Self-calibration; Six-port; Vector voltmeter; Voltage; Attenuation; 15665. **SP305-7.**
- Microwave; Phase shift; Standards; UHF; Uncertainties; Measurements; 9697. **SP305-1.**
- Microwave; Physical properties; Physical quantities; Physics; Standards; Standards laboratory; Time and frequency; High frequency; Measurements; 10189. **SP305-1.**
- Microwave; Plasma; Time resolution; Density; Diagnostic; Electron; Interferometer; 9698. **SP305-1.**
- Microwave; Polished; Roughness; Substrate; Surface; Thick film; Thin film; Waviness; Camber; Ceramic; Fired; Flatness; Ground; Lapped; *SP348*, pp. 293-300. **SP305-4.**
- Microwave; Cryogenic fluids; Densitometer; Flowmeter; Instrumentation; 12528. **SP305-4.**
- Microwave; Power; Self balancing; Stabilizer; Bridge; Leveler; 12042. **SP305-3.**



Microwave; Power; Standard; Calorimeter; *TN618. SP305-4.*  
 Microwave; Power; Standards; Attenuation; Calibration; Coaxial; Impedance; *11250. SP305-2.*  
 Microwave; Power measurement; Bolometer; *16504. SP305-8.*  
 Microwave; Precision; Rotary vane; Attenuator; *J75C No. 1, 1-5 (1971). SP305-3.*  
 Microwave; Precision measurements; Standards; Coaxial; Connectors; *12670. SP305-4.*  
 Microwave; Pumping; Saturation; Double resonance; Infrared; Laser; Methyl bromide; *10422. SP305-1.*  
 Microwave; Qualitative analysis; Quantitative analysis; Rotational spectra; Applications; Chemical analysis; *15261. SP305-7.*  
 Microwave; Qualitative analysis; Quantitative analysis; Rotational spectra; Applications; Chemical analysis; *15625. SP305-7.*  
 Microwave; Quarter wave; Reflection coefficient measurement; Standing wave machine; UHF; Impedance measurement; *10389. SP305-1.*  
 Microwave; Radiometer; Sensitivity; Switching; Dicke; *J71C2-252, 127-152 (1967). SP305.*  
 Microwave; RbOH; Rotational constants; Quadrupole; Spectra; Bond distances; High temperature; *11217. SP305-2.*  
 Microwave; Reflection coefficient; Return loss; Sliding short; Shorted termination; Waveguide; *TN602. SP305-3.*  
 Microwave; Reflection coefficient magnitude; Repeatability; Coaxial connectors; Insertion loss; *16495. SP305-8.*  
 Microwave; Return loss; Waveguide short-circuit; Coaxial short-circuit; Impedance standards; *11251. SP305-2.*  
 Microwave; Rotary vane; Spiroid (Reg. T.M.); Attenuator; *12901. SP305-4.*  
 Microwave; Rotary-vane attenuator; Attenuation measurement; *11642. SP305-2.*  
 Microwave; Skin depth; Attenuation; Clay; Gravel; Measurements; *NBSIR 74-381. SP305-7.*  
 Microwave; Spectroscopy; Cw dye laser; Double resonance; *14275. SP305-6.*  
 Microwave; Symposium; Exhibits; *14111. SP305-6.*  
 Microwave; Theory; Electron cyclotron frequency; Emission; Harmonic; *10702. SP305-1.*  
 Microwave absorption; Cavity spectrometer; Echo box; Free radicals; Hydroxyl radical; *11093. SP305-2.*  
 Microwave absorption; Cobalt tricarbonyl nitrosyl; Dipole moment; Gas phase; Nonresonant; *10394. SP305-1.*  
 Microwave absorption; Free radical; *10000. SP305-1.*  
 Microwave absorption; Molecular beam; Permittivity; Refractive index; Spectroscopy; Dielectric constant; Electric dipole moments; Gas phase; Microwave; *NSRDS-NBS10. SP305.*  
 Microwave absorption; ND<sub>3</sub>; Pressure broadening; Argon mixtures; Inversion spectrum; Line shape; *9933. SP305-1.*  
 Microwave absorption; Paraldehyde; Relaxation; cis-1,3,5-trimethylcyclohexane; Dielectric; Dipole moment, gas; *14555. SP305-6.*  
 Microwave absorption; Rotational spectra; Interacting molecular pairs; Low frequency; *10686. SP305-1.*  
 Microwave absorption; Rotational transition; Astrophysical; Emission; Galactic distribution of isotopes; H<sub>2</sub><sup>18</sup>O; *11651. SP305-2.*  
 Microwave absorption; Vapor phase; CF<sub>3</sub>SF<sub>5</sub>; CISF; Dielectric relaxation time; Dipole moment; *14407. SP305-6.*  
 Microwave antenna; Power gain; Satellite; Calibration accuracy; Effective area; Effective radiated power; Extrapolation method; Gain comparison method; *14970. SP305-7.*  
 Microwave antenna measurement; Near-zone antenna measurement; Antenna polarisation and gain measurement; Extrapolation of near-zone antenna measurements; *12614. SP305-4.*  
 Microwave antennas; Near-field measurements; Patterns; Gains; *11855. SP305-3.*  
 Microwave cavities; Negative differential flow resistance; Pressure measurement; System dynamics; Thermometers; Cooling system; Cryogenics; Helium-cooled electrical leads; Helium impurities; *NBSIR 75-823. SP305-7.*  
 Microwave cavity; Plasma density; Collision frequency; Helium negative glow discharge; *TN607. SP305-3.*  
 Microwave circuit parameters; Microwave measurements; Phase angle; Power; Ratio; Reflection coefficient; Reflectometer; Self-calibration; Six-ports; Vector voltmeter; Voltage; Admittance; Automated precision measurements; Correlator; Current; Impedance; *TN673. SP305-7.*  
 Microwave conductivity; Organic conductors; Thermal expansion; TTF—TCNQ; D.c. conductivity; *16050. SP305-8.*  
 Microwave conductivity; Tetrathiofulvalinium-tetracyanoquinodimethane; TTF-TCNQ; Eddy currents; Electron paramagnetic resonance; *15917. SP305-8.*  
 Microwave coupling; SQUID; Superconducting switch; Tunnel junction; Voltage standard; Cryogenic resistor; Current comparator; Josephson device; Microstripline; *15596. SP305-7.*  
 Microwave current; Microwave voltages; Transmission-line voltages; Voltage measurements; Current measurement; Measurement voltages; *J72C No. 1, 61-79 (1968). SP305-1.*  
 Microwave current measurements; Microwave power measurements; Microwave voltage measurements; BOLOVAC; *12055. SP305-3.*  
 Microwave currents; Microwave voltages; Power measurement; Voltage measurement (HF & MW); Bolovac; Current measurement (HF & MW); (HF & MW); *11926. SP305-3.*  
 Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *TN702. SP305-3.*  
 Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *TN560. SP305-3.*  
 Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *TN571. SP305-3.*  
 Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *TN592. SP305-3.*  
 Microwave devices; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *TN598. SP305-3.*  
 Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic microphone; Wire bonds; Alpha detectors; *TN520. SP305-2.*  
 Microwave devices; Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; *TN555. SP305-2.*



Microwave devices; Profiling; Spreading resistance; Thin silicon layers; Diffusion; Epitaxy; Ion implantation; *SP400-10*, pp. 209-216. **SP305-6.**

Microwave diathermy fields; Temperature measurement; Measurement temperature; Medicine temperature; *16441*. **SP305-8.**

Microwave, digital, hygrometer; Digital microwave hygrometer; Hygrometer, digital microwave; *16199*. **SP305-8.**

Microwave diodes; Mobility; MOS devices; Oxide films; Photomasks; Photoresist; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; S-parameters; *SP400-1*. **SP305-6.**

Microwave diodes; Mobility; MOS devices; Oxide films; Photomasks; Photoresist; Platinum wire resistivity; Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; *SP400-4*. **SP305-6.**

Microwave diodes; Mobility; Pull test; Recombination centers; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Spreading resistance; *TN806*. **SP305-5.**

Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Recombination centers; Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; *TN754*. **SP305-5.**

Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bond; Wire bonds; *TN717*. **SP305-4.**

Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; *TN727*. **SP305-4.**

Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; *TN733*. **SP305-4.**

Microwave diodes; Nuclear radiation detectors; Probe techniques (a-c); Recombination centers; Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; *TN743*. **SP305-4.**

Microwave diodes; Probing techniques (a-c); Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; *TN773*. **SP305-5.**

Microwave diodes; Probing techniques (a-c); Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; *TN788*. **SP305-5.**

Microwave discharge; Photoemission; Tungsten; Ultraviolet photoemission; Adsorption; Chemisorption; CO; Cyclotron resonance; Electron cyclotron resonance; Magnetic field; *16016*. **SP305-8.**

Microwave discharges; Reactions of oxygen atoms; Atomic oxygen; Catalysis; Flow system reactions; Kinetic EPR spectroscopy; *10162*. **SP305-1.**

Microwave electron tubes; Tabulation; Characteristics tabulation; Electron tubes; *H104*. **SP305.**

Microwave emission; Molecular structure; Radio astronomy; Rotational spectrum; Formyl ion; Interstellar molecules; *16560*. **SP305-8.**

Microwave filters; Voltage standard; Arrays; Josephson junctions; Microstriplines; *14941*. **SP305-7.**

Microwave frequencies; S-band microwave frequencies; X-band; Electron-paramagnetic-resonance spectra; High resolution; L-uncoupling effects; *9606*. **SP305-1.**

Microwave frequency stability; Harmonic generation; Josephson junction; Laser frequencies; Methane; *13999*. **SP305-6.**

Microwave hazard meters; Microwave radiation; *16464*. **SP305-8.**

Microwave hygrometer; Dew-point; Hygrometer; *NBSIR 74-578*. **SP305-6.**

Microwave instrumentation; Microwave spectroscopy; Radio astronomy; Short-lived molecules; Chemical monitoring and analysis; Double resonance; *16400*. **SP305-8.**

Microwave interferometry; Plate tectonics; Satellite geodesy; Crustal moments; Earth rotation; Geodynamics; Lunar distance; *15799*. **SP305-8.**

Microwave losses; Quasiparticle interference current; Josephson tunnel junction; Magnetic field; *13168*. **SP305-5.**

Microwave measurement; Mismatch; Network analyzer; Noise; Pulse generator; Pulse measurement; Sampling oscilloscope; Scattering parameters; Spectral analysis; Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Jitter; *TN672*. **SP305-7.**

Microwave measurement; Network analyzer; Adapter; Automation; Efficiency; Microwave; *14826*. **SP305-7.**

Microwave measurement; Nondestructive testing; Thickness of coal layer; Automation; Coal; Coal mine safety; Dielectric constant; Energy; *NBSIR 74-387*. **SP305-6.**

Microwave measurement; Nondestructive testing; Thickness of coal layer; Automation; Coal; Coal mine safety; Dielectric constant; Energy; *NBSIR 76-840*. **SP305-8.**

Microwave measurement; Six-port; Automatic network analyzer; Microwave; *16475*. **SP305-8.**

Microwave measurement methods; Multiple probe devices; Reflectometers; Rotating probe devices; Slotted lines; Survey of automatic techniques; Swept frequency measurements; Wheatstone Bridge; Automatic network analyzers; Computer-controlled measurement; Magic tee; *Monogr. 151*. **SP305-8.**

Microwave measurements; Efficiency of two-port; Measurement of 2-port efficiency; *12946*. **SP305-4.**

Microwave measurements; Microwave power measurements; One-port parameters; Six-port junction; Application of six-port junction concept; Automated measurements; Broadband measurements; *16501*. **SP305-8.**

Microwave measurements; Microwave standards; Coaxial connectors; Electromagnetic quantities; International comparisons of standards; *9566*. **SP305-1.**

Microwave measurements; Mismatch; Power measurement; *10929*. **SP305-2.**

Microwave measurements; Phase angle; Power; Ratio; Reflection coefficient; Reflectometer; Self-calibration; Six-ports; Vector voltmeter; Voltage; Admittance; Automated precision measurements; Correlator; Current; Impedance; Microwave circuit parameters; *TN673*. **SP305-7.**

Microwave measurements; Phase angle; Self-calibration; Seven-port junction; Vector voltmeter; Amplitude; Computer controlled; Diode detectors; *NBSIR 76-844*. **SP305-8.**

Microwave measurements; Power equation; Power measurement; Terminal invariant; *TN637*. **SP305-5.**

Microwave mixer diodes; Mixers; Neutrons; Radiation hardness; Receivers; Schottky-barrier diodes; Semiconductors; Solid-state devices; X-band measurements; Diodes; Gamma rays; Hardness assurance; *SP400-7*. **SP305-8.**

Microwave multipoint; Nonreciprocal multipoints; Thermal noise; Available power ratio; *11176*. **SP305-2.**

- Microwave network analysis; Reflection coefficient; Scattering coefficient; Anharmonic ratio; Automatic network analyzers; Cross ratio; *TN623*. **SP305-4.**
- Microwave network analysis; Waveguide junction; Matrix description of waveguide junctions; *10660*. **SP305-1.**
- Microwave network theory; Mismatch errors; Phase shift-measurement; Power measurement; Reflectometers; Waveguide joints; Waveguide theory; Attenuation definitions; Attenuation measurement; Barretter mount efficiency; Coaxial connectors; *Monogr. 137*. **SP305-5.**
- Microwave power; Automation; Calibration; Directional coupler; Microwave; *15650*. **SP305-7.**
- Microwave power; Barretter; Bolometer; Current distribution in barretter; *11528*. **SP305-2.**
- Microwave power; Calibration; Calibration factor; Directional coupler; Measurement; Microwave; *15662*. **SP305-7.**
- Microwave power; Mismatch error; Attenuation; Impedance; *12236*. **SP305-3.**
- Microwave power; Precision connector; Terminal invariant; Attenuation; Impedance; *Monogr. 112*. **SP305-1.**
- Microwave power density; Microwave radiation measurement; *SP456*, pp. 99-105 (Nov. 1976). **SP305-8.**
- Microwave power measurement; Bolometer substitution error; *10501*. **SP305-1.**
- Microwave power measurement; International intercomparison; Microwave; *9188*. **SP305.**
- Microwave power measurements; Microwave voltage measurements; BOLOVAC; Microwave current measurements; *12055*. **SP305-3.**
- Microwave power measurements; One-port parameters; Six-port junction; Application of six-port junction concept; Automated measurements; Broadband measurements; Microwave measurements; *16501*. **SP305-8.**
- Microwave power measurements; Substitution error; Barretter; Bolometer; *J.72C No. 2, 127-237* (1968). **SP305-1.**
- Microwave radiation; Microwave hazard meters; *16464*. **SP305-8.**
- Microwave radiation; Microwaves; Product safety; Radiation; Radiation effects; Resonant cavity; Rhesus; Suppression; Behavior; Behavioral suppression; Exposure; *15194*. **SP305-7.**
- Microwave radiation; Probe; Radiation; Standards; Electromagnetic radiation; Energy density; Hazards; Measurement; *TN391*. **SP305-2.**
- Microwave radiation measurement; Microwave power density; *SP456*, pp. 99-105 (Nov. 1976). **SP305-8.**
- Microwave refractometer; Humidity; Hygrometer; *15228*. **SP305-7.**
- Microwave spectra; Alkali hydroxides; CsOH; KOH; *9863*. **SP305-1.**
- Microwave spectra; Centrifugal distortion; Critical review; Formamide; Interstellar molecules; *14648*. **SP305-6.**
- Microwave spectra; Centrifugal distortion; Force field; *14718*. **SP305-6.**
- Microwave spectra; Molecular constants; Molecular structure; Spectra; Deuterium cyanide; Hydrogen cyanide; Infrared spectra; *10393*. **SP305-1.**
- Microwave spectra; Molecular parameters; Rotational transitions; Spectra; Bond distances; Carbonyl sulfide; *13653*. **SP305-5.**
- Microwave spectra; Molecular parameters; Rotational transitions; Sulfur monoxide; Born-Oppenheimer approximation; Isotopic effects; *14497*. **SP305-6.**
- Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Thioformaldehyde; Formaldehyde; Formamide; Interstellar molecules; *J. Phys. Chem. Ref. Data 1*, No. 4, 1011-1046 (1972). **SP305-6.**
- Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Hyperfine structure; Interstellar molecules; Methyleneimine; *J. Phys. Chem. Ref. Data 2*, No. 1, 1-10 (1973). **SP305-6.**
- Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Torsion; Internal rotation; Interstellar molecules; Methanol; *J. Phys. Chem. Ref. Data 2*, No. 2, 205-214 (1973). **SP305-6.**
- Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Hydrogen sulfide; Hyperfine structure; Interstellar molecules; *J. Phys. Chem. Ref. Data 2*, No. 2, 215-223 (1973). **SP305-6.**
- Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Water; Hyperfine structure; Interstellar molecules; *J. Phys. Chem. Ref. Data 3*, No. 1, 211-219 (1974). **SP305-6.**
- Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Spectra; Carbonyl sulfide; Hydrogen cyanide; Interstellar molecules; *J. Phys. Chem. Ref. Data 3*, No. 1, 221-244 (1974). **SP305-6.**
- Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Silicon monoxide; Carbon monosulfide; Carbon monoxide; Interstellar molecules; *J. Phys. Chem. Ref. Data 3*, No. 1, 245-257 (1974). **SP305-6.**
- Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Spectra; Sulfur monoxide; Interstellar molecules; *J. Phys. Chem. Ref. Data 3*, No. 1, 259-268 (1974). **SP305-6.**
- Microwave spectra; Molecular parameters; Rotational transitions; Radio astronomy; Isocyanic acid; Interstellar molecules; *JPCRD 5*, No. 1, 79-102 (1976). **SP305-8.**
- Microwave spectra; Molecular spectra; Polyatomic molecules; Quadrupole coupling constants; Rotational constant; Spectral lines; Barrier height; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; *Monogr. 70 Volume III*. **SP305-1.**
- Microwave spectra; Molecular spectra; Polyatomic molecules; Quadrupole coupling constants; Rotational constant; Spectral lines; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; L-doubling; *Monogr. 70, Volume IV*. **SP305-1.**
- Microwave spectra; Molecular spectra; Polyatomic molecules; Rotational quantum numbers; Spectral lines; Diatomic molecules; Hyperfine; *Monogr. 70, Volume V*. **SP305-1.**
- Microwave spectra; Molecular structure; Quadrupole coupling constants; Rotational constants; Difluoroborane; Dipole moment; *10486*. **SP305-1.**
- Microwave spectra; Molecular structure; OCS; Spectra; Spectroscopy; Carbonyl sulfide; Energy levels;  $\theta$ -doublet transitions; *9919*. **SP305-1.**
- Microwave spectra; Molecular structure; Dipole moment; Internal rotation; Methane sulfonyl fluoride; Methyl sulfone; *14402*. **SP305-6.**
- Microwave spectra; Molecules, Orion; Radio astronomy; Sulfur dioxide; Interstellar; *16434*. **SP305-8.**
- Microwave spectra; Nitrous acid; Quadrupole coupling constants; Structure; Dipole moment; *9647*. **SP305-1.**
- Microwave spectra; Optical detection; Stimulated emission; *CN 10636*. **SP305-1.**
- Microwave spectra; Predicted spectra; Radio astronomy; Silico molecules; Structures; Unidentified molecular lines; *1486*. **SP305-7.**
- Microwave spectra; Radio astronomy; Rotational transition; Silicon sulfide; Spectra; Interstellar molecules; *JPCRD 5*, No. 4, 1147-1156 (1976). **SP305-8.**
- Microwave spectra; Rotational spectrum; Transformation coefficients; Angular momentum; Asymmetric rotor; Eigenfunction; *NSRDS-NBS12*. **SP305-1.**
- Microwave spectra; Spectral lines; Water; Asymmetric, linear and symmetric top molecules; "B" rotational constants; Formaldehyde; *J.73A No. 2, 233-239* (1969). **SP305-1.**
- Microwave spectra; Structure; CF<sub>3</sub>; Dipole moment; Force field; *14348*. **SP305-6.**

- Microwave spectra; Structure; Vibrational state; Centrifugal distortion; Chemistry; Disulfur monoxide; 14433. SP305-6.
- Microwave spectroscopic data; Gaseous molecules; Interstellar absorption lines, microwave absorption lines; 14710. SP305-6.
- Microwave spectroscopy; CN; Double resonance; Excited state; Magnetic dipole transitions; 11300. SP305-2.
- Microwave spectroscopy; Cyanocetylene; Direct l-type doubling transitions; Fluorocyanogen; l-type doubling constants; l-type resonance; Methyl cyanide; 10385. SP305-1.
- Microwave spectroscopy; Microwave studies; Molecular structure; Rotational spectra; Spectra, rotational; Spectroscopy, microwave; Chemical analysis; 9893. SP305-1.
- Microwave spectroscopy; Molecular rotation; Molecular structure; Qualitative analysis; Quantitative analysis; Dipole moment; 13536. SP305-5.
- Microwave spectroscopy; Molecular structure; Vibrational resonance; Energy levels; ICN; Infrared spectroscopy; 11213. SP305-2.
- Microwave spectroscopy; Nuclear spins; Chemical bonds; Cyanogen, molecular energy levels; Electron transition; 9699. SP305-1.
- Microwave spectroscopy; Propionaldehyde; Rotational; Structure; Butadiene; Isomerism; 9894. SP305-1.
- Microwave spectroscopy; Radio astronomy; Short-lived molecules; Chemical monitoring and analysis; Double resonance; Microwave instrumentation; 16400. SP305-8.
- Microwave spectroscopy; Raman spectroscopy; Ring-puckering; Barrier heights; Four-member ring molecules; Infrared spectroscopy; 14685. SP305-6.
- Microwave spectroscopy; Rotational spectrum; Thioformaldehyde; Astronomically important; Electrical discharge; Interstellar medium; 11965. SP305-3.
- Microwave spectroscopy; Rotational spectrum; Sulfur difluoride; Molecular structure; Dipole moment; Electrical discharge; 14355. SP305-6.
- Microwave spectrum; Molecular structure; Stark effect; Rotational spectrum; Dipole moment; Ethynylidifluoroborane; 12328. SP305-3.
- Microwave spectrum; Molecular structure; Rotational transitions; Aminodifluoroborane; Dipole moment; Gas-phase reaction; 13841. SP305-6.
- Microwave spectrum; Molecular structure; Ring conformation; Rotational constants; Cyanocyclobutane; Dipole moment; 14282. SP305-6.
- Microwave spectrum; Molecular structure; Sulfur monoxide dimer; Rotational spectrum; Centrifugal distortion; Dipole moment; 14434. SP305-6.
- Microwave spectrum; Molecular structure; Vibration-rotation interaction; Alkali hydroxides; Anharmonicity; Force constants; 11045. SP305-2.
- Microwave spectrum; Molecular structure; Barrier; *cis*-2-butene; Dipole moment; Internal rotation; 11109. SP305-2.
- Microwave spectrum; Molecular structure; Silacyclopentane; Small-ring molecule; Stark effect; Dipole moment; 16046. SP305-8.
- Microwave spectrum; Ozone depletion; Rotational constants; Stratospheric chemistry; Atmospheric pollution; Chlorine nitrate; Dipole moment; 16584. SP305-8.
- Microwave spectrum; Phosphorus trifluoride-borane; Structure; Barrier; Coriolis; Dipole moment; 9862. SP305-1.
- Microwave spectrum; Pyrazole; Rotational constants; Dipole moment; Gas phase pyrazole; 9846. SP305-1.
- Microwave spectrum; Pyrazole; Stark effect; Structure; Tautomerism; Dipole moment; 10475. SP305-1.
- Microwave spectrum; Pyrolysis; Quadrupole structure; Rotational transitions; Transient species; Methyleneimine; 13066. SP305-5.
- Microwave spectrum; Quadrupole coupling; Stark effect; Symmetric top; Trifluoramine; Dipole moment; Hyperfine structure; 13426. SP305-5.
- Microwave spectrum; Quadrupole splittings; Rotational transitions; Weighted fit; Astrophysical interest; Centrifugal distortion; Formamide; 13218. SP305-5.
- Microwave spectrum; Quadrupole structure; Rotational transitions; Transient species; Boron monofluoride; Dipole moment; Discharge; 14382. SP305-6.
- Microwave spectrum; Radio astronomy; Rotational transitions; Acetaldehyde; Internal rotation; Interstellar molecules; JPCRD 5, No. 1, 53-78 (1976). SP305-8.
- Microwave spectrum; Reactive species; Rotational spectra; Thioformaldehyde; Structure; Dipole moment; 12325. SP305-3.
- Microwave spectrum; Ring conformation; Rotational constants; 3,6-Dioxabicyclo[3.1.0]hexane; Boat conformation; Dipole moment; 13618. SP305-5.
- Microwave spectrum; Ring conformation; Rotational constants; Cyclopentene oxide; Dipole moment; Epoxy cyclopentene; 11970. SP305-3.
- Microwave spectrum; Rotational constants; Unperturbed vibrational frequencies; Vibrational spectrum; Fermi resonance; Infrared spectrum; 9873. SP305-1.
- Microwave spectrum; Rotational constant; Structure; Vibrational frequency; Dipole moment; Ethynylidifluoroborane; 14366. SP305-6.
- Microwave spectrum; Rotational spectra; Transient species; BrO; Free radical; Magnetic hyperfine; 12669. SP305-4.
- Microwave spectrum; Rotational transitions; Stark effect; Chlorine monoxide; Free radical; Hyperfine structure; 10816. SP305-1.
- Microwave spectrum; Rotational transitions; Stark effect; Vibrational states; Allene; E vibrational state; 11035. SP305-2.
- Microwave spectrum; SF<sub>6</sub>; Structure; Vibrational fundamental; Centrifugal distortion; Force field; 13905. SP305-6.
- Microwave spectrum; Stark effect; Structural parameters; Dipole moment; HNSO; Isotopic species; 11020. SP305-2.
- Microwave spectrum; Structure; Dinitrogen trioxide; Equilibrium; 9253. SP305.
- Microwave spectrum; Structure; CF<sub>2</sub>; Dipole moment; Free radical; 9380. SP305.
- Microwave spectrum; Torsional mode; Barrier to internal rotation in CF<sub>3</sub>SiF<sub>5</sub>; 13202. SP305-5.
- Microwave spectrum of hexafluoropropene; Rotational constants; Ground vibrational state; 13909. SP305-6.
- Microwave standards; Coaxial connectors; Electromagnetic quantities; International comparisons of standards; Microwave measurements; 9566. SP305-1.
- Microwave studies; Molecular structure; Rotational spectra; Spectra, rotational; Spectroscopy, microwave; Chemical analysis; Microwave spectroscopy; 9893. SP305-1.
- Microwave transmission lines; Siemens-Halske AEG; Wandel & Goltermann; Automatic noise-level recorders; Calibration of carrier-frequency filters; SP335, pp. 125-127. SP305-3.
- Microwave transmissions; Phase; Tracking; Atmospheric; Distance measurements; Earth-to-space microwave transmissions; TN339. SP305.
- Microwave voltage measurements; BOLOVAC; Microwave current measurements; Microwave power measurements; 12055. SP305-3.
- Microwave voltages; Power measurement; Voltage measurement (HF & MW); Bolovac; Current measurement (HF & MW); (HF & MW); Microwave currents; 11926. SP305-3.
- Microwave voltages; Standards of rf voltage; Voltage measurement; High frequency voltages; 10059. SP305-1.
- Microwave voltages; Transmission-line voltages; Voltage measurements; Current measurement; Measurement voltages; Microwave current; J72C No. 1, 61-79 (1968). SP305-1.

- Microwaves; Mm-waves; Reflection coefficient measurement; Tuners; Tuning circuit; Impedance measurement; 12229. **SP305-3.**
- Microwaves; Oscillator calibration; Big G; Bolometer calibration; Earthquake prediction; Frequency standard systems; Heat-pipe ovens; Hoover; Liquefied natural gas; Magnetometer; Mechanical failure; *DIM/NBS 58*, No. 8, 169-192 (1974). **SP305-6.**
- Microwaves; Phase angle; Ratio; Six-port junction; Vector volt-meter; Voltage; Attenuation; Automation; Detector; Insertion loss; 15649. **SP305-7.**
- Microwaves; Product safety; Radiation; Radiation effects; Resonant cavity; Rhesus; Suppression; Behavior; Behavioral suppression; Exposure; Microwave radiation; 15194. **SP305-7.**
- Microwaves; Quantum interference; Superconductivity; Magnetometer; 12954. **SP305-4.**
- Microwaves; Radio measurement methods; Radio measurement standards; Time standards; Coaxial connectors; Electromagnetic properties of materials; Frequency standards; Lasers; 10013. **SP305-1.**
- MIDAS; Programmable controller; Computer-controlled experiment; Computer interfacing; Data acquisition system; Digital interface; Instrumentation; Laboratory automation; *TN790*. **SP305-5.**
- MIDAS; Programmable desk calculator; Standard cell comparator; Automated; Calculator; Calibration; Crossbar switch; Low-level voltage measurements; 15906. **SP305-8.**
- Mie theory; Particles; Rayleigh scattering; Aerosols; Dusts; Light-scattering; *NBSIR 76-1031*. **SP305-8.**
- Mie Theory; Scattering functions; Cloud physics; Infrared light; Light scattering; 9228. **SP305.**
- Migrant camps; Thermesthesiometer; Air conditioners; Clean air; Drunk drivers; Energy labeling; Fundamental constants; Irradiated foods; Metric computer program; *DIM/NBS 58*, No. 1, 1-24 (1974). **SP305-6.**
- Migrant labor camps; Questionnaire construction; Regulations; Survey design; Health standards; 13787. **SP305-5.**
- Migration; Oxide; Proton; Range; Scattering; Depth; Deuterium; Diffusion; Elastic; Helium; *SP425*, pp. 488-491. **SP305-7.**
- Migration energy; Migration entropy; Molecular dynamics; Random-walk theory; Vacancy motion; Atomic diffusion; Defect motion; Interstitial motion; Jump frequency; Lattice model; 12022. **SP305-3.**
- Migration entropy; Molecular dynamics; Random-walk theory; Vacancy motion; Atomic diffusion; Defect motion; Interstitial motion; Jump frequency; Lattice model; Migration energy; 12022. **SP305-3.**
- Migration of silver; Silver whiskers; Beta alumina; Electron microscope; Lattice images; *SP364*, pp. 129-137. **SP305-4.**
- Mild steel; Oxidizing agent; Schreibersite; Sulfate-reducing bacteria; Vivianite; Anaerobic corrosion; Cathodic depolarization theory; Charles Thom Award; *Desulfovibrio desulfuricans*; Hollow whiskers; Mechanism; Microbial corrosion; 15233. **SP305-7.**
- Military; Reliability; Sandwich panel; Shelter; Durability; Field inspection; Foam and beam; Honeycomb; Impact; Lightweight structures; *NBSIR 76-1025*. **SP305-8.**
- Military construction; New generation military hospital; System design; Architecture; Design; Hospital design; Medical facilities; *BSS54*, pp. 1-12. **SP305-6.**
- Military family housing; Specification; Unitary heat pump; Heating and cooling; *NBSIR 76-1029*. **SP305-8.**
- Military vehicles; Noise; Sound; Tire noise; Truck tires; Acoustics; 14875. **SP305-7.**
- Milk handling; Milk meters; Plastic milk containers; Farm milk tanks; 10371. **SP305-1.**
- Milk meters; Plastic milk containers; Farm milk tanks; Milk handling; 10371. **SP305-1.**
- Mill scale; Permafrost region; Pipe piling; Pit depth; Polarization; Sheet piling; Undisturbed soil; Weight loss; Active region; Aerated soil; Corrosion; Disturbed soil; Excavated; Extracted; H-piling; Instantaneous corrosion rate; *Monogr. 127*. **SP305-4.**
- Miller algorithm; Difference equation; Bessel functions; Backward recursion; Error bound; *J77B Nos. 3 and 4*, 111-114 (1973). **SP305-5.**
- Miller algorithm; Recurrence methods; Special functions; Chebyshev series; Difference equations; Error analysis; *J71B2* 263-206, 111-129 (1967). **SP305.**
- Miller algorithm; Recurrence methods; Special functions; Chebyshev series; Difference equations; Error analysis; 10697. **SP305-1.**
- Miller algorithm; Recurrence relations; Special functions; Chebyshev series; Difference equations; Error bounds; *J71B4* 238, 161-166 (1967). **SP305.**
- Miller algorithms; Backward recursion; Bessel functions; Difference equation; Error bounds; *J77B Nos. 3 and 4*, 125-132 (1973). **SP305-5.**
- Miller's algorithm; Recursion; Bessel functions; Difference equations; Error bounds; FORTRAN; 13158. **SP305-5.**
- Millidegree; Noise; Superconductivity; Thermometry; Josephson effect; Linewidth; 10376. **SP305-1.**
- Millikelvin; Thermometry; Carbon resistors; Cryogenics; Liquid helium; 15537. **SP305-7.**
- Millimeter; Reflection coefficient, VSWR; Attenuation; Measurement system; *TN619*. **SP305-4.**
- Millimeter absolute radiometry; Millimeter solar continuum; Solar chromosphere; 13468. **SP305-5.**
- Millimeter solar continuum; Solar chromosphere; Millimeter absolute radiometry; 13468. **SP305-5.**
- Millimeter wave; Noise; Nyquist's theorem; Thermal noise standard; Error analysis; *TN615*. **SP305-4.**
- Millimeter wave; Reflectometer; WR-12 waveguide; 11049. **SP305-2.**
- Millimeter wave difference frequency; Neon laser's millimeter wave difference frequency; Optical heterodyne measurement; Frequency-millimeter wave difference; Heterodyne measurement; 9764. **SP305-1.**
- Millimeter wave spectra; Rotational transition thioformaldehyde; Centrifugal distortion; Interstellar molecule; 13245. **SP305-5.**
- Millimeter waves; Multiple reflections; Outliers; Perpendicular polarization; Quasi-optics; Reflection coefficient; Transverse displacement; Vector solution; Approximation errors; Complex dielectric constant; Convergence confidence interval; *TN369*. **SP305-1.**
- Millimeter waves; Noise calibration; Standard; Thermal noise; 14148. **SP305-6.**
- Millimeter waves; Polarizers; Quasi-optics; Total reflection; Turnstile junction; 11744. **SP305-2.**
- Millimeter waves; Stark effect; Water; *J76A No. 5*, 521-528 (1972). **SP305-4.**
- Millimeterwave; Reflectometer; WR-12; Connector; 10699. **SP305-1.**
- Millisecond resolution; Pulse calorimetry; Solid electrical conductors; Measurements at high temperatures; 13276. **SP305-5.**
- Millivolts; Optical meter relay; Circuit; High voltage; Microamperes; 10251. **SP305-1.**
- Mine noise; Spectral density; Time-dependent spectral density; Amplitude probability distribution; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; Fast Fourier transform; Gaussian distribution; Impulsive noise; *NBSIR 74-391*. **SP305-7.**
- Mineral; Space group; Synthetic sphene; X-ray;  $\text{CaTiGeO}_6$ ,  $\text{CaTiSiO}_6$ ; Crystal; 10776. **SP305-1.**



- Mineral analysis; Secondary ion mass spectrometry (SIMS); Surface analysis; Auger electron spectroscopy; Elemental depth profiling; Ion microprobe mass analysis; Ion optics; Local thermal equilibrium (LTE); *SP427. SP305-7.*
- Mineral analysis; Synthetic standards; Apollo 12; Electron probe analysis; Lunar materials; *13240. SP305-5.*
- Mineral analysis; Trace analysis; X-ray fluorescence; *SP422, pp. 1109-1118 (Aug. 1976). SP305-8.*
- Mineral chemistry; Rare-earth silicate; X-ray powder analysis; Ca, Mg phosphate; Hydrothermal synthesis; Inorganic synthesis; *J72A No. 4, 355-358 (1968). SP305-1.*
- Mineral identification; Polymorphism; Rare-earth silicate; Solid solubility; X-ray powder analysis; Crystal chemistry; Gel-preparation; Inorganic synthesis; *10998. SP305-2.*
- Mineral structure; Neutron diffraction; Apophyllite; Fluoro silicate; Hydrated minerals; Hydrogen bonds; *12418. SP305-4.*
- Mineralization; Calcification; Calcium carbonate; Crystal structure; Hydrate; Ion pairs; *11951. SP305-3.*
- Mineralogy; Moon; Petrography; Pyroxene; Rocks; Apollo 12; Crystallization; *14641. SP305-6.*
- Mineralogy; Moon; Petrography; Rocks; Apollo 11; Electron probe analysis; *11958. SP305-3.*
- Minerals; Ceramics; Educational priorities; Energy; Engineer-scientist; Environmental quality; Materials; *16156. SP305-8.*
- Minerals; Optical properties; Twinning; Unit cell dimensions; Cleavage; Compilation; Crystal; Crystal habit; Crystal space group; Crystal structure types; Density; Determination; Identification; *15084. SP305-7.*
- Minerals; Ores; Organic; Polymers; Spectroscopy; Bibliography; Data; Infrared; Inorganic; *SP428. Parts 1, 2, and 3. SP305-8.*
- Minerals; Raman spectroscopy; Chemical analysis; Fluid interactions; Geology; *15930. SP305-8.*
- Minerals; Rocks; Analysis; Electron probe; Lunar samples; Microanalysis; *11995. SP305-3.*
- Mineral-surfaced roll roofing; Shingles; Wood fibers; Asphalt; Asplund; Felt; *TN477. SP305-1.*
- Miners (communications); Atomic timekeeping; Building technology; Disaster studies; Energy-saving building construction; Energy squeeze; Insulation; Measuring energy utilization; *DJM/NBS 58, No. 3, 49-72 (1974). SP305-6.*
- Mines; Noise; Communication; Field strength; Measurement; *13155. SP305-5.*
- Miniature; Pulse delay; Superconducting; Telecommunications; Transmission lines; Cables; Coaxial; Cryogenic; *13338. SP305-5.*
- Minicomputer; Modular; Multiparameter; On-line; CAMAC; Disc; *SP425, pp. 97-98. SP305-7.*
- Minicomputer; Multi-task; Performance testing; Process control; Real-time; RTOS; Automation; Calibration; Fuel control; Jet engine; *15550. SP305-7.*
- Minicomputer; Network measurement; Performance measurement; Computer networks; Data acquisition; Man-machine interaction; *TN912. SP305-8.*
- Minicomputer; Noise; Community noise; Computer interface; Instrumentation; *NBSIR 75-692. SP305-8.*
- Mini-computer; On-line correction; Quantitative microanalysis; Electron probe; *TN796. SP305-5.*
- Minicomputer; Plotter; Digital plotter; Graph; Graphics; *TN847. SP305-6.*
- Minicomputer; Radiofrequency; RF exposure; Spectrum analyzer; Antenna; Microwave; *SP456, pp. 203-213 (Nov. 1976). SP305-8.*
- Mini-computer; Sample preparation; Toxic metals; Trace determination; Aquatic insects; Atomic absorption; Clean room; Fish; *SP422, pp. 627-632 (Aug. 1976). SP305-8.*
- Minicomputer; Shakers; Standards; Transducers; Vibration; Vibration exciters; Vibration pickups; Acceleration; Automation; Calibration; Measurements; *NBSIR 74-482. SP305-7.*
- Minicomputer; Software; Computer, computer hardware; Computer software; Cross-assembler; Cross-compiler; Hardware; Language; *13451. SP305-5.*
- Minicomputer; Text; Assembly; Conversational; Editor; Language; *13352. SP305-5.*
- Minicomputer applications; Minicomputer maintenance; Minicomputer peripherals; Minicomputer software; *14119. SP305-6.*
- Minicomputer applications; Minicomputer controlled tests; Supervisory control; Test equipment reliability; Automated test equipment; Automated tests for jet engine fuel controls; Computer interfacing; Digital computer controlled tests; Jet engine fuel control testing; *15087. SP305-7.*
- Minicomputer controlled tests; Supervisory control; Test equipment reliability; Automated test equipment; Automated tests for jet engine fuel controls; Computer interfacing; Digital computer controlled tests; Jet engine fuel control testing; Minicomputer applications; *15087. SP305-7.*
- Minicomputer maintenance; Minicomputer peripherals; Minicomputer software; Minicomputer applications; *14119. SP305-6.*
- Minicomputer peripherals; Minicomputer software; Minicomputer applications; Minicomputer maintenance; *14119. SP305-6.*
- Minicomputer software; Minicomputer applications; Minicomputer maintenance; Minicomputer peripherals; *14119. SP305-6.*
- Minicomputer software; Random error; Skewness; Surface microtopography; Surface roughness; Surface texture; Systematic error; Amplitude density function; Arithmetic average; Autocorrelation function; Average wavelength; Kurtosis; *TN902. SP305-8.*
- Minicomputer software; Surface texture measurement; Amplitude density function; Arithmetic average; Autocorrelation function; Linear least-squares fit; Machine language; *NBSIR 75-924. SP305-8.*
- Minicomputer-based systems; MUMPS; MUMPS Development Committee; MUMPS Language Standard; Data handling language; Interactive computing; Interpretive computer programming language and operating system; Medical automation; *H118. SP305-7.*
- Minicomputer-based systems; Network configuration; Remote job entry; Resource sharing; Computer networks; Computer-to-computer transfers; Interactive terminals; *TN804. SP305-6.*
- Minicomputer-based systems; Operating systems; Automated computer access; Computer networking; Macro processor; *15544. SP305-7.*
- Minicomputers; Access procedures; Computer networks; Macros; *16177. SP305-8.*
- Minicomputers; Computer graphics; Cost-benefit analysis; Economic analysis; Graphics; *15488. SP305-7.*
- Minicomputers; Computer security; *16447. SP305-8.*
- Minicomputers; Network Access Machine; Network services; Response time; Response time predictions; Computer networks; *16326. SP305-8.*
- Minicomputers; Networks; Standards; Microcomputers; *15643. SP305-7.*
- Minicomputers; On-line analysis; Quantitative electron probe microanalysis; Scanning electron microscopy; SRM-480; Empirical methods; *15248. SP305-7.*
- Minicomputers; Protocols; Access procedures; Command language; Computer networks; Macros; *15541. SP305-7.*
- Minicomputers; Protocols; Teleprocessing; Access procedures; Command language; Computer networks; Job control language; Macros; *TN917. SP305-8.*
- Minima; Monte Carlo; Cross section; Fission neutrons; Inelastic scattering; Iron; *SP425, pp. 440-443. SP305-7.*

- Minimal blocks; Planar graphs; Thickness of graphs; Two-connected graphs; Blocks; Combinatorics; Examples of graphs; Graph theory; *J.77B Nos. 1 and 2, 53-60 (1973). SP305-5.*
- Minimality; Thickness of graphs; Conjectures; Connectivity; Cut-set; Graph theory; Mathematics; *J.72B No. 3, 239-244 (1968). SP305-1.*
- Minimax; Combinatorial analysis; Combinatorial probability; Measure theory; *J. Res. 80B No. 2, 237-243 (1976). SP305-8.*
- Minimax estimation; Operations research; Probability distribution; Linear programs; Mathematical models; *J.76B Nos. 1 and 2, 1-38 (1972). SP305-4.*
- Minimax estimation; Operations research; Probability distribution; Linear programs; Mathematical models; *J.73B No. 3, 225-230 (1969). SP305-1.*
- Minimax estimation; Operations research; Probability distribution; Linear programs; Mathematical models; *J.73B No. 3, 231-239 (1969). SP305-1.*
- Minimax estimation; Probability distribution; Mathematical models; *J.72B No. 4, 273-277 (1968). SP305-1.*
- Minimizing maximum lateness; Minimizing total delay; Multitasking scheduling; Scheduling; Scheduling algorithms; Single-machine scheduling; Job scheduling; *14313. SP305-6.*
- Minimizing total delay; Multitasking scheduling; Scheduling; Scheduling algorithms; Single-machine scheduling; Job scheduling; Minimizing maximum lateness; *14313. SP305-6.*
- Minimum and maximum detectable ages; Radiocarbon dating; Statistical limitations; Age resolution; Extraneous random errors; Factor of merit components; Method performance characteristics; *13875. SP305-6.*
- Minimum audible angle; Psychometric functions; Psychophysics; Space perception; Auditory localization; Diffraction patterns; Earphone simulation; Human audition; Interaural differences; *14063. SP305-6.*
- Minimum cost; Network configuration; Optimization; Telpak rate structure; Communications network; Computer program; Heuristic; *TN787. SP305-5.*
- Minimum delay programs; Network; Network optimization; Optimal sorting; Sorting networks; Decision networks; *13193. SP305-5.*
- Minimum detectable activity; Statistical; Background; Critical level; Detection limit; Determination limit; Less-than level; *SP456, pp. 169-172 (Nov. 1976). SP305-8.*
- Minimum discrimination information; Statistical analysis; Categorical data; Contingency tables; Loglinear model; *14852. SP305-7.*
- Minimum discrimination information estimation; Approximating discrete distributions; Dependence trees; *11359. SP305-2.*
- Minimum discrimination information estimation; Test for symmetry; Contingency table analysis; Homogeneity of marginals; *11541. SP305-2.*
- Minimum gas phase equilibrium concentration; Neon; Neon-methane binary system; Solid-vapor equilibrium; Low-temperature phase-equilibrium; Methane; *9461. SP305.*
- Minimum performance requirements; NILECJ Standard; Receiver definitions; Receiver measurement techniques; FM receivers; Law enforcement equipment; *16293. SP305-8.*
- Minimum performance requirements; NILECJ Standard; Receiver definitions; Receiver measurement techniques; FM receivers; Law enforcement equipment; *16297. SP305-8.*
- Minimum time-to-failure; Proof stress diagrams; Proof testing; Ceramics; Failure probability; *14578. SP305-6.*
- Minimum weight;  $n$ -degree elliptical ring; Nonlinear programming; Nonrandom complex method; Optimization; Rib-stiffened plate; Structural analysis; Curved bar analysis; Discrete variables; Elastic; Force transducer; *J.72C No. 4, 249-258 (1968). SP305-1.*
- Minimum-length coverings; Node-covering; Trees; Helly's theorem; Mathematical induction; *J.76B Nos. 1 and 2, 39-43 (1972). SP305-4.*
- Minimum-norm formulas; Numerical analysis; Numerical integration; Optimal quadrature; Quadrature; Best quadrature; Error functionals; *12599. SP305-4.*
- Mining; Tectonics; Acoustics; Coal; Earthquakes; Geologic faults; *NBS-GCR-73-18. SP305-8.*
- Minority carrier diffusion length; Minority carrier lifetime; Semiconductor characterization; Surface photovoltage; Absorption coefficients; Epitaxial silicon; *13071. SP305-5.*
- Minority carrier lifetime; Semiconductor characterization; Surface photovoltage; Absorption coefficients; Epitaxial silicon; Minority carrier diffusion length; *13071. SP305-5.*
- Minority groups; Performance; Real world; Rehabilitation; Synthesis; System; User needs; User values; Analysis; Cost; Evaluation financing; Housing; Improvements; Individual; Inspection; *SP361, Vol. 1, pp. 345-356. SP305-4.*
- Minors; Non-negative matrices; Permanents; Stochastic matrices; *9609. SP305-1.*
- Minutia; Ridge; System; Automated; Bifurcations; Classification; Descriptor; Endings; Fingerprint; Henry system; Identification; *10273. SP305-1.*
- Mirror; Mo; NaCl; Window; ZnSe; CO<sub>2</sub> laser radiation; Cu; CW laser damage; Grating; Infrared windows; KCl; *SP435, pp. 189-201 (Apr. 1976). SP305-8.*
- Mirror; Nickel; Platinum; Reflection; Absorption; Chromium; Iron; *12910. SP305-4.*
- Mirror; Optical surfacing; Low scatter; *SP387, pp. 64-68. SP305-5.*
- Mirror damage; Pulsed lasers; Window damage; *SP435, pp. 202-206 (Apr. 1976). SP305-8.*
- Mirror damage; Thin films; Laser damage; *SP414, pp. 48-52. SP305-6.*
- Mirrors; Multilayer dielectric coatings; Polarizers; Coating damage; Laser damage; *SP435, pp. 298-304 (Apr. 1976). SP305-8.*
- Mirrors; Reflectance; Reflectance standards; Spectra reflectance; Spectral specular reflectance; Specular reflectance; Standards; Ultraviolet reflectance; Aluminum Gold; Infrared reflectance; Interferometer; *SP260-38. SP305-4.*
- Mirror-size; Strength; Fracture; Fracture pattern; Glass; *9837. SP305-1.*
- Misaligned stator; Rotary-vane attenuator; Attenuator; Attenuation difference; Attenuation error; *10254. SP305-1.*
- Misalignment; Test fixtures; Axial loading; Fatigue machine *TN480. SP305-1.*
- Miscibility gaps; Sodium-silicate binary; Thermodynamics; Alkali-silicates; Glass; Immiscibility; Lithium-silicate binary Melts; *14306. SP305-6.*
- Misfit strain; Precipitation hardening; Activation energy; Cross slip; Mechanical properties; *SP317, pp. 1115-1134. SP305-3.*
- Mishap; Misuse; Product defect; Safety standards; Swing set Test method; Component; Criteria; Development; Equipment; Hazard; Hazardousness; Home playground; Identification; *14597. SP305-6.*
- Mismatch; Network analyzer; Noise; Pulse generator; Pulse measurement; Sampling oscilloscope; Scattering parameter; Spectral analysis; Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Jitter; Microwave measurement; *TN672. SP305-7.*
- Mismatch; Power equation; Power measurement; Calibration Connectors; *J.75C No. 2, 89-93 (1971). SP305-3.*
- Mismatch; Power measurement; Microwave measurement *10929. SP305-2.*
- Mismatch; Reflector posts; Waveguide; Controlled small reflections; *J.72C No. 3, 197-201 (1968). SP305-1.*
- Mismatch considerations; Amplifier noise performance; *1583. SP305-8.*
- Mismatch error; Attenuation; Impedance; Microwave power *12236. SP305-3.*

- Mismatch error; Mismatch uncertainty; Noise figure; Amplifier noise; Effective input noise temperature; *TN640*. **SP305-5.**
- Mismatch error; Noise temperature measurement; Compensation method; Cryogenic noise generators; *12182*. **SP305-3.**
- Mismatch error; Picosecond rise-time pulse evaluation; Power measurement; Pulse-rise-time standardization; Sampling oscilloscope standardization; Spectrum analyzer standardization; Termination mismatch error elimination; Thin-film bolometers; *Monogr. 123*. **SP305-4.**
- Mismatch error; Power measurement; Power meter; Substitution error; Bolometer mount efficiency; *10038*. **SP305-1.**
- Mismatch error; Realizability; 2-ports; Attenuation; Microwave; *10829*. **SP305-1.**
- Mismatch errors; Phase shift-measurement; Power measurement; Reflectometers; Waveguide joints; Waveguide theory; Attenuation definitions; Attenuation measurement; Barretter mount efficiency; Coaxial connectors; Impedance measurement; *Monogr. 137*. **SP305-5.**
- Mismatch errors; Rayleigh distance; Standard gain horns; Antennas; Calibration; Comparison; Effective aperture; Electromagnetic horns; Gain; Measurement; Microwave; *TN351*. **SP305.**
- Mismatch uncertainty; Noise figure; Amplifier noise; Effective input noise temperature; Mismatch error; *TN640*. **SP305-5.**
- mismatched generators; Noise; Effective temperature; Measurement; *11177*. **SP305-2.**
- Mismatching; Stress wave interactions; Substrates; Tearing; Vibratory apparatus; Adhesion; Cavitation; Coatings; Design charts; Elastomers; Erosion; Hopkinson pressure bar apparatus; Impedances; *SP452*, pp. 120-123 (Sept. 1976). **SP305-8.**
- Missiles; Nuclear engineering; Structural engineering; Torpedoes; Wind; *NBSIR 76-1050*. **SP305-8.**
- Missiles; Rocket-fuel tanks; Compatibility tests; Electrolytic protection; Hydrazine; Maraging steel; Metallic coatings; *11934*. **SP305-3.**
- Missiles and rockets; Pressurization; Radiation heat transfer; Spacecraft tankage; Stratification; Supercritical storage; Two-phase flow; Zero gravity; Boiling heat transfer; Bubble dynamics; Cavitation; Condensing heat transfer; Correlations; *13242*. **SP305-5.**
- Misuse; Product defect; Safety standards; Swing set; Test method; Component; Criteria; Development; Equipment; Hazard; Hazardousness; Home playground; Identification; Mishap; *14597*. **SP305-6.**
- Mix; edge; Optical constants; Oscillator; Strengths; Sum rules; Vacuum ultraviolet; Electron energy losses; Germanium; *11367*. **SP305-2.**
- Mixed acids;  $(\text{HCl} + 3\text{HF})_{\text{aq}}$ ; heat of formation; Reaction calorimetry; Reaction with hydrogen; Bond energy  $(\text{Cl}-\text{F})$ ; Chlorine reaction with hydrogen; Chlorine trifluoride, heat of formation; *J74A No. 6*, 769-779 (1970). **SP305-2.**
- Mixed ceria; Conductivity; Doped ceria; High temperature; MHD electrodes; *15057*. **SP305-7.**
- Mixed compounds; Semiconductors; Superconductivity; Titanates; Ceramic; Ferroelectric; *9726*. **SP305-1.**
- Mixed convection; Nucleate boiling; Subcritical; Supercritical; Transition; Turbulent flow; Buoyancy; Channels; Film boiling; Forced convection; Helium I; Helium II; *TN675*. **SP305-8.**
- Mixed halides; Sublimation;  $\text{AlCl}_3$ ;  $\text{AlF}_3$ ; Dimerization correction; Entrainment method; Heat of reaction; *11027*. **SP305-2.**
- Mixed initial boundary; Outgoing data; Partial differential equations; Hyperbolic system; *11026*. **SP305-2.**
- Mixed metal oxides; Mössbauer effect; Oxygen vacancies; Perovskite; Semiconductivity;  $\text{SrFe}_2\text{Mn}_{1-x}\text{O}_{3-y}$ ; Antiferromagnetism;  $\text{CaFe}_2\text{Mn}_{1-x}\text{O}_{3-y}$ ; Defect structure; *SP364*, pp. 265-273. **SP305-4.**
- Mixed oxides; Oxygen reduction; Phosphoric acid; Ternary metal-sulfur arrays; Transition elements; Triphenylphosphine; Tungsten bronze; Electrocatalysis; Fuel cells; *NBSIR 75-742*. **SP305-8.**
- Mixed oxides; Specific heat; Thermodynamic properties; Beryllium aluminate; Chrysoberyl; drop calorimetry; Enthalpy measurements; High-temperature calorimetry; *J71A2-438*, 89-95 (1967). **SP305.**
- Mixed oxides; Specific heat; Thermodynamic properties; Beryllium aluminate (1:3); Drop calorimetry; Enthalpy measurements; High-temperature calorimetry; *J71A2-439*, 97-103 (1967). **SP305.**
- Mixed radio nuclide; Standards; Energy efficiency curves; Gamma ray; *14820*. **SP305-7.**
- Mixed salt solutions; Osmotic coefficients; Potassium chloride; Vapor pressure; Activity coefficient; Calcium chloride; Isopiestic measurements; *J72A No. 3*, 239-245 (1968). **SP305-1.**
- Mixed salt solutions; Sodium chloride; Vapor pressure of aqueous solutions; Calcium chloride; Isopiestic measurements; *J70A4-406*, 313-318 (1966). **SP305.**
- Mixed solutions; Activity coefficients; Isopiestic measurements; Vapor pressure; Calcium chloride; *J70A4-405*, 305-311 (1966). **SP305.**
- Mixed solutions; Nonelectrolytes; Solvation; Sucrose solutions; Hydration; *9512*. **SP305.**
- Mixed solvents; *m*-nitroaniline; Tetrahydrofuran; Dissociation constant; Ionization constant; *J74A No. 4*, 495-497 (1970). **SP305-2.**
- Mixed solvents; Piperazine; PK; Thermodynamics; Dissociation constant; Ionization constant; Methanol; *J74A No. 5*, 667-671 (1970). **SP305-2.**
- Mixed solvents; Solvation of ions; Solvent effect; Transfer energy; Acidity; Medium effects; *10827*. **SP305-1.**
- Mixed titanate; Phase transition; Semiconductor;  $\text{SrTiO}_3$ ; Semiconductor; Electronic band structure; Heat capacity; *10330*. **SP305-1.**
- Mixed titanates; Semiconductors;  $\text{SrTiO}_3$ ; Superconductivity;  $\text{BaSrTiO}_3$ ;  $\text{CaSrTiO}_3$ ; Ceramics; Magnetization; *10235*. **SP305-1.**
- Mixed valence; Mössbauer spectra; Optical; Biferrocenylene; Delocalization; Intramolecular exchange; Magnetic susceptibility; *16049*. **SP305-8.**
- Mixers; Neutrons; Radiation hardness; Receivers; Schottky-barrier diodes; Semiconductors; Solid-state devices; X-band measurements; Diodes; Gamma rays; Hardness assurance; Microwave mixer diodes; *SP400-7*. **SP305-8.**
- Mixing; Mixing power; Paddle mixers; Slush hydrogen; Turbine mixers; Heat transfer; Liquid hydrogen; *NBSIR 73-344*. **SP305-6.**
- Mixing; Parametric; Analog; Josephson junction; *13480*. **SP305-5.**
- Mixing by diffusion; Relaxation methods; Diffusion equation; Diffusion of gases; Flow reactor; Gas mixing; *12091*. **SP305-3.**
- Mixing device; Pressure drop; Temperature; Uniformity; Effectiveness; Forced mixing; *BSS27*. **SP305-2.**
- Mixing effectiveness; Square-edged orifice; Temperature measurement; Temperature pattern; Diameter ratio; *BSS12*. **SP305.**
- Mixing power; Paddle mixers; Slush hydrogen; Turbine mixers; Heat transfer; Liquid hydrogen; Mixing; *NBSIR 73-344*. **SP305-6.**
- Mixing ratio; Moist gas; Psychrometer; Vapor pressure; Adiabatic saturation; Dew point temperature; Humidity; Hygrometer; *J75C No. 2*, 69-78 (1971). **SP305-3.**
- Mixing ratio; Moist gas; Psychrometer; Psychrometric factor; Saturation; Thermodynamic wet-bulb temperature; Vapor content; Wet-bulb; Adiabatic saturation; Gas mixtures; Humidity; Hygrometer; *J72C No. 1*, 33-47 (1968). **SP305-1.**

- Mixture; Liquid; Nitroethane; Sedimentation; Critical point; Critical solution point; Densimeter, magnetic; Diffusion, pressure; Gradient, concentration; Gradient, density; Gravity, effects of; 3-methylpentane; 14944. **SP305-7.**
- Mixture; Ternary solutions; Thermodynamics; Young's mixture rule; Electrolytes; Excess thermodynamic properties of mixtures; 14515. **SP305-6.**
- Mixture adsorption; Nitrogen; Adsorption; Charcoal; Hydrogen; Isotherms; Methane; 10759. **SP305-1.**
- Mixture adsorption; Nitrogen methane; Breakthrough time; Helium; 12160. **SP305-3.**
- Mixture, binary; Mixture, liquid; Nitroethane; Thermal expansion; 3-methylpentane; Consolute point; Critical exponent  $\alpha$ ; Critical phenomena; Critical solution point; Density; Gravity effects; 15691. **SP305-7.**
- Mixture, binary; Solution, solid; Argon; Calorimetry; Critical phenomena; Heat capacity; Methane; 13161. **SP305-5.**
- Mixture, binary solid; Crystal structure; Krypton; Methane; 13265. **SP305-5.**
- Mixture designs; Analysis of variance; Block designs; Design of experiments; Factorial designs; Interlaboratory tests; 14437. **SP305-6.**
- Mixture, liquid; Nitroethane; Thermal expansion; 3-methylpentane; Consolute point; Critical exponent  $\alpha$ ; Critical phenomena; Critical solution point; Density; Gravity effects; 15691. **SP305-7.**
- Mixture rule; X-ray attenuation; Absorption fine structure; 10899. **SP305-2.**
- Mixtures; Corresponding states; Cryogenic gases; Generalized inversion curve; Joule-Thomson coefficient; 9456. **SP305.**
- Mixtures; Cryogenics; Dilution refrigerator; Heat exchangers; Helium-3; Helium-4; Liquid helium; 12783. **SP305-4.**
- Mixtures; Molecular weight distribution; Monodisperse poly- $\alpha$ -methylstyrene; Thermal degradation; 15543. **SP305-7.**
- Mixtures; Nitrogen; Propane; Butanes; Clausius-Mossotti function; Density; Dielectric constant; Ethane; Interpolation function; LNG components; Methane; 14164. **SP305-6.**
- Mixtures; Osmotic pressure; Quantum fluid; Specific heat; Thermodynamic properties; Cryogenics; Dilution refrigerator; Enthalpy; Entropy; Fermi-Dirac gas; Helium-3; Helium-4; Liquid; TN362. **SP305.**
- Mixtures; Quantum fluid; Thermodynamic properties; Cryogenics; Dilution refrigerator; Fermi-Dirac statistics; Heat exchangers; Helium-3; Helium-4; Liquid helium; 12553. **SP305-4.**
- Mixtures; Quantum fluid; Thermodynamic properties; Cryogenics; Dilution refrigerator; Fermi-Dirac statistics; Heat exchangers; Helium-3; Helium-4; Liquid helium; 11981. **SP305-3.**
- Mixtures; Reactions; Representations; Screens; Structures; Topological codes; Chemistry; Compounds; Computer; File organization; HAYSTAQ; Hayward; Information retrieval; Linear notation; Markush; 10363. **SP305-1.**
- Mixtures; Refrigeration; Demagnetization; Dilution refrigerator; Helium 3; Helium 4; Liquid helium; 16655. **SP305-8.**
- Mixtures; Thermodynamic; Density; Dielectric constant; Electromagnetic properties; Equation of state; Ethane; Hydrocarbon; Liquefied natural gas; Measurements; Methane; 16631. **SP305-8.**
- Mixtures; Thermodynamic properties; Air; Gases; High density; 16455. **SP305-8.**
- M-LiTa<sub>2</sub>O<sub>6</sub>; Wodginite; Crystal structure; Lithium tantalate; 15974. **SP305-8.**
- Mössbauer; Biferrocenylene (2,3) picrate; Magnetic susceptibility; 13921. **SP305-6.**
- Mössbauer; Multiplex; Spectroscopy; Dual spectra; 10423. **SP305-1.**
- Mössbauer; Nickel; Copper; Invar effect; Iron; Magnetism; 11459. **SP305-2.**
- Mössbauer; NQR; Nuclear quadrupole coupling; Organotin; Organometallic; 14816. **SP305-7.**
- Mössbauer; Nuclear electric quadrupole moments; Nuclear magnetic dipole moments; JPCRD 5, No. 4, 1093-1122 (1976). **SP305-8.**
- Mössbauer; Optical spectra; Oxygen; Reaction mechanisms; Ring-disk electrodes; Electroanalysis; Electronic structure; Hydrogen peroxide; Iron phthalocyanines; SP455, pp. 241-251 (Nov. 1976). **SP305-8.**
- Mössbauer; Palladium alloys; Sn<sup>119m</sup> source; Solid solution; Tin; Intermetallic; 11659. **SP305-2.**
- Mössbauer; Phase diagram; TiFeH<sub>2</sub> alloys; Volume effects; Charge flow; Isomer; 16597. **SP305-8.**
- Mössbauer; Quantitative analysis; Source-sample-detector geometry; Tin compounds; Use of filters; High resolution detector; 11420. **SP305-2.**
- Mössbauer; Retained austenite; Standard sample; Steel; Electron conversion; 12902. **SP305-4.**
- Mössbauer; Retained austenite; Standard sample; Steel; Electron conversion; 14486. **SP305-6.**
- Mössbauer; Sb; YIG; Ferrites; Hyperfine fields; 14459. **SP305-6.**
- Mössbauer; Spectrometer; Structural analysis; Materials; 11655. **SP305-2.**
- Mössbauer; Stainless steel; Welding; Backscattering; Casting; Ferrite; 14192. **SP305-6.**
- Mössbauer; <sup>57</sup>Fe; <sup>161</sup>Dy; Amorphous; Magnetization; Metal; 16403. **SP305-8.**
- Mössbauer effect; Magnetism; Alloys; Copper; Nickel; Iron; Gold; TN463. **SP305-1.**
- Mössbauer Effect; Nb; Alloys; Magnetism; Mo; 12220. **SP305-3.**
- Mössbauer effect; Ni; Alloys; Clustering; Cold work; Cu; Fe; Magnetic moments; 11838. **SP305-3.**
- Mössbauer effect; Ni; Alloys; Cu; Fe; Metallurgy; 11671. **SP305-2.**
- Mössbauer effect; Ni; Alloys; Cu; Fe; Magnetism; Moments; 11490. **SP305-2.**
- Mössbauer effect; Ni; Sb; Pd; Alloys; Cu; Hyperfine fields; Magnetism; Mn; 15016. **SP305-7.**
- Mössbauer effect; Nickel; Alloys; Clustering; Copper; Iron; Local moments; 12199. **SP305-3.**
- Mössbauer effect; Nickel; Alloys; Copper; Iron; Local moments; Magnetism; 10612. **SP305-1.**
- Mössbauer effect; Nickel; Alloys; Copper; Critical temperatures; Iron; Magnetism; 14073. **SP305-6.**
- Mössbauer effect; Nickel; Copper; Corrosion; D-electron; Iron; Magnetic moment; 10440. **SP305-1.**
- Mössbauer effect; Nickel; Valency; Antimony; Ferrites; Hyperfine fields; Iron; 14320. **SP305-6.**
- Mössbauer effect; Niobium; Alloys; Iron; Magnetic moments; Molybdenum; 14487. **SP305-6.**
- Mössbauer effect; Nuclear magnetic resonance; Co; Fe; Intermetallic compounds; Internal oxidation; Line structure; 10611. **SP305-1.**
- Mössbauer effect; Nuclear magnetic resonance; Nuclear magnetism; Nuclear specific heat; Perturbed angular correlation; Magnetic materials; 10836. **SP305-1.**
- Mössbauer effect; Nuclear magnetic resonance; Pure quadrupole resonance; Experimental techniques; Ferromagnetic nuclear resonance; Metallurgy; 13837. **SP305-6.**
- Mössbauer effect; Numerical analysis; FORTRAN; Least squares fitting; 14285. **SP305-6.**
- Mössbauer effect; Order-disorder; <sup>121</sup>Sb; Alloys; Hyperfine fields; 12865. **SP305-4.**
- Mössbauer effect; Oxygen vacancies; Perovskite; Semiconductor; SrFe<sub>2</sub>Mn<sub>1-x</sub>O<sub>5-x</sub>; Antiferromagnetism; CaFe<sub>2</sub>Mn<sub>1-x</sub>O<sub>5-x</sub>; Defect structure; Mixed metal oxides; SP364, pp. 265-273. **SP305-4.**



Mössbauer effect; Palladium, tin; Alloys; Antimony; Hyperfine fields; Manganese; 13495. SP305-5.

Mössbauer effect; Pd; Sb; Alloys; Hyperfine field; Mn; 13326. SP305-5.

Mössbauer effect; Perturbed angular correlation; Cu-Ni-Fe alloys; Hyperfine fields; 13033. SP305-4.

Mössbauer effect; Precipitation; Alloys; Copper; Crystallography; Iron; 12866. SP305-4.

Mössbauer effect; Raney-iron-activation; Catalysis; 16273. SP305-8.

Mössbauer Effect; Recoilless fraction; Antimony; Ferrites; Hyperfine fields; Iron; Isomer shift; Lithium; 12205. SP305-3.

Mössbauer effect; Scattering; Steel; Surfaces; Cobalt; Grinding; 14451. SP305-6.

Mössbauer effect; Sodium nitroprusside; TiFe; Calibration; Chemical shift; Iron; Knight shift; *J.74A No. 5*, 691-697 (1970). SP305-2.

Mössbauer Effect; Spectrometer; Standards; Aerospace; Applications; Materials structure analysis; 9672. SP305-1.

Mössbauer effect; Spectrometry; Instrumentation; Iron; Low temperature; Magnetic field; 11151. SP305-2.

Mössbauer effect; Superconductivity; Titanium; Alloys; Cobalt; Ferromagnetism; Hyperfine fields; Iron; Moments; 9576. SP305-1.

Mössbauer effect; Zirconium; Alloys; Cobalt; Hyperfine fields; Iron; 10610. SP305-1.

Mössbauer instrumentation; Mössbauer spectrometry, NBS Linac; Nickel-61; Nuclear recoil; Overflow counter; Photonuclear reactions; Proportional counter; Quantitative Mössbauer spectrometry; Standard reference materials; *TN451*. SP305-1.

Mössbauer spectra; Backscattering measurements; Fe-57 Mössbauer spectra; 16387. SP305-8.

Mössbauer spectra; Optical; Biferrocenylene; Delocalization; Intramolecular exchange; Magnetic susceptibility; Mixed valence; 16049. SP305-8.

Mössbauer spectra; Phosphate glass; Aluminophosphate glass; Fe<sup>27</sup>; Glass; Iron; 13315. SP305-5.

Mössbauer spectra; Retained austenite; Singlet center peak; X-rays; 10105 steel; Chemical shift; Hyperfine peaks; 10873. SP305-2.

Mössbauer spectra; Zinc; Alloys; Aluminum; Catalysis; Hydrogenation; Iron; 16537. SP305-8.

Mössbauer spectrometer; Mössbauer spectrometry; Nickel-61; Proportional detector; Radiochemistry; Radioisotope dilution; Rutile; Self-consistent crystal field; Standard reference materials; Structure analysis; Calculations; *TN501*. SP305-2.

Mössbauer spectrometry; Nickel-61; Proportional detector; Radiochemistry; Radioisotope dilution; Rutile; Self-consistent crystal field; Standard reference materials; Structure analysis; Calculations; Conversion electrons; Counting statistics; *TN501*. SP305-2.

Mössbauer spectrometry; Nuclear parameters; Recent advances; Tables; Theory; Chemical applications; Instrumentation; 16332. SP305-8.

Mössbauer spectrometry; Nuclear resonance; Materials characterization; 14818. SP305-7.

Mössbauer spectrometry; Quantitative analysis; Stannic oxide; Tin ores; 15358. SP305-7.

Mössbauer spectrometry; Spectrometry-Mössbauer; Standard reference materials; Iron and its compounds; 10084. SP305-1.

Mössbauer spectrometry; Stannic oxide; Alloys; Analysis; Internal standard; 11978. SP305-3.

Mössbauer spectrometry, NBS Linac; Nickel-61; Nuclear recoil; Overflow counter; Photonuclear reactions; Proportional counter; Quantitative Mössbauer spectrometry; Standard reference materials; Backscatter geometry; *TN451*. SP305-1.

Mössbauer spectroscopy; Beta-tin; Internal standardization; 13755. SP305-5.

Mössbauer spectroscopy; Chemistry; 10402. SP305-1.

Mössbauer spectroscopy; Mössbauer spectrum parameters; Quadrupole splitting; Structural analysis; Chemical shift; Magnetic hyperfine splitting; 10435. SP305-1.

Mössbauer spectroscopy; M<sub>2</sub>FeDTPA; Photodecomposition; Preparation; Thermogravimetric analysis; Coordination; Infrared spectroscopy; Magnetic susceptibility; 10556. SP305-1.

Mössbauer spectroscopy; Nuclear magnetic resonance; Organotin compounds; Relationship; 11395. SP305-2.

Mössbauer spectroscopy; Palladium matrix; Spectroscopy; Isomeric state nuclide; 10752. SP305-1.

Mössbauer spectroscopy; Photodecomposition; Thermogravimetric analysis; Coordination studies; Hydrogen aquoethylenediaminetetraacetatoferrate (III) infrared spectroscopy; Magnetic susceptibility; MFe(OH<sub>2</sub>)EDTA·nH<sub>2</sub>O; 10606. SP305-1.

Mössbauer spectroscopy; Porous glass; Fluorescence; 15115. SP305-7.

Mössbauer spectroscopy; Quadrupole splitting; Interpretation of chemical shift; Iron coordination chemistry; 10791. SP305-1.

Mössbauer spectroscopy; Quadrupole splitting; Temperature dependence; Diffusion; Doping; Fe-57; Iron-doped; Lattice distortion; 15332. SP305-7.

Mössbauer spectroscopy; Resonant detector; Conversion electrons; Iron; *TN541*. SP305-3.

Mössbauer Spectroscopy; Review; Chemical applications; Literature; 12147. SP305-3.

Mössbauer spectroscopy; Review; Chemical applications; Literature; 10537. SP305-1.

Mössbauer spectroscopy; Silicate gels; Silicate synthesis; X-ray powder data; Akermanite; Crystal chemistry; Crystal growth; Cupric silicate; Flux growth; Iron polyhedron distortion; Melilit; *J.73A No. 1*, 69-74 (1969). SP305-1.

Mössbauer spectroscopy; Tin chemistry; Chemical shift; 10436. SP305-1.

Mössbauer spectroscopy; 14.4 keV; Absorber mounting devices; Absorption coefficients; Gamma-rays and x-rays; Half-thickness; 10401. SP305-1.

Mössbauer spectrum parameters; Quadrupole splitting; Structural analysis; Chemical shift; Magnetic hyperfine splitting; Mössbauer spectroscopy; 10435. SP305-1.

M-matrix; Oscillator; Positive definite; Principal minor; Routh-Hurwitz conditions; Sign stable; Sign symmetric; Stability; Tridiagonal; Diagonally dominant; Diagonal matrix; D-stability; Gersgorin's theorem; Lyapunov's theorem; 14782. SP305-7.

M-matrix; Principal minors; Stable matrix; *J.78B No. 3*, 103-104 (1974). SP305-6.

Mm-waves; Reflection coefficient measurement; Tuners; Tuning circuit; Impedance measurement; Microwaves; 12229. SP305-3.

Mn; Mössbauer effect; Ni; Sb; Pd; Alloys; Cu; Hyperfine fields; Magnetism; 15016. SP305-7.

Mn; Mössbauer effect; Pd; Sb; Alloys; Hyperfine field; 13326. SP305-5.

Mn; NBS Standard Reference Material 671; Nickel oxide; Paper chromatography; Radiometric methods; Analysis; Co; Cu; Fe; 9875. SP305-1.

Mn i configurations (3d + 4s)<sup>4</sup>p; Energy levels Mn i; g-factors Mn i; Interactions between configurations Mn i; Manganese spectrum; *J.74A No. 4*, 507-520 (1970). SP305-2.

MnCl<sub>2</sub>; Molecular orbitals; NiCl<sub>2</sub>; Transition-metal reactions; Ultraviolet spectrum; Cl<sub>2</sub> reactions; CoCl<sub>2</sub>; CrCl<sub>3</sub>; Emission spectrum; FeCl<sub>2</sub>; Infrared spectrum; Matrix isolation; 11340. SP305-2.

- Mnmemotechnics; Semantics; Specificity; Experimental conditions; Imprecision; Information system design; Levels of abstraction; *11153. SP305-2.*
- MnF<sub>2</sub>; Phonon frequency shift; RbMnF<sub>3</sub>; Acoustic phonons; Antiferromagnet; Attenuation; EuO; Ferromagnet; Magnetic insulators; *11489. SP305-2.*
- MnF<sub>2</sub>; RbMnF<sub>3</sub>; Ultrasonic attenuation; Antiferromagnet; Critical fluctuations; Ferromagnet; Gd; Heisenberg magnet; *11253. SP305-2.*
- m-nitroaniline; Tetrahydrofuran; Dissociation constant; Ionization constant; Mixed solvents; *J74A No. 4, 495-497 (1970). SP305-2.*
- m-nitrophenol; Nonaqueous solvents; Phenols; Thermodynamics; Dissociation; Electrolytes; Methanol; *J71A1-430, 9-12 (1967). SP305.*
- Mn(n,γ); Neutron capture gamma-rays; <sup>4</sup>Li filter; <sup>154</sup>Gd(n,γ); <sup>156</sup>Gd(n,γ); Iron filter; *SP425, pp. 912-915. SP305-7.*
- Mo; Mössbauer Effect; Nb; Alloys; Magnetism; *12220. SP305-3.*
- Mo; NaCl; Window; ZnSe; CO<sub>2</sub> laser radiation; Cu; CW laser damage; Grating; Infrared windows; KCl; Mirror; *SP435, pp. 189-201 (Apr. 1976). SP305-8.*
- Mo; Ta; Binding energies; Cl<sup>-</sup>; Desorption lifetimes; I<sup>-</sup>; *11446. SP305-2.*
- MOBIDIC-B; Teleprocessing system; Computer; *14121. SP305-6.*
- Mobile; Standard; Transceiver; Antenna; Communications; Law enforcement; *14552. SP305-6.*
- Mobile antenna; Mobile transceiver; Transmission; Cable assembly; Coaxial cable; Insertion loss; *16294. SP305-8.*
- Mobile digital equipment; National Institute of Law Enforcement and Criminal Justice; Communications; Digital communications; Guideline; Law enforcement equipment report, Law Enforcement Standards Laboratory; *16190. SP305-8.*
- Mobile dislocation density; Aluminum; Dislocation velocity; *12690. SP305-4.*
- Mobile dislocation density; Peierls stress; Alloy softening; Elastic; Electronic; Fe-N alloys; Fe-Ni alloys; Flow stress; Lower yield stress; *11574. SP305-2.*
- Mobile dislocations, stress rates; Dislocation kinetics; *SP317, pp. 1099-1106. SP305-3.*
- Mobile home; Fire test; Flame spread; Kitchen cabinets; Kitchen range; Kitchen range hood; Limited combustibility; *NBSIR 75-788. SP305-8.*
- Mobile home; Seismic; Standards; Structural engineering; Bridge; Building; Codes; Dams; Earthquake damage; Earthquakes; Foundation geology; Highways; Hospital; Housing; *B5540. SP305-3.*
- Mobile home parks; Mobile homes; Performance data; Standards; Computer techniques; Enforcement process; Housing; Hurricane Agnes; *NBSIR 75-690. SP305-7.*
- Mobile home parks; Mobile homes; Performance data; Regulatory process; Standards; Computer techniques; Construction; Enforcement process; Housing; Hurricane Agnes; *NBSIR 76-1058. SP305-8.*
- Mobile home parks; Performance data; Regulatory process; Standards; Construction; Hurricane Agnes; Housing; Mobile homes; *NBSIR 75-641. SP305-7.*
- Mobile home tightness; Sulfur hexafluoride tracer measurement; Air infiltration measurement; Air leakage measurement; *NBSIR 76-1063. SP305-8.*
- Mobile homes; Mobile home parks; Performance data; Regulatory process; Standards; Construction; Hurricane Agnes; Housing; *NBSIR 75-641. SP305-7.*
- Mobile homes; Model documents; State-of-art study; Building regulation; Evaluation; Inspection; Manufactured building; *TN775. SP305-5.*
- Mobile homes; Modular construction; Prefabrication; Zoning; Building codes; Building laws and regulations; Building materials—testing and evaluation; Building systems; Industrialized housing; *NBS-GCR-73-19. SP305-8.*
- Mobile homes; NCSBCS; ASHRAE 90-P; Building codes; *SP429. SP305-7.*
- Mobile homes; Performance data; Regulatory process; Standards; Computer techniques; Construction; Enforcement process; Housing; Hurricane Agnes; Mobile home parks; *NBSIR 76-1058. SP305-8.*
- Mobile homes; Performance data; Standards; Enforcement process; Field inspection; House trailers; Housing; Hurricane Agnes; *NBSIR 75-688. SP305-7.*
- Mobile homes; Performance data; Standards; Computer techniques; Enforcement process; Housing; Hurricane Agnes; Mobile home parks; *NBSIR 75-690. SP305-7.*
- Mobile homes; Phase diagrams; Tire pressure; Air; Building codes; Computer tapes; Energy; Fire; Helmets; *DIM/NBS 60, No. 12, 1-24 (1976). SP305-8.*
- Mobile homes; Photoelectric smoke detectors; Smoke detector installation; Smoke detector placement; Smoke detectors; Detector sensitivity; Fire detectors; *NBSIR 76-1016. SP305-8.*
- Mobile homes; Regulation; Standards; State-of-the-art study; Enforcement; Legislation; *NBSIR 75-680. SP305-7.*
- Mobile homes; Roofs; Structural engineering; Wind load; Anchorage; Building performance; Glazing; Hailstones; Masonry; *TN558. SP305-3.*
- Mobile homes; Roofs; Structural engineering; Tides; Wind; Buildings; Failure; Hurricanes; *TN569. SP305-3.*
- Mobile homes; Rules and regulations; State-of-the-art study; Building regulation; Enforcement; Evaluation; Inspection; Legislation; Manufactured building; *TN853. SP305-6.*
- Mobile laboratory; Radiation calibrations; Radiation control; Radiation measurement assurance; Radiation standards; *SP456, pp. 47-51 (Nov. 1976). SP305-8.*
- Mobile radio; Police; Police equipment; Portable radio; Standards; Communications; *NBSIR 73-211. SP305-6.*
- Mobile telecommunication transmitters; RF radiation; Antenna specifications; *SP456, pp. 199-202 (Nov. 1976). SP305-8.*
- Mobile transceiver; Performance standard; Transceiver; Transmitter; Communications; Law enforcement; *14922. SP305-7.*
- Mobile transceiver; Transmission; Cable assembly; Coaxial cable; Insertion loss; Mobile antenna; *16294. SP305-8.*
- Mobile water; NMR; Adsorbed water; Calorimetry; Collagen; Frozen collagen; *11998. SP305-3.*
- Mobilities; Neon; Rates; Reaction; Ion; *10622. SP305-1.*
- Mobility; MOS devices; Oxide films; Photomasks; Photoresist; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; S-parameters; Spreading resistance; *SP400-1. SP305-6.*
- Mobility; MOS devices; Oxide films; Photomasks; Photoresist; Platinum wire resistivity; Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; *SP400-4. SP305-6.*
- Mobility; Pull test; Recombination centers; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Spreading resistance; Thermal resistance; *TN806. SP305-5.*
- Mobility; Quasifree electrons; Solvated electrons; Conductivity band; Drift mobility; Energy levels; Excess electrons; Hydrocarbons; Ion mobility; Liquids; *NSRDS-NBS58. SP305-8.*
- Modal choice; Systems analysis; Transportation planning; Travel forecasting; Urban transportation; *10429. SP305-1.*
- Mode choice; Pollution reduction; Bus transit; Busways; Campuses; Energy impacts; *15724. SP305-8.*

- Mode choice decisions; Park-and-ride; Shirley Highway; Transportation planning; Bus-on-freeway operations; Commuter surveys; *NBSIR 75-689. SP305-7.*
- Model filters; Negative current feedback; Waveguide-below-cutoff attenuator; High-power impedance matching; *12890. SP305-4.*
- Mode of failure; Reliability; Structural failures; Deterioration; Failure; Limit states design; *14106. SP305-6.*
- Mode shape; Probability theory; Wind loads; Buildings; Dynamics; Gust factor; *BSS30, pp. 93-104. SP305-3.*
- Mode shape; Probability theory; Wind loads; Buildings; Dynamics; Gust loads; Matrix analysis; *BSS30, pp. 145-149. SP305-3.*
- Mode switching; Photo detectors; Semiconductor lasers; Cryogenic cooler; Light emitters; *9838. SP305-1.*
- Model; Monitor; Dialogue; Interaction; Man-computer; Measure; *14088. SP305-6.*
- Model; Neutral; Perception; Vision; Achromatic; Appearance; Brightness; Chromatic adaptation; Chromaticity; Color; Least squares; Luminance; *11813. SP305-3.*
- Model; Noise; Statistical; Flicker; *9553. SP305-1.*
- Model; Planar; Propagation function; Pulse; Receiving end; Skin effect; Step response; Time domain; Voltage divider; Asymptotic expansion; Characteristic impedance; Coaxial line; Complimentary error function; Conductor; Cylindrical; Dielectric; Error; Generator; Lossy; *14347. SP305-6.*
- Model; Point defects; Annealing; Calcium fluoride; Defect pairs; Equilibria; *15820. SP305-8.*
- Model; Policies; Queuing model; Scheduling; Simulation; Systems; Administration; Health; Hospital; Managerial applications; *12803. SP305-4.*
- Model; Rheology; Measurements; *11757. SP305-2.*
- Model; Specifications; Structure; Theory; Wind; Bridge; Design; Field data; Gust response; *SP444, pp. 1-1—1-20 (Apr. 1976). SP305-8.*
- Model; Thermodynamics; Energy; Heating systems; *SP403, pp. 57-64 (June 1976). SP305-8.*
- Model; Transform analysis; Automobile; Economic; Energy; *SP403, pp. 65-74 (June 1976). SP305-8.*
- Model ages; Nickel; Potassium; Rubidium; Strontium; Thorium; Uranium; Chromium; Isotopic ratios; Lead; *13932. SP305-6.*
- Model airplanes; Noise; Toys; Bicycle attachments; Children; Consumer safety; *NBSIR 75-693. SP305-7.*
- Model atmospheres; Radiative transfer; Spectral line formation; Spherical geometry; Early-type stars; *13688. SP305-5.*
- Model atmospheres; Spherical radiative transfer; Eddington factor; *12241. SP305-3.*
- Model building; Organization; Search and rescue; Simulation; Team development; Coast Guard; Development; Interdisciplinary team; Management science; *12243. SP305-3.*
- Model Code Standardization Council; National Conference of States on Building Codes and Standards; Quality assurance testing; Testing laboratory; Building codes; Building manufacturer; Coordinated Evaluation System; Engineering analysis; *13057. SP305-4.*
- Model codes; Model documents; NCSBCS; On-site construction; Prefabricated construction; Standards; State-local relationship; State regulations; Building codes; Factory-built housing; Industrialized building; Inspection; Manufactured building; *NBS-GCR-74-27. SP305-8.*
- Model documents; NCSBCS; Standards; State regulation; Building codes; Certification; Compliance assurance; Evaluation; Inspection; Manufactured building; *BSS87. SP305-8.*
- Model documents; State-of-art study; Building regulation; Evaluation; Inspection; Manufactured building; Mobile homes; *TN775. SP305-5.*
- Model electronic density of states; Superconductivity; Betastunten; Lattice transformation; *SP323, pp. 767-773. SP305-4.*
- Model experiments; Stress; Stress intensity; Cracks; Experimental mechanics; Fracture; Fracture toughness; Interferometry; *15742. SP305-8.*
- Model filament; Wave propagation; Dashpot model filament; Filaments; Linear model; *10079. SP305-1.*
- Model I; Model II; Random effects; Tests of significance; Analysis of variance; Chi-square distribution, F-distribution; Components of variance; Confidence intervals; Estimation; Fixed effects; *12643. SP305-4.*
- Model II; Random effects; Tests of significance; Analysis of variance; Chi-square distribution, F-distribution; Components of variance; Confidence intervals; Estimation; Fixed effects; Model I; *12643. SP305-4.*
- Model law and regulations; Technical education; U.S. AID; Calibration and testing; Ecuadorian Institute of Standardization (INEN); Field inspections; Mass, length, and volume standards; Metrology laboratory; *13777. SP305-5.*
- Model, mathematical; Response surface; Surface fitting; Two-way tables; Curve fitting; Data analysis; Empirical fitting of curves and surfaces; *11380. SP305-2.*
- Model of clock stability; Optimum time prediction; Precision and accuracy of timing; Time coordination, synchronization, and dissemination; UTC(NBS); AT(NBS); Clock dispersion; Clock ensemble; Frequency and time standards; International Atomic Time; Loran-C; *13998. SP305-6.*
- Model potential of Heine and Abarenkov; Nickel aluminide; Order-disorder; Peierls barriers; Pt-Cu; Silver; tellurium (Ag<sub>2</sub>Te); Ti-Al; TiCo; TiFe; TiNi; Ti<sub>2</sub>Te; Binary alloys; *SP323, pp. 483-492. SP305-4.*
- Model potential theory; Be energy levels; *16608. SP305-8.*
- Model studies; Research summaries; Fluid mechanics; Hydraulic engineering; Hydraulic research; Hydraulics; Hydrodynamics; *SP346. SP305-3.*
- Model studies; Research summaries; Fluid mechanics; Hydraulic engineering; Hydraulic research; Hydraulics; Hydrodynamics; *SP382. SP305-6.*
- Model studies; Research summaries; Fluid mechanics; Hydraulic engineering; Hydraulic research; Hydraulics; Hydrodynamics; *SP443. SP305-8.*
- Model testing; Symmetric triatomic molecules; Centrifugal distortion; Error evaluation; Force fields; Least squares analysis; *12607. SP305-4.*
- Model tests; Culverts; Hydraulics; Inlets; *9243. SP305.*
- Model validation; Runway capacity; Simulation; Airport; Airport capacity; Airport simulation; Models; *15029. SP305-7.*
- Model validation; Runway capacity; Simulation; Validation; Airport; Airport capacity; Airport simulation; Models; *NBSIR 75-783. SP305-7.*
- Model-independent evaluation; Phase shift analysis; Transition radius; Correction factors; Coulomb effects; Electro-excitation; Low momentum transfer; Magnetic transitions; *10910. SP305-2.*
- Modeling; Computer measurement and evaluation; Computer science curriculum; Hardware monitors; *SP406, pp. 159-163. SP305-7.*

- Modeling; Monitoring; Operating systems; Performance objectives; Computer architecture; Computer performance evaluation; Installation management; Measurement; *SP406. SP305-7.*
- Modeling; Multiserver queuing system; Resource locations; Resource utilization; Response system; Simulation; Manning levels; *12949. SP305-4.*
- Modeling; Natural convection; Enclosures; Flow visualization; *11785. SP305-2.*
- Modeling; Natural convection; Enclosures; Flow visualization; *11161. SP305-2.*
- Modeling; Oxidation; Pyrolysis; Combustion; Data base; Energy conservation; Estimation schemes; Kinetics; *NBSIR 75-910. SP305-8.*
- Modeling; Salmon; Salmon fishery; Salmon information system; Washington State Fisheries; Anadromous Fish Catch Record System; Catch record system; Fisheries statistics; Fish record system; Fishery management model; Fishery modeling; *NBSIR 75-796. SP305-7.*
- Modeling; Soils; Structural response; Volcanoes; Wind; Bridges; Buildings; Codes; Disaster; Dynamic analysis; Earthquakes; *SP444. SP305-8.*
- Modelling; Technology; Terminology; Data base; Data integration; Implementation; *16329. SP305-8.*
- Mode-lock; Picosecond; Rhodamine 6 G; DODCI; Dye laser; Laser; *14008. SP305-6.*
- Mode-lock; Picosecond; Rhodamine 6G; DODCI; Dye laser; Laser; *NBSIR 73-347. SP305-6.*
- Mode-locked pulse trains; Avalanche breakdown; Intrinsic damage; *SP435, pp. 362-365 (Apr. 1976). SP305-8.*
- Mode-locking; Subnanosecond pulses; Acousto-optic modulator; Flashlamp-pumped dye laser; *TN603. SP305-3.*
- Models; Decisionmaking; Methods; *14660. SP305-6.*
- Models; Model validation; Runway capacity; Simulation; Airport; Airport capacity; Airport simulation; *15029. SP305-7.*
- Models; Model validation; Runway capacity; Simulation; Validation; Airport; Airport capacity; Airport simulation; *NBSIR 75-783. SP305-7.*
- Models; Nursing homes; Realms; Building fires; Case studies; Critical events; Decisions; Episodes; Fires; Home for the aged; Hospital fires; Human behavior; Institutions; Mapping; *NBS-GCR-76-73. SP305-8.*
- Models; Precision; Precision of measurement; Repeatability; Reproducibility; Test methods; Transformations; Weighting; Interlaboratory comparisons; Invariance; *15909. SP305-8.*
- Models; Simulation; Time scale simulation; Frequency stability; International atomic time; *TN689. SP305-8.*
- Models; Structures; Buckling; Computers; Experimental methods; Instability; *14657. SP305-6.*
- Models; Urban health problems; Childhood diseases; Estimation; Health problems; Lead; Lead paint; Lead paint poisoning; Lead poisoning; Mathematical modeling; *TN746. SP305-4.*
- Models, energy balance, radiation, and scaling; Ceiling radiation; Corridor fires; Critical energy input; Flame spread, calculation, and observations; Floor covering evaluations; Heat balances; Heat transfer mechanisms; *TN794. SP305-5.*
- Models of frequency stability; Picosecond time difference measurements; Accurate frequency measurement; Accurate time measurement; Frequency; Frequency stability; Frequency stability analysis; *TN669. SP305-7.*
- Models of frequency stability; Picosecond time difference measurements; Accurate frequency measurement; Accurate time measurement; Frequency; Frequency stability; Frequency stability analysis; *15740. SP305-8.*
- Modems; Signal processing; Standards; Teletypewriters; Coding; Interfaces; *NBS-GCR-74-30. SP305-8.*
- Modems; Telecommunication; Common carriers; Computer networks; Interfaces; *NBS-GCR-74-31. SP305-8.*
- Modems; Terminals; Throughput; TRIB; Data communications; *TN779. SP305-5.*
- Moderate energy cross section; Pair production; Racah cross section; Total photon cross section; Born approximation; Coulomb field; *J.72B No. 1, 79-88 (1968). SP305-1.*
- Moderately dense gases; Probability densities; Long-time values; *9989. SP305-1.*
- Moderation-jacket in blanket; Thermal boosts; High plutonium productivity; *SP425, pp. 422-425. SP305-7.*
- Moderator; Monte Carlo; Neutrons; Oxygen; Protons, time delay; Time smearing; Deuterium; *13345. SP305-5.*
- Museum; Museum; Primary; Reliability; Renovation; Secondary; System; Variable; Anchor; Controls; Corrosion; Growth; Metering; *B5566, pp. 102-115. SP305-7.*
- Modern technology; Science comprehension; Space age; Metrology; *9203. SP305.*
- Modernized metric system; SI; Weights and measures; International system of units; Measurement systems; Metric system; *SP304, Revised October 1972. SP305-4.*
- Modernized metric system; SI; Weights and measures; International system of units; Measurement systems; Metric system; *SP304A, Revised October 1972. SP305-4.*
- Modernized metric system; SI; Weights and measures; International system of units; Measurement systems; Metric system; *SP304A. SP305-7.*
- Modes of vibration; Molecular vibrational frequencies; Molecular spectra; Raman spectra; Data; Force constants; Infrared spectra; *NSRDS-NBS11. SP305.*
- Modification of collagenous surfaces; Acrylate copolymers; Ceric ion initiated; Grafting collagen; Graft polymerization; *13745. SP305-5.*
- Modification of tooth surfaces; Reactivity of calcified tissues; Adhesion to tooth surfaces; Adsorption on calcified tissues; Bone; Calcified tissues; Dentin; Enamel; *12437. SP305-4.*
- Modified adjacency matrix; Spectrum; Graph isomorphism; Labels; *J. Res. 80B No. 4, 447-483 (1976). SP305-8.*
- Modified Bessel functions; Noise theory; Signal statistics; Trigonometric functions; Bessel functions; Complete elliptic integrals; Hyperbolic function; Infinite integrals; *J.79B Nos. 3 and 4, 137-170 (1975). SP305-7.*
- Modified Bessel functions; Physics; Signal statistics; Applied mathematics; Bessel functions; Complete elliptic integrals; Engineering; Infinite integrals; *J.78B No. 3, 113-135 (1974). SP305-6.*
- Modified Enskog theory; Molecular correlations; Nitrogen; Sound absorption; Argon; Bulk viscosity; Density expansion; Methane; *16483. SP305-8.*
- Modified Enskog theory; Prediction of transport data; Thermal conductivity; Transport first density corrections; Excess transport property; *13234. SP305-5.*
- Modified Enskog theory; Thermal conductivity; Viscosity; Critically evaluated data; Fluorine; Kinetic theory; *J. Phys. Chem., Ref. Data 1, No. 4, 1101-1114 (1972). SP305-6.*
- Modified Enskog theory; Thermal conductivity; Transport properties; Viscosity; Argon; Barker-Henderson perturbation theory; *14775. SP305-7.*
- Modified MIS C(V) measurements; Bias-isolation units; Capacitance measurements at high applied-bias voltage; Capacitance-meter; Extended-range capacitance measurement; High-voltage C(V) measurements; *SP400-34. SP305-8.*
- Modified Monte Carlo; Monte Carlo; Multiple integral; Numerical analysis; Numerical integration; Quadrature; Integral; Integration; *10751. SP305-1.*
- Modified mortars; Compressive strength of clay masonry; Flexural strength of clay masonry; High strength mortars; Improved mortars; Masonry; *11315. SP305-2.*
- Modifiers, network; Oxide systems; Silicates; Borates; Glassformers; Immiscibility; Liquid immiscibility; *9475. SP305.*
- Modular; Multiparameter; On-line; CAMAC; Disc; Minicomputer; *SP425, pp. 97-98. SP305-7.*



- Modular; Nuclear data; On-line; Programs; SDS 920; Digital computer; Experiment; *10138*. SP305-1.
- Modular arithmetic; Congruences; Exact solutions; Linear equations; *J.75B Nos. 1 and 2, 69-75 (1971)*. SP305-3.
- Modular arithmetic; Exact solutions; Hilbert matrices; Linear equations; *J.71B4-240, 171-179 (1967)*. SP305.
- Modular arithmetic; Polynomial; Polynomial real roots; Roots; Sturm theorem; Budan theorem; Exact computation; Integer arithmetic; *J.78B No. 1, 39-43 (1974)*. SP305-6.
- Modular boiler study; NBS-campus energy retrofit; Retrofitting existing buildings; Energy consumption in NYC schools; Energy-saving opportunities; Incentives—educational, persuasive, financial, regulatory; *15882*. SP305-8.
- Modular boilers; Modular concept; Seasonal efficiency; Boiler oversizing; Efficiency vs. heating load; *B5579*. SP305-7.
- Modular boilers; Modular concept; Seasonal efficiency; Boiler oversizing; Efficiency vs. heating load; *15712*. SP305-8.
- Modular computation; Stirling numbers; Binomial coefficients; *J. Res. 80B No. 1, 99-171 (1976)*. SP305-8.
- Modular concept; Seasonal efficiency; Boiler oversizing; Efficiency vs. heating load; Modular boilers; *B5579*. SP305-7.
- Modular concept; Seasonal efficiency; Boiler oversizing; Efficiency vs. heating load; Modular boilers; *15712*. SP305-8.
- Modular construction; Operation BREAKTHROUGH; Steel framing; Steel joist floor; Fire test; Floor assembly; Floor-ceiling assembly; Housing systems; *13397*. SP305-5.
- Modular construction; Operation BREAKTHROUGH; Paper honeycomb; Structural panel; Fire endurance; Fire test; Flame penetration; Glass reinforced plastic; Housing systems; Interdwelling wall; *13407*. SP305-5.
- Modular construction; Operation BREAKTHROUGH; Polyurethane foam; Toxic gases; Fire endurance; Fire test; Housing systems; Interdwelling wall; Load failure; *13411*. SP305-5.
- Modular construction; Operation BREAKTHROUGH; Steel framing; Fire endurance; Fire tests; Housing systems; *13412*. SP305-5.
- Modular construction; Prefabrication; Zoning; Building codes; Building laws and regulations; Building materials—testing and evaluation; Building systems; Industrialized housing; Mobile homes; *NBS-GCR-73-19*. SP305-8.
- Modular coordination; Tolerance; Conventions; Dimensional coordination; Industrialized production; *TN710-1*. SP305-4.
- Modular design; Performance; Veterans' Administration; Architecture; Building systems; Design; Hospital design; Medical facilities; *B5554*, pp. 31-44. SP305-6.
- Modular form; Parametrization of cusp forms; Eisenstein series; Hecke group; H-group; *J.74B No. 3, 131-148 (1970)*. SP305-2.
- Modular form; Partition function; Poincaré series; Dedekind function; *177B Nos. 3 and 4, 81-83 (1973)*. SP305-5.
- Modular form; Riemann surface; Automorphism; Finite field; Genus; Hecke operator; Klein's invariant; Linear transformation; *AMS61*. SP305-1.
- Modular group; Congruence groups; Genus; *9164*. SP305.
- Modular group; Multiplier; Word; Cancellation; Commutator subgroup; *J.72B No. 4, 253-261 (1968)*. SP305-1.
- Modular group; Natural homomorphism; Parabolic classes; Automorphisms; Elliptic classes; Finite fields; Genus; *14972*. SP305-7.
- Modular group; Normal subgroups; Genus; Index; *J.74B No. 2, 121-123 (1970)*. SP305-2.
- Modular group; Normal subgroups; Parabolic classes; Congruence groups; *9375*. SP305.
- Modular group; Parabolic class number; Quotient surface; Split extension; Factor set; Group extension; Level; *9317*. SP305.
- Modular group; Riemann surfaces; Automorphisms; Fuchsian groups; *11368*. SP305-2.
- Modular groups; Diophantine approximation; *11599*. SP305-2.
- Modular groups; Quotient groups; Solvability; Commutator subgroups; Inclusion theorems; *14194*. SP305-6.
- Modular rotation; Nonvanishing electron spin; Rotational excitation; Slow electrons; Electrons; Electron spin; *9737*. SP305-1.
- Modular vacuum components; Vacuum ball joints; Vacuum cylinder joints; Vacuum seals; Vacuum techniques; Vacuum valves; Fluorocarbon bearings; Fluorocarbon gaskets; *11716*. SP305-2.
- Modulated absorption; Nitrogen dioxide;  $\text{NO}_2$  detection; Quantitative detection; Infrared detection; Laser magnetic resonance; *16623*. SP305-8.
- Modulated beam method; Polycrystalline molybdenum; Surface ionization; Surface lifetimes; Alkali atoms; Desorption energies; *12419*. SP305-4.
- Modulated laser beams; Radio frequency techniques; Range measurements; Interferometric measurements; Laser measurements; *10172*. SP305-1.
- Modulated reflectance; Optical absorption; Critical points; Density of states; Dielectric constant; *SP323*, pp. 77-89. SP305-4.
- Modulated reflectance; Optical absorption; Critical points; Density of states; Dielectric constant; *J.74A No. 2, 253-265 (1970)*. SP305-2.
- Modulated structures; Occupation waves; Selenides; Semiconductor-to-metal transitions; Structure transitions; Sulfides; Tellurides; Transition-metal chalcogenides; Trigonal-prismatic coordination; Dichalcogenides; Intercalation compounds; *SP364*, pp. 625-635. SP305-4.
- Modulated subcarrier; Ratio transformer test set; Small attenuation measurement; Small insertion loss measurement; Small reflection coefficient measurements; Stainless steel waveguide; Comparison of results; Dc potentiometer test set; Dual channel system; *11917*. SP305-3.
- Modulation; Nonlinear; Parametric amplifier; Active; Demodulation; Gyration; Harmonic generation; *10593*. SP305-1.
- Modulation; Notation; Optical density; Propagation; Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; Absorbance; Contrast; *9373*. SP305.
- Modulation; Notation; Optical density; Propagation; Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; *15564*. SP305-7.
- Modulation images; Satellites; Spinodal decomposition; Composition modulations; Contrast mechanism; Electron diffraction; Electron microscopy; Lattice images; *15063*. SP305-7.
- Modulation index; Multipath; Path delay; Phase vs. time;  $\sigma$  vs.  $\tau$ ; 19 kHz pilot; Frequency modulation; *16492*. SP305-8.
- Modulation measurements; Modulation meter; Percent modulation; Amplitude modulation; Instrument landing system; *16516*. SP305-8.
- Modulation meter; Percent modulation; Amplitude modulation; Instrument landing system; Modulation measurements; *16516*. SP305-8.
- Modulation noise; Noise; Noise model; Noise simulation; Precision measurements; Random noise; Reasonable perturbations; Spectral density; 1/f noise; Flicker noise; Low frequency noise; Mechanical model; *10555*. SP305-1.
- Modulation noise; Noise specification and measurement; Oscillator noise; Phase noise; Radio frequency power spectral density; Script  $\mathcal{L}(f)$ ; Script  $\mathcal{M}(f)$ ; Script  $\mathcal{N}$ ; Sidebands; Signal stability; Spectral density; Amplitude fluctuations; *14028*. SP305-6.
- Modulation of lasers; Near and far field patterns; Optical properties; Holography; Laser energy; Laser materials; Laser power; Laser radiometry; Laser standards; Laser transitions; *TN449*. SP305-1.
- Modulation technique; Nickel; Soft x-ray; Copper; Electronic density of states; Mechanical strain; *SP323*, pp. 281-285. SP305-4.
- Modulation technique; Optical; Piezo-optical; Semiconductor; Silicon; Strontium titanate; *9708*. SP305-1.

- Modulation transfer; Optical transfer function; Coherence; Image formation; *14120. SP305-6.*
- Modulation transfer function; Acutance; Facial identification; Identification in photographs; Image quality; *14683. SP305-6.*
- Modulation transfer function; Optics; Physical optics; Sagnac interferometer; Autocorrelation; Interferometry; Lens testing; *12955. SP305-4.*
- Modulation transfer function; Suprathreshold visibility; Visibility; Vision; Gratings; Illuminating engineering; Lighting; *16008. SP305-8.*
- Modulation transfer function; Suprathreshold visibility; Visibility; Vision; Gratings; Illuminating engineering; Lighting; *BSS82. SP305-8.*
- Modulation transfer function; Vision; Visual acuity; Visual capacities; Nondestructive testing; *NBSIR 76-1142. SP305-8.*
- Modulation Transfer Functions; Acutance; Identification (faces); Image quality; *15316. SP305-7.*
- Modulator; Nuclear; Pulse; Quadrupole; Resonance; Spectroscopy; Transistor; Zeeman; Current; *12350. SP305-3.*
- Modulator; Regulator; Feedback; *11087. SP305-2.*
- Modulator crystals; Nonlinear index of refraction; Optical glasses; Polarizer materials; Self-focusing; Absorption coefficient; Damage threshold; Electrostriction; Inclusion damage; Intrinsic damage; Kerr effect; Laser damage; Laser glasses; Laser rod materials; *NBSIR 74-458. SP305-6.*
- Modulator materials; Optical activity; Optical rotatory power; Verdet coefficient;  $\text{Bi}_{12}\text{Ga}_2\text{O}_{24}$ ;  $\text{Bi}_{12}\text{GeO}_{20}$ ;  $\text{Bi}_{12}\text{SiO}_{30}$ ;  $\text{Bi}_{12}\text{TiO}_{20}$ ;  $\text{Bi}_{12}\text{ZnO}_{22}$ ; Faraday effect; *11807. SP305-3.*
- Modulators; Radio communications; Radio receivers; Transistors; *TN100-A, Supplement to Appendix C of TN100. SP305.*
- Module; Programming methods; Program modifications; Type; Abstract data types; Class; Cluster; Data abstraction; Data type; *16246. SP305-8.*
- Module; Racking; Stiffness; Strength; Structural tests; Sustained load; Transportation; Vibration; Wood-frame; Deflection; Housing; Laboratory; *13389. SP305-5.*
- Modules; Nuclear; NIM; Standards; Instrumentation; Instruments; *TN556. SP305-2.*
- Modules; Nuclear; Standard; Instrument; Interchangeability; *10528. SP305-1.*
- Modules; Nuclear; Standard; Instrument; Interchangeability; *10216. SP305-1.*
- Modules; Nuclear; Standards; CAMAC; Dataway; Instrumentation; *13316. SP305-5.*
- Modules; Nuclear; Standards; CAMAC; Data; Dataway; Digital; Instrumentation; *12142. SP305-3.*
- Modules; Nuclear instruments; Progress; Standards; State-of-the-art; *9209. SP305.*
- Modules; Nuclear instruments; Progress; Standards; State-of-the-art; *9646. SP305-1.*
- Modulus; Natural; Natural rubber; Rubber; Strain-time relations; Vulcanizates; Compliance; Creep; Dicumyl peroxide vulcanizates; Indentation of rubber; *11793. SP305-2.*
- Modulus; Neoprene; Rubber; Tensile strength; Ultimate strength; Glassy state; Low temperature; Mechanical property; *10777. SP305-1.*
- Modulus; Polyethylene; Relaxations; Shear; Temperature; Torsion pendulum;  $a$ ,  $c$  face of cell; Compliance; Crystallization-oriented; Lamella thickness; Logarithmic-decrement; *9689. SP305-1.*
- Modulus; Rubber, natural; Tensile properties; Tensile strength; Ultimate elongation; Creep; *12944. SP305-4.*
- Modulus of elasticity; Strain gage; Stress-strain measurement; Dental amalgam; Dental materials; Diffraction gratings; *10953. SP305-2.*
- Modulus of rubber; Molecular interpretation of rubber elasticity; Rubber elasticity; Statistical theory of rubber elasticity; Swelling of rubber network; Cross-linking of rubber; Dicumyl peroxide; Elasticity theory of rubber; *J. Res. 80A No. 3, 451-463 (1976). SP305-8.*
- Modulus of rubber; Rubber elasticity; Statistical theory of rubber elasticity; Thermodynamics of rubber elasticity; Cross-linking of rubber; Dicumyl peroxide; Elasticity theory of rubber; Entropy component; Gel point; *J.77A No. 1, 171-177 (1973). SP305-5.*
- Modulus of rubber, effect of humidity; Oxygen, influence of, on creep of rubber; Rubber, natural, creep; Time, effect of, on compliance of rubber; Compliance of rubber; Creep, long-time, in rubber; Humidity; effect of, on creep of rubber; *J.78A No. 5, 623-629 (1974). SP305-6.*
- Modulus of rupture tests; Substrates; Surface properties; Aluminum oxide; Bending; Brittleness; Ceramics; Electronics; Flexural strength; Fractures (materials); Mechanical tests; *12861. SP305-4.*
- Modulus rupture; Thermally tempered glass; Fracture mirror size; *9227. SP305.*
- MoFs; Raman spectroscopy; Infrared; Matrix isolation; *13501. SP305-5.*
- Moiré patterns; Brittle solids; Dislocation networks; Electron microscopy; Healing; Indentations; Microcracking; *15400. SP305-7.*
- Moiré patterns; Brittle solids; Dislocation networks; Electron microscopy; Healing; Indentations; Microcracking; *NBSIR 73-658. SP305-7.*
- Moist air; Moisture content of saturated air; Saturated air; Solubility of water vapor in air; Water vapor; Concentration of saturated water vapor in air; Enhancement factor; *J.77A No. 1, 115-131 (1973). SP305-5.*
- Moist air; Saturated air; Enhancement factor; *J. Res. 80A No. 1, 41-44 (1976). SP305-8.*
- Moist air; Saturated air; Second virial coefficients; Virial coefficients; Enhancement factor; Equation of state; Interaction virial coefficients; *J.77A No. 4, 551-560 (1975). SP305-7.*
- Moist air; Second virial coefficient; Virial coefficients; Water vapor; Interaction virial coefficients; *J.77A No. 1, 133-147 (1973). SP305-5.*
- Moist gas; Psychrometer; Psychrometric factor; Saturation; Thermodynamic wet-bulb temperature; Vapor content; Wet-bulb; Adiabatic saturation; Gas mixtures; Humidity; Hygrometer; Mixing ratio; *J.72C No. 1, 33-47 (1968). SP305-1.*
- Moist gas; Psychrometer; Vapor pressure; Adiabatic saturation; Dew point temperature; Humidity; Hygrometer; Mixing ratio; *J.75C No. 2, 69-78 (1971). SP305-3.*
- Moisture; Moisture measurement system; Water vapor; Humidity; Humidity measurement system; Measurement of humidity; Measurement of moisture; *NBSIR 75-933. SP305-8.*
- Moisture; Near-infrared; Spectrophotometry; Starch; Hydrolyzates; Infrared; *14503. SP305-6.*
- Moisture; Oxygen indexes; Pyrolysis; Reaction rates; Temperature; TGA; Thermal analysis; Accessibility; Arrhenius plots; Burned celluloses; Celluloses; Combustion; Crystallinity; Decomposition; DP; DTA; Flame-retardant;  $\text{KHCO}_3$ ; Kinetics; *13129. SP305-5.*
- Moisture; Pressure; Temperature; Composite wall panel; Condensation; Humidity; *13610. SP305-5.*
- Moisture; Roofing; Saturation; Absorption; Asphalts; Felts; *BSS19. SP305-1.*
- Moisture; Standard; Water vapor; Humidity measurement; *14727. SP305-7.*
- Moisture; Water vapor; Humidity; Hygrometry; *12430. SP305-4.*
- Moisture condensation; Thermal bridges; Thermal insulation; U-values of walls; Floors and panels; *TN710-7. SP305-5.*
- Moisture conditioning; Operation BREAKTHROUGH; Paper, honeycomb; Structural sandwich; Sustained load; Accelerated

- aging; Adhesive bond; Ductility; Flexural shear; Housing systems; Local buckling; Material variability; *BSS37*. SP305-6.
- Moisture content; Overlay; Plywood; Shear test; Vacuum and pressure test; Adhesives; Boil test; Bonding; Exterior; Grading; Interior; *PSI-66*. SP305.
- Moisture content; Surface area; Water content; Water vapor adsorption; Adsorption; Computer application; Desorption; Dry weight determination; *J79A No. 4*, 565-576 (1975). SP305-7.
- Moisture content of saturated air; Saturated air; Solubility of water vapor in air; Water vapor; Concentration of saturated water vapor in air; Enhancement factor; Moist air; *J77A No. 1*, 115-131 (1973). SP305-5.
- Moisture infusion; Optical flying-spot scanner; Oxide films; Passivation overcoats; Photomask metrology; Pull test; Resistivity; Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; *SP400-19*. SP305-8.
- Moisture infusion; Optical flying-spot scanner; Passivation overcoats; Photoresist; Pull test; Resistivity; Scanning acoustic microscope; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; *SP400-25*. SP305-8.
- Moisture measurement; Relative humidity; Water vapor measurement; "Brady Array" sensors; Electric hygrometer; Humidity; Humidity sensor; *NBSIR 74-477*. SP305-6.
- Moisture measurement; Water vapor measurement; Aluminum oxide sensor; Humidity; Humidity sensor; Hygrometer; Measurement of frost points; *TN824*. SP305-6.
- Moisture measurement in gases; Psychrometry; Dew point; Hygrometry; Meteorology; *11991*. SP305-3.
- Moisture measurement system; Water vapor; Humidity; Humidity measurement system; Measurement of humidity; Measurement of moisture; Moisture; *NBSIR 75-933*. SP305-8.
- Moisture resistance; Sodium chloride; Arsenic trisulphide; Ion plating; Protective films; *SP435*, pp. 14-19 (Apr. 1976). SP305-8.
- Moisture transfer; Thermal insulation; Flat roofs; Heat transfer; *BSS37*. SP305-3.
- Iolar absorptivity in clinical chemistry; Random errors in molar absorptivity; Systematic errors in molar absorptivity; *SP378*, pp. 109-115. SP305-5.
- Iolar absorptivity in clinical chemistry; Random errors in molar absorptivity; Systematic errors in molar absorptivity; *J76A No. 5*, 483-489 (1972). SP305-4.
- Iolar heat capacity; Entropy; Heat capacity; *16168*. SP305-8.
- Iolar polarizability; Nitrogen; Saturated liquid densities; Clausius-Mossotti function; Dielectric constant; Dielectric virial coefficients; *14560*. SP305-6.
- fold; Alloy; Casting; Chromium; Investment; *13668*. SP305-5.
- folded; Morpholine; Prefabricated steel conduit; Qualified Products List; Tieline; Condensate return; Epoxy; Fiberglass reinforced plastic; Filament-wound; Insulated; *BSS66*, pp. 88-101. SP305-7.
- Iolecular; Orbital; Periodic acid; Rules; Symmetry; Acid; Benzalazine; Cleavage; Complex; *12593*. SP305-4.
- Iolecular; Photodetachment; Atomic; Crossed beam; Cross section; Electron affinity; *13029*. SP305-4.
- Iolecular; Properties; Atomic; Compilation; Data; Data center; *10028*. SP305-1.
- Iolecular; Saturation; Absorption; Laser; *13286*. SP305-5.
- Iolecular; Spectral; Tables; Vibrational; Data; Frequencies; *NSRDS-NBS17, Part 3*. SP305-1.
- Iolecular; Spectrum; Ammonia; Infrared; Inversion; Laser; *9892*. SP305-1.
- Iolecular; Spin lattice; Temperature dependent; Diffusion constant; Dipole relaxation; *13167*. SP305-5.
- Iolecular; Vibrational; Frequencies; Data; Tables; Force; Constants; Spectral; *NSRDS NBS6*. SP305.
- Molecular and ionic interactions; Review of literature; 1966 dielectrics literature; Dielectrics literature; Dielectric theory; Digest of Literature; *10694*. SP305-1.
- Molecular bands; Molecular spectra; Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands, molecular; Energy levels, atomic; Line shapes, atomic; *13285*. SP305-5.
- Molecular bands; Molecular spectra; Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands, molecular; Energy levels, atomic; Line shapes, atomic; *14100*. SP305-6.
- Molecular bands; Molecular spectra; Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands, molecular; Energy levels, atomic; Line shapes, atomic; *15260*. SP305-7.
- Molecular bands; Molecular spectra; Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands, molecular; Energy levels, atomic; Line shapes, atomic; *15901*. SP305-8.
- Molecular beam; Hydrogen; Intermolecular potential; *9816*. SP305-1.
- Molecular beam;  $\text{NH}_3$ ; Quadrupole splitting; Centrifugal distortion; Hyperfine structure; Inversion doublet; *13262*. SP305-5.
- Molecular beam; Permittivity; Refractive index; Spectroscopy; Dielectric constant; Electric dipole moments; Gas phase; Microwave; Microwave absorption; *NSRDS-NBS10*. SP305.
- Molecular beam; Phase spectroscopy; Vibrational energy transfer; Infrared laser; Laser chemistry; Mass spectrometry; *14397*. SP305-6.
- Molecular beam; Ramsey resonance; Saturated absorption; Stabilized laser; Transition probability; Frequency standard; Methane resonance; *13800*. SP305-5.
- Molecular beam; Tungsten; Condensation; Field emission; Hydrogen; *10760*. SP305-1.
- Molecular beams; Quantum mechanics; Rate coefficients; Recombinations; Scattering theory; Chemical reactions; Collision theory; Cross sections; Dissociation; Hot atoms; Isotope effects; Kinetics; *16591*. SP305-8.
- Molecular beam; Tungsten; Condensation; Field emission; Hydrogen; *10756*. SP305-1.
- Molecular biology; Pharmacology; Protein calorimetry; Polynucleotide calorimetry; Purity assay; Reaction coupling; Thermodynamics; Warfarin; Adenosinetriphosphate-thermodynamics; Chemical bond energy; Coiled helix thermopolies; Drug receptor complexing; *17330*. SP305-5.
- Molecular biology; Thermal free energy; Thermodynamics; Characteristic function (Planck); Chemical bonding energy; Double helix; Heat integrals; *17329*. SP305-5.
- Molecular cloud; Molecular spectroscopy; Radio astronomy; Sagittarius B2; Ethyl alcohol; Interstellar chemistry; *15001*. SP305-7.
- Molecular coherence; Photon spectrum; Radiation; Bremsstrahlung; Electron; Interference; *12634*. SP305-4.
- Molecular collisions; Scattering theory; Spectral line widths; *13863*. SP305-6.
- Molecular collisions; Scattering theory; Spectral line widths; *13866*. SP305-6.
- Molecular collisions; Vibrational exchange; Energy transfer; Infrared lasers; *14323*. SP305-6.
- Molecular complexity; Molecular thermodynamics; Prigogine's cell theory; Thermodynamic properties; Three-parameter theorem; Argon; *9386*. SP305.
- Molecular configurational relaxation; Configurational entropy; Critical configurational entropy; Glass transformations; *9631*. SP305-1.
- Molecular configurational state; Normal and supercooled liquid; Quenched glass; Residual (configurational) entropy; Thermodynamic properties; Annealed glass; Crystal; Diethyl

- phthalate; Glass transformation; *J.71A4-461*, 293-305 (1967). SP305.
- Molecular constant; Molecular oxygen; Negative ions, photodetachment; Electron affinity; *12882*. SP305-4.
- Molecular constants; Absorption spectra; Electronic spectra; High resolution; Hydrogen halides; *12684*. SP305-4.
- Molecular constants; Absorption spectroscopy; Alkali metal hydrides; Hydrides; Isotope relations; *9276*. SP305.
- Molecular constants; Absorption spectroscopy; Alkali metal hydrides; Hydrides; Isotope relations; *9277*. SP305.
- Molecular constants; Absorption spectroscopy; Alkali metal hydrides; Hydrides; Isotope relations; *9278*. SP305.
- Molecular constants; Molecular structure; Spectra; Deuterium cyanide; Hydrogen cyanide; Infrared spectra; Microwave spectra; *10393*. SP305-1.
- Molecular constants; Negative ions; Nitric oxide; Photodetachment; Electron affinity; *12883*. SP305-4.
- Molecular constants; Perturbations; Rotational analysis; Vacuum ultraviolet region; Carbon monoxide; Diatomic spectrum; *11130*. SP305-2.
- Molecular constants; Perturbations; Sodium molecule; Spectroscopy; Alkali dimer; Magnetic rotation; *15516*. SP305-7.
- Molecular constants; Spin-splittings; Vibration-rotation; Air pollutant; Fundamental vibrational band; High-resolution; *14127*. SP305-6.
- Molecular constants of O<sub>2</sub>; O<sub>2</sub> spectrum; HCN laser; Laser magnetic resonance; *13068*. SP305-5.
- Molecular correlation functions; Phase transitions; Equation of state; Freezing; Freezing criteria; Melting; *14728*. SP305-7.
- Molecular correlations; Nitrogen; Sound absorption; Argon; Bulk viscosity; Density expansion; Methane; Modified Enskog theory; *16483*. SP305-8.
- Molecular CO<sub>2</sub>; Molecular oxygen; O and C K $\alpha$  x-ray emission spectra; O K absorption spectra; *15256*. SP305-7.
- Molecular cross section; Photoeffect; Hydrogen; *16132*. SP305-8.
- Molecular crystal structures; Molecular libration; Rigid-bodies; Thermal constraints; Constrained refinement; Least-squares refinement; *13221*. SP305-5.
- Molecular crystals; APW; Band structure; Density of states; Disordered systems; KKR; Pseudopotential; T-matrix; *J.74A No. 2*, 241-252 (1970). SP305-2.
- Molecular crystals; Multiple site model; Potential barrier to rotation; Relaxation times; Dielectric relaxation; Long chain molecule; *9787*. SP305-1.
- Molecular crystals; Naphthalene; Anthracene; Aromatic crystals; Benzene; Excitonic density of states; *SP323*, pp. 261-267. SP305-4.
- Molecular crystals; Pseudopotential; APW; Band structure; Density of states; Disordered systems; KKR; *t*-matrix; *SP323*, pp. 1-12. SP305-4.
- Molecular defects; Pair potentials; Site model; Calculations; Hydrocarbon crystals; Internal friction; *16074*. SP305-8.
- Molecular diffusion; Organic molecule; Superconductor; Susceptibility; Diamagnetism; Light scattering; *16529*. SP305-8.
- Molecular dissociation; Relativistic electrons, excitation; Energy transfer, electronic; Fluorescence; *16615*. SP305-8.
- Molecular distribution functions; Ornstein-Zernike theory; Percus-Yevick equation; Phase transitions; Potentials of average force; Critical phenomena; Entropy-energy-volume; Fluctuations; Fundamental maximum principle; *10966*. SP305-2.
- Molecular dynamics; Molecular interactions; Nitrogen; Pair potentials; Temperature perturbation theory; Argon; Compressibility factor; Dense fluids; Equation of state; *12453*. SP305-4.
- Molecular dynamics; Molecular solid; Rotation; Spectroscopy; Vibration; Crystal; Crystal structure; Diffraction; Lattice dynamics; *SP301*. SP305-1.
- Molecular dynamics; *n*-alkanes; *n*-nonadecane; Neutron scattering; Paraffin; Rotator phase; *13656*. SP305-5.
- Molecular dynamics; Neutron; Nuclear reactor; Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; *TN758*. SP305-5.
- Molecular dynamics; Neutron; Nuclear reactor; Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; *TN813*. SP305-6.
- Molecular dynamics; Neutron; Nuclear reactor; Radiation; Radiography; Activation analysis; Crystal structure; Diffraction; Isotopes; *TN860*. SP305-7.
- Molecular dynamics; Neutron; Nuclear reactor; Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; *TN896*. SP305-8.
- Molecular dynamics; Neutron scattering and potential Coherent scattering function; Density fluctuations; Liquid rubidium; *14248*. SP305-6.
- Molecular dynamics; Neutron scattering; Orientational correlation function; Time correlation function; Infrared absorption; Light scattering; Liquids; Magnetic resonance; *11699*. SP305-2.
- Molecular dynamics; NMR; Relaxation; Chemical shift Fluoroalkanes; *16327*. SP305-8.
- Molecular dynamics; Numerical error; Perfect lattice; Thermal conductivity; Thermal diffusivity; Thermo-elastic coupling; Continuum theory of diffusion; Density; Kinetic temperature; *16281*. SP305-8.
- Molecular dynamics; Phase diagram; P-V-T data; Iron; Lattice structure; Martensitic transformation; *12426*. SP305-4.
- Molecular dynamics; Potential function; Self-diffusion coefficient; 11-6-8 potential function; Correlation function; Experimental data; Hydrodynamic behavior; Methane; *15173*. SP305-7.
- Molecular dynamics; Potential function; Specific heat; Statistical mechanical ensembles; Thermodynamic properties; Three body forces; Methane; *15310*. SP305-7.
- Molecular dynamics; Random-walk theory; Vacancy motion; Atomic diffusion; Defect motion; Interstitial motion; Jump frequency; Lattice model; Migration energy; Migration entropy; *12022*. SP305-3.
- Molecular dynamics; Rare gases; Velocity autocorrelation function; 11-6-8 potential; Axilrod-Teller correction; Dense liquid; Excess function; Hydrodynamic limit; *15168*. SP305-7.
- Molecular dynamics; Second sound; Shockwave; Thermal relaxation; Three dimensions; Crystalline solid; Iron; *13477*. SP305-5.
- Molecular dynamics; Second sound; Stress wave; Temperature wave; Thermal relaxation; Anharmonicity; Crystal; Helium pulse; Lattice; *14253*. SP305-6.
- Molecular dynamics; Second sound; Shock wave; Stress wave; Temperature wave; Thermal diffusivity; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Interatomic potential; *16138*. SP305-8.
- Molecular dynamics; Second sound; Stress pulse; Temperature wave; Thermal diffusivity; Thermal equilibrium; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; *16589*. SP305-8.
- Molecular dynamics; Shock waves; Blast waves; Computer simulation; Interatomic potentials; Lattice dynamics; *15437*. SP305-7.
- Molecular dynamics; Simple fluids; Specific heats; Temperature dependence; Density dependence; *12525*. SP305-4.
- Molecular electronic structure; Orbital energy; Polarizability; Quadrupole moment; Spectroscopic constants; *Ab initio* electronic calculation; Dipole moment; Dissociation energy; Electron affinity; Energy; Field gradient; Magnetic constant; *TN438*. SP305.
- Molecular emission, Orion Nebulae; Silicon monoxide; Rotational transitions; Maser; M-type stars; *15210*. SP305-7.



- molecular emission spectra; Resonance fluorescence; Absorption; Analytical methods; Laser-excited fluorescence; Matrix-isolation; 12680. **SP305-4.**
- molecular energy levels; Molecules; X-ray spectra; 9443. **SP305.**
- molecular energy levels; Ozone; Pollution; Spectra; Absorption spectra; Infrared; 15311. **SP305-7.**
- molecular excitations; Radiation chemistry; Radiation processing; Dose distribution; Dyes; Electron beams; Energy transfer; Films; Gamma radiation; High resolution; 9909. **SP305-1.**
- molecular field; Molecular rotation; Schottky anomaly; Brillouin function; Density of states; Einstein function; Energy levels; Harmonic oscillator; Heat capacity; 13308. **SP305-5.**
- molecular field approximation; Pair correlation function; Three-dimensional ferromagnet; Two-dimensional ferromagnet; Ising ferromagnet; 11166. **SP305-2.**
- molecular field approximation; Schottky anomaly; Thulium arsenate;  $TmAsO_4$ ; Heat capacity; Jahn-Teller effect; 12990. **SP305-4.**
- molecular field theory; Short-range order; Magnetism; 9986. **SP305-1.**
- molecular field theory; Short-range order; Magnetism; 11083. **SP305-2.**
- molecular flow; Monte Carlo; Vacuum; Vacuum gauge; Vane gauge; 11155. **SP305-2.**
- molecular fluorescence; Atomic fluorescence; Cesium rubidium; Laser induced fluorescence; 11508. **SP305-2.**
- molecular fluorescence; Molecular spectroscopy;  $Na_2$ ; Resonance fluorescence; Alkali dimers; Laser-induced fluorescence; 11533. **SP305-2.**
- molecular fluorescence; Molecular spectroscopy;  $Na_2$ ; Laser-induced fluorescence; Laser-molecular level crossing; Level crossing; 11549. **SP305-2.**
- molecular fluorescence parameters; Observed (technical) fluorescence parameters; Polarization; Radiative and non-radiative transition probabilities; Real fluorescence parameters; Fluorescence lifetime; *J. Res.* **80A** No. 3, 389-399 (1976). **SP305-8.**
- molecular formulae; Chemical structures; Computer; Connection tables; Hayward notation; Matrices; 10442. **SP305-1.**
- molecular gas;  $SF_6$ ; sulfur; X-ray; Absorption; Fine structure; K-edge; 9879. **SP305-1.**
- molecular geometries; Heavy metal halides; Infrared spectra; Matrix isolation; 12157. **SP305-3.**
- molecular geometry; Molecular structure; Spectra; Absorption; Gas; Infrared; Methyl iodide; 11973. **SP305-3.**
- molecular geometry; Monodeuteromethane; Perturbations; Rotational constants; Symmetric top; Infrared; 13142. **SP305-5.**
- molecular geometry;  $NO_2$ ; Spectra; Dipole moment; Excited states; MC-SCF; 15336. **SP305-7.**
- molecular geometry; Vibrational assignment; CsOH; High temperature; Infrared; 10813. **SP305-1.**
- molecular hydrogen; Nonadiabatic; Pure precession; RKR potentials; A-doubling; Heterogeneous interaction; 13897. **SP305-6.**
- molecular hydrogen; Partial widths; Potential curve; Predissociation; Vibrational overlap; Born-Oppenheimer; Hartree-ock; 12102. **SP305-3.**
- molecular hydrogen; Photoelectron spectroscopy; Polarization energy; Relaxation energy; Screening energy; 15749. **SP305-5.**
- molecular hyperfine spectra; Saturated absorption spectroscopy; Ultrahigh resolution; Laser spectroscopy; Methane; 4673. **SP305-6.**
- molecular interactions; Nitrogen; Pair potentials; Temperature perturbation theory; Argon; Compressibility factor; Dense fluids; Equation of state; Molecular dynamics; 12453. **SP305-5.**
- Molecular interactions; Pressure broadening; Dielectric constant; Dielectric polarization and refraction; Dielectric relaxation; Dipole moments; Electrical conductance of liquids and solutions; Internal rotation; 9905. **SP305-1.**
- Molecular interpretation of rubber elasticity; Rubber elasticity; Statistical theory of rubber elasticity; Swelling of rubber network; Cross-linking of rubber; Dicumyl peroxide; Elasticity theory of rubber; Entanglements in rubber; *J. Res.* **80A** No. 3, 451-463 (1976). **SP305-8.**
- Molecular ion; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Charge transfer; Free radical; Infrared spectrum; Matrix isolation; 12787. **SP305-4.**
- Molecular ionization; Photoionization; Vacuum ultraviolet; Chlorine monofluoride; Dissociative ionization; Fluorine; Heats of formation; Hot bands; Hydrogen fluoride; Ion pairs; Mass spectrometry; 12390. **SP305-4.**
- Molecular ionization; Photoionization; Bromine; Hot-bands; Mass spectrometry; 12393. **SP305-4.**
- Molecular ionization; Photoionization; Vacuum ultraviolet; Chlorine monofluoride; Dissociative ionization; Fluorine; Heats of formation; Hot bands; Hydrogen fluoride; Ion pairs; Mass spectrometry; 12148. **SP305-3.**
- Molecular ions; Atomic ions; Doped alkali halide crystals; External vibrational modes; Internal vibrational modes; *NSRDS-NB552*. **SP305-6.**
- Molecular ions; Molecular orbitals; Photolysis; Ultraviolet spectrum; Alkali metal reactions; Cage effect; Flash photolysis; Free radicals; Infrared spectrum; Matrix isolation; 12748. **SP305-4.**
- Molecular ions;  $NO_2$ ; Reaction of OH with CO; Ultraviolet spectrum; Vacuum-ultraviolet photolysis of HCN, of halogen cyanides, of  $CH_4$ , of  $CH_3Cl$ , of  $CH_3OH$ , of  $C_2H_6$ , of  $HCCl_3$ ; Free radicals; 14241. **SP305-6.**
- Molecular ions; Photolysis; Ultraviolet spectrum; Free radicals; Infrared spectrum; Matrix isolation; 13706. **SP305-5.**
- Molecular ions; Reactive molecules; Rotation in matrices; Vibrational spectra; Atomic spectra; Electronic spectra; Free radicals; High-temperature species; Matrix isolation; 13422. **SP305-5.**
- Molecular ions, photolysis; Ultraviolet spectrum; Free radicals; Infrared spectrum; Matrix isolation; 12663. **SP305-4.**
- Molecular lasers; Coriolis interactions; Infrared lasers; 14097. **SP305-6.**
- Molecular libration; Rigid-bodies; Thermal constraints; Constrained refinement; Least-squares refinement; Molecular crystal structures; 13221. **SP305-5.**
- Molecular mechanisms; Pyrolysis of hydrocarbons; Radical mechanisms; Unimolecular decomposition; Decomposition; Kinetics of decomposition; *SP357*, pp. 7-15. **SP305-4.**
- Molecular motion; Polyethylene; Rotational potentials; Spin-lattice relaxation; Alkanes; Carbon-13; Magnetic resonance; 14077. **SP305-6.**
- Molecular motions; Nuclear magnetic resonance absorption; Polyoxymethylene crystals; Solid state polymerization; Trioxane crystals; Dielectric loss; Dielectric relaxation; 15359. **SP305-7.**
- Molecular negative ions; Photodetachment; Elastic scattering; Electron affinity; High resolution; Internuclear distance; 12424. **SP305-4.**
- Molecular nitrogen; Negative ions; Nitrogen window; Resonances; Vibrational excitation; Doppler broadening; Electronic excitation; Low energy elastic electron scattering; Low energy inelastic electron scattering; Lyman-Birge-Hopfield bands; 9776. **SP305-1.**
- Molecular nitrogen pulsed laser; Nitrogen molecule; Nitrogen pulsed laser; Pulsed laser emission; Rotational band spectrum; Accurate wavelength measurements; Laser; 9828. **SP305-1.**

- Molecular orbital; Potential energy curve;  $\text{BeH}^+$ ; Correlation energy; Dissociation energy; LiH; *J.72A No. 1, 85-90 (1968)*. SP305-1.
- Molecular orbital level sequence; Calculated relative x-ray emission; Carbon  $K\alpha$  emission; Fluorine  $K$  absorption; Fluorine  $K\alpha$  emission; Fluoromethane molecules; Methane; 13363. SP305-5.
- Molecular orbital model; Photon and electron excited emission spectra; Resonance radiation; Semi-Auger process;  $\text{SF}_6$ ; X-ray absorption of sulphur K, L and fluorine K; 13101. SP305-5.
- Molecular orbitals;  $\text{NiCl}_2$ ; Transition-metal reactions; Ultraviolet spectrum;  $\text{Cl}_2$  reactions;  $\text{CoCl}_2$ ;  $\text{CrCl}_2$ ; Emission spectrum;  $\text{FeCl}_2$ ; Infrared spectrum; Matrix isolation;  $\text{MnCl}_2$ ; 11340. SP305-2.
- Molecular orbitals;  $\text{O}_2 + \text{O}^-$  reaction;  $\text{O}_2^-$  anion; Ultraviolet spectrum; Charge transfer; Electron attachment; Infrared spectrum; Matrix isolation; 12881. SP305-4.
- Molecular orbitals; Photolysis; Ultraviolet spectrum; Alkali metal reactions; Cage effect; Flash photolysis; Free radicals; Infrared spectrum; Matrix isolation; Molecular ions; 12748. SP305-4.
- Molecular orbitals; Quantum chemistry; Transition metal complexes; Catalysis; Chemisorption theory; Metal clusters; SP455, pp. 67-86 (Nov. 1976). SP305-8.
- Molecular orbitals;  $\text{SO}_2^-$  anion; Sulfur dioxide; Alkali metal reactions; Charge transfer; Electron capture; Infrared spectrum; Matrix isolation; 12336. SP305-3.
- Molecular orbitals; Vibrational spectrum; Electronic spectrum; Flash photolysis; Free radicals; Matrix isolation; 11823. SP305-3.
- Molecular oxygen; Dissociation; Electron; Ionization; 14163. SP305-6.
- Molecular oxygen; Dissociation; Electron; Ionization; 14756. SP305-7.
- Molecular oxygen; Negative ions, photodetachment; Electron affinity; Molecular constant; 12882. SP305-4.
- Molecular oxygen; O and C  $K\alpha$  x-ray emission spectra; O K absorption spectra; Molecular  $\text{O}_2$ ; 15256. SP305-7.
- Molecular oxygen; Oscillator strengths; Spectra; Electron; Energy loss; 15446. SP305-7.
- Molecular oxygen; Potential energy curves; Rotational spectrum; Spectroscopic constants; Critical review; Electronic spectrum; *J. Phys. Chem. Ref. Data* 1, No. 2, 423-534 (1972). SP305-6.
- Molecular oxygen; Predissociation; Spin-orbit matrix elements; Ab initio calculation; Level shifts; Line broadening; 15055. SP305-7.
- Molecular oxygen; Predissociation; Schumann-Runge bands; Spin-orbit mixing; 16596. SP305-8.
- Molecular oxygen; Zeeman levels; Electron paramagnetic resonance; HCN laser; 10933. SP305-2.
- Molecular oxygen in rare gas solids;  $\text{O}_2$  excited states; Emission spectra; Intersystem crossing; 16612. SP305-8.
- Molecular packing; Tetraazacyclooctane derivatives; X rays; Crystal structure explosives; Least-squares refinement; 15574. SP305-7.
- Molecular parameters; Molecular size; Simple liquids; Thermodynamic properties; Analytical partition function; 9691. SP305-1.
- Molecular parameters; Radio astronomy; Rotational transitions; Hydrogen sulfide; Hyperfine structure; Interstellar molecules; Microwave spectra; *J. Phys. Chem. Ref. Data* 2, No. 2, 215-223 (1973). SP305-6.
- Molecular parameters; Radio astronomy; Rotational transitions; Thioformaldehyde; Formaldehyde; Formamide; Interstellar molecules; Microwave spectra; *J. Phys. Chem. Ref. Data* 1, No. 4, 1011-1046 (1972). SP305-6.
- Molecular parameters; Radio astronomy; Rotational transitions; Hyperfine structure; Interstellar molecules; Methyleneimine; Microwave spectra; *J. Phys. Chem. Ref. Data* 2, No. 1, 1-10 (1973). SP305-6.
- Molecular parameters; Radio astronomy; Rotational transitions; Torsion; Internal rotation; Interstellar molecules; Methanol; Microwave spectra; *J. Phys. Chem. Ref. Data* 2, No. 2, 205-214 (1973). SP305-6.
- Molecular parameters; Radio astronomy; Rotational transitions; Water; Hyperfine structure; Interstellar molecules; Microwave spectra; *J. Phys. Chem. Ref. Data* 3, No. 1, 211-219 (1974). SP305-6.
- Molecular parameters; Radio astronomy; Rotational transitions; Spectra; Carbonyl sulfide; Hydrogen cyanide; Interstellar molecules; Microwave spectra; *J. Phys. Chem. Ref. Data* 3, No. 1, 221-244 (1974). SP305-6.
- Molecular parameters; Radio astronomy; Rotational transitions; Silicon monoxide; Carbon monosulfide; Carbon monoxide; Interstellar molecules; Microwave spectra; *J. Phys. Chem. Ref. Data* 3, No. 1, 245-257 (1974). SP305-6.
- Molecular parameters; Radio astronomy; Rotational transitions; Spectra; Sulfur monoxide; Interstellar molecules; Microwave spectra; *J. Phys. Chem. Ref. Data* 3, No. 1, 259-268 (1974). SP305-6.
- Molecular parameters; Rotational transitions; Spectra; Bond distances; Carbonyl sulfide; Microwave spectra; 13653. SP305-5.
- Molecular parameters; Rotational transitions; Sulfur monoxide; Born-Oppenheimer approximation; Isotopic effects; Microwave spectra; 14497. SP305-6.
- Molecular parameters; Rotational transitions; Radio astronomy; Isocyanic acid; Interstellar molecules; Microwave spectra; *JPCRD* 5, No. 1, 79-102 (1976). SP305-8.
- Molecular polarizability; Orthopara composition; Parahydrogen; Refractive index; Clausius-Mossotti function; Lorentz-Lorentz function; 10906. SP305-2.
- Molecular quantum mechanics; Electronic structure;  $\text{H}_3^+$ ; 988. SP305-1.
- Molecular quantum mechanics; Pseudonatural orbitals; Electronic energy;  $\text{He}_2^+$ ; 9692. SP305-1.
- Molecular reaction; Propynyl; Pyrolysis; Single pulse shock tube; 4-methylpentene-1; Allene; Bond energy; Comparative; Gas phase; Heats of formation; Kinetics; 12832. SP305-4.
- Molecular reactions; Rate constants; Reaction rates; Arrhenius parameters; Chemical kinetics; Critical review data; Gas phase; Mechanisms; *NSRDS-NBS21*. SP305-2.
- Molecular relaxation in dilute solution; Poly(n-butyl isocyanate); Rodlike molecules; Dielectric constant; Dielectric relaxation time; Dipole moment; 10859. SP305-1.
- Molecular relaxation in dilute solution; Poly(butyl isocyanate); Polymer chain configuration; Polypeptides; Rodlike molecules; Dielectric constant; Dielectric relaxation time; Dipole moment; Kratky-Porod worm-like model; 1120. SP305-2.
- Molecular reorientation; Neopentane; Phase transition; Plastic crystal; Raman; And rotational diffusion; Band shape analysis; Diffusion models; Infrared; Jump diffusion; 137. SP305-5.
- Molecular reorientation; Neopentane; Neutron scattering; Plastic crystal; Quasielastic; Activation energy; Cold neutron; Correlation time; Diffusion constant; 11547. SP305-2.
- Molecular reorientation; Neutron scattering; Neutron spectra; Phase transitions; Torsional vibrations; Barrier to rotation; Cosine potential; Globular molecules; Hindered rotation; Methyl group; 10039. SP305-1.
- Molecular reorientation; Raman spectra; Vibrational relaxation; Chloroform; Infrared spectra; 15700. SP305-7.
- Molecular rotation; Molecular structure; Qualitative analysis; Quantitative analysis; Dipole moment; Microwave spectra; 13536. SP305-5.

- Molecular rotation; NMR second moment; *n*-nonadecane; Paraffin; Rotator phase; Wideline NMR; 14018. SP305-6.
- Molecular rotation; Relaxation; Temperature dependence; Elastic barrier; Lattice; 13756. SP305-5.
- Molecular rotation; Schottky anomaly; Brillouin function; Density of states; Einstein function; Energy levels; Harmonic oscillator; Heat capacity; Molecular field; 13308. SP305-5.
- Molecular rotation; Vacuum-ultraviolet photolysis; Vibrational potential function; Alkali metal reactions; BrHBr<sup>+</sup>; Charge transfer; ClHCl<sup>+</sup>; Electron attachment; Infrared spectrum; Matrix isolation; 12369. SP305-3.
- Molecular rotation in solid Ar; Photoinduced proton transfer; Ultraviolet spectrum; Ar metastable interactions; ClHCl<sup>+</sup>; Emission spectrum; HAr<sup>+</sup>; HCCl<sub>3</sub><sup>+</sup>; HCCl<sub>2</sub><sup>+</sup>; HCCl<sub>3</sub>; Infrared spectrum; Matrix isolation; 15757. SP305-8.
- Molecular size; Porous glass chromatography; Protein; Protein-sodium dodecyl sulfate complexes; Sodium dodecyl sulfate-complexes; Chromatography; Controlled pore glass; 13721. SP305-5.
- Molecular size; Porous glass chromatography; Protein; Protein-sodium dodecyl sulfate complexes; Sodium dodecyl sulfate-complexes; Chromatography; Controlled pore glass chromatography; 14307. SP305-6.
- Molecular size; Simple liquids; Thermodynamic properties; Analytical partition function; Molecular parameters; 9691. SP305-1.
- Molecular solid; Organic; Polymers; Rotation; Spectroscopy; Crystal dynamics; Crystallography; Crystal structure; Inorganic; 10417. SP305-1.
- Molecular solid; Rotation; Spectroscopy; Vibration; Crystal; Crystal structure; Diffraction; Lattice dynamics; Molecular dynamics; SP301. SP305-1.
- Molecular spectra; Absorption spectra; Carbon disulfide; Energy levels; High resolution; Infrared; 13649. SP305-5.
- Molecular spectra; Absorption spectra; Carbon disulfide; Energy levels; Infrared; Lasers; 14460. SP305-6.
- Molecular spectra; Non-LTE; Solar model; Upper photosphere; Carbon abundance; 15044. SP305-7.
- Molecular spectra; OH; Radiative lifetimes; Spin uncoupling; Vibration-rotation interaction; Vibrational transitions; Einstein coefficients; Line strengths; Meinel bands; 14767. SP305-7.
- Molecular spectra; Photoionization; Rare-earths; Review; Spectroscopy; Transition probabilities; Atomic spectra; Cross section; *f*-values; 12683. SP305-4.
- Molecular spectra; Polyatomic molecules; Quadrupole coupling constants; Rotational constant; Spectral lines; Barrier height; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; Hindered rotation; *Monogr. 70, Volume III. SP305-1.*
- Molecular spectra; Polyatomic molecules; Quadrupole coupling constants; Rotational constant; Spectral lines; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; L-doubling; Microwave spectra; *Monogr. 70, Volume IV. SP305-1.*
- Molecular spectra; Polyatomic molecules; Rotational quantum numbers; Spectral lines; Diatomic molecules; Hyperfine; Microwave spectra; *Monogr. 70, Volume V. SP305-1.*
- Molecular spectra; Raman spectra; Data; Force constants; Infrared spectra; Modes of vibration; Molecular vibrational frequencies; *NSRDS-NBS11. SP305.*
- Molecular spectra; Rare earth spectra; Transition probabilities; Ultraviolet spectra; Atomic spectra; Lanthanum spectra; 10406. SP305-1.
- Molecular spectra; Rare earth spectra; Transition probabilities; Analyses of optical spectra; Atomic spectra; Data centers; 11236. SP305-2.
- Molecular spectra; Rare-earth spectra; Reference data programs; Solar spectra; Spectra of late-type stars; Sun-spot spectra; Atomic spectra; 9950. SP305-1.
- Molecular spectra; Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands, molecular; Energy levels, atomic; Line shapes, atomic; Molecular bands; 13285. SP305-5.
- Molecular spectra; Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands, molecular; Energy levels, atomic; Line shapes, atomic; Molecular bands; 14100. SP305-6.
- Molecular spectra; Rotational constants; Rotational spectral lines; Diatomic molecules; Dipole moments; Hyperfine structure; Internuclear distance; *J. Phys. Chem. Ref. Data 3, No. 3, 609-770 (1974). SP305-6.*
- Molecular spectra; Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands, molecular; Energy levels, atomic; Line shapes, atomic; Molecular bands; 15260. SP305-7.
- Molecular spectra; Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands, molecular; Energy levels, atomic; Line shapes, atomic; Molecular bands; 15901. SP305-8.
- Molecular spectra; Solar photosphere; Carbon abundance; 15585. SP305-7.
- Molecular spectra; Solar spectrum; Standards, wavelength; Transition probabilities; Wavelength standards; Laboratory spectra; 10588. SP305-1.
- Molecular spectra; Spectra; Thioborane; Absorption spectra; Force constants; HBS; Infrared; 15000. SP305-7.
- Molecular spectra; Time-resolved spectroscopy; AIO; Atomic spectra; Electrical discharge; Exploding wire; 10470. SP305-1.
- Molecular spectra; Upper photosphere; Best-fit model; Carbon abundance; 13984. SP305-6.
- Molecular spectra; Upper photosphere; Best-fit model; Carbon abundance; 14430. SP305-6.
- Molecular spectra; Upper photosphere; Best-fit model; Carbon abundance; 14567. SP305-6.
- Molecular spectroscopy; Indian Conference on Spectroscopy; International Conference on Spectroscopy; 9948. SP305-1.
- Molecular spectroscopy; Na<sub>2</sub>; Laser-induced fluorescence; Laser-molecular level crossing; Level crossing; Molecular fluorescence; 11549. SP305-2.
- Molecular spectroscopy; Na<sub>2</sub>; Resonance fluorescence; Alkali dimers; Laser-induced fluorescence; Molecular fluorescence; 11533. SP305-2.
- Molecular spectroscopy; NO, NO<sub>2</sub>, pollutant detection; Apparatus and methods; Infrared lasers; Magnetic resonance; 16456. SP305-8.
- Molecular spectroscopy; Quantum chemistry; Stimulated emission; Continuum emission; Lasers; Line shapes; 13832. SP305-6.
- Molecular spectroscopy; Radio astronomy; Sagittarius B2; Ethyl alcohol; Interstellar chemistry; Molecular cloud; 15001. SP305-7.
- Molecular spectroscopy; Spectroscopy; Vibrational fundamentals; Hydrogen cyanide; Infrared; 15925. SP305-8.
- Molecular states; Quantum chemistry; Atomic collisions; Fine-structure transitions; HF<sup>+</sup> molecule; 13258. SP305-5.
- Molecular states; Quantum chemistry; Atomic collisions; Fine-structure transitions; HF<sup>+</sup> molecule; 13273. SP305-5.
- Molecular structure; Barrier; *cis*-2-butene; Dipole moment; Internal rotation; Microwave spectrum; 11109. SP305-2.
- Molecular structure; Charge transfer; CO<sub>2</sub><sup>+</sup>; Infrared spectrum; Ion-molecule aggregates; Matrix isolation; 14722. SP305-7.
- Molecular structure; Critical evaluation; Crystal structure; Data analysis; 15483. SP305-7.
- Molecular structure; Dipole moment; Electrical discharge; Microwave spectroscopy; Rotational spectrum; Sulfur difluoride; 14355. SP305-6.

- Molecular structure; Dipole moment; Internal rotation; Methane sulfonyl fluoride; Methyl sulfone; Microwave spectra; 14402. SP305-6.
- Molecular structure; Negative hydroxyl ion; OD<sup>-</sup> ions; OH<sup>-</sup> ions; Photodetachment; Cross section; Electron affinity; 9285. SP305.
- Molecular structure; Neutron; Nuclear reactor; Radiation; Scattering; Crystal structure; Diffraction; 7N567. SP305-3.
- Molecular structure; Nickel hydride; Adsorption; Catalysis; Copper hydride; Magnesium oxide; SP455, pp. 53-58 (Nov. 1976). SP305-8.
- Molecular structure; Nuclear magnetic resonance; Oxo-bis(phenylhydrazono) compounds; Phenylhydrazono-phenylazo tautomerism; Phenylazones; Tautomerism; Ultraviolet spectra; Diphenylformazans; Enolic phenylhydrazono-phenylazo structure; Infrared spectra; 10286. SP305-1.
- Molecular structure; N<sub>2</sub>O + CO<sub>2</sub> reaction; O<sup>-</sup> + CO<sub>2</sub> reaction; O<sub>2</sub><sup>-</sup> + CO reaction; Charge transfer; CO<sub>2</sub><sup>-</sup>; CO<sub>3</sub><sup>-</sup>; CO<sub>3</sub><sup>-2</sup>; Infrared spectrum; 14563. SP305-6.
- Molecular structure; OCS; Spectra; Spectroscopy; Carbonyl sulfide; Energy levels;  $\theta$ -doublet transitions; Microwave spectra; 9919. SP305-1.
- Molecular structure; Orbitals; Potential energy curves; Pseudopotentials; Self-consistent field; Valence electrons; Basis functions; Configuration mixing; Dipole moments; Electronic structure of molecules; Hartree-Fock; Integrals, evaluation of; 16611. SP305-8.
- Molecular structure; Oxazine dyes; Quenching; Xanthene dyes; Aminocoumarins; Carbazine dyes; Deuterium effect; Fluorescence quantum yield; Laser dyes; *J. Res.* 80A No. 3, 421-428 (1976). SP305-8.
- Molecular structure; Pseudopotentials; 15815. SP305-8.
- Molecular structure; Quadrupole coupling constants; Rotational constants; Difluoroborane; Dipole moment; Microwave spectra; 10486. SP305-1.
- Molecular structure; Qualitative analysis; Quantitative analysis; Dipole moment; Microwave spectroscopy; Molecular rotation; 13536. SP305-5.
- Molecular structure; Radio astronomy; Chemical analysis; Dipole moment; Microwave; 13427. SP305-5.
- Molecular structure; Radio astronomy; Rotational spectrum; Formyl ion; Interstellar molecules; Microwave emission; 16560. SP305-8.
- Molecular structure; Raman spectra; Spectra; Sulfur trioxide; Air pollution; Infrared spectra; 13270. SP305-5.
- Molecular structure; Ring conformation; Rotational constants; Cyanocyclobutane; Dipole moment; Microwave spectrum; 14282. SP305-6.
- Molecular structure; Ring puckering vibration; Rotational spectrum; Silacyclobutane; Vibrational potential functions; Vibration-rotation interaction; Dipole moment; 12932. SP305-4.
- Molecular structure; Rotational constants; Spectra; Bond distances; Hydrogen cyanide; Infrared; Microwave; 12342. SP305-3.
- Molecular structure; Rotational constants; Bond angles; Boron-boron bond length; Boron hydrogen bond lengths; Diborane; High resolution; Infrared spectrum; 11640. SP305-2.
- Molecular structure; Rotational spectra; Spectra, rotational; Spectroscopy, microwave; Chemical analysis; Microwave spectroscopy; Microwave studies; 9893. SP305-1.
- Molecular structure; Rotational transitions; Aminodifluoroborane; Dipole moment; Gas-phase reaction; Microwave spectrum; 13841. SP305-6.
- Molecular structure; Silacyclopentane; Small-ring molecule; Stark effect; Dipole moment; Microwave spectrum; 16046. SP305-8.
- Molecular structure; Spectra; Absorption; Gas; Infrared; Methyl iodide; Molecular geometry; 11793. SP305-3.
- Molecular structure; Spectra; Bond distances; Cyanogen; Infrared; 9183. SP305.
- Molecular structure; Spectra; Deuterium cyanide; Hydrogen cyanide; Infrared spectra; Microwave spectra; Molecular constants; 10393. SP305-1.
- Molecular structure; Spectra; Sulfur trioxide; Air pollution; Bond distances; Infrared spectroscopy; 13320. SP305-5.
- Molecular structure; Spectroscopy; Cyclopropane; Energy levels; Infrared; l-type resonance; 12544. SP305-4.
- Molecular structure; Spectrum; Vibration; Cesium hydroxide; Dipole moment; High temperature; Microwave; 9895. SP305-1.
- Molecular structure; Stark effect; Rotational spectrum; Dipole moment; Ethynylidifluoroborane; Microwave spectrum; 12328. SP305-3.
- Molecular structure; Sulfur monoxide dimer; Rotational spectrum; Centrifugal distortion; Dipole moment; Microwave spectrum; 14434. SP305-6.
- Molecular structure; Tetrahedral; Crystal structure; Dichloro(1,10-phenanthroline)zinc; 9499. SP305.
- Molecular structure; Torsional oscillation; Barrier to rotation; Conformation; Crystal structure; Durene; Libration; Methyl benzenes, methyl group; 13222. SP305-5.
- Molecular structure; Vibrational resonance; Energy levels; IC<sub>2</sub>; Infrared spectroscopy; Microwave spectroscopy; 1121. SP305-2.
- Molecular structure; Vibration-rotation interaction; Alkyl hydroxides; Anharmonicity; Force constants; Microwave spectrum; 11045. SP305-2.
- Molecular structure, NbF<sub>5</sub>; Vibrational assignment; Infrared spectrum; Knudsen effusion; Matrix isolation; 13060. SP305-5.
- Molecular term values; Spectra; Spectroscopy; High temperature; Hydrogen cyanide; Infrared; 15436. SP305-7.
- Molecular theory; Rubber elasticity; Free energy; 1173. SP305-2.
- Molecular thermodynamics; Prigogine's cell theory; The dynamic properties; Three-parameter theorem; Argon; Molecular complexity; 9386. SP305.
- Molecular vaporization; Organic plasticizers; Plasticizers; Solubility parameters; Energy of vaporization; Internal energies; Vaporization; 11564. SP305-2.
- Molecular vibration; Neutralization; Oxygen; Tungsten; 11 tungsten; Chemisorption; Desorption; Electron impact; 11376. SP305-2.
- Molecular vibration; Tungsten; Carbon monoxide; Chemisorption; Flash desorption; Infrared spectroscopy; 14511. SP305-6.
- Molecular vibrational frequencies; Molecular spectra; Raman spectra; Data; Force constants; Infrared spectra; Modes of vibration; NSRDS-NBS11. SP305.
- Molecular vibrations; Neutron spectra; Phase transitions; Potential barrier; Rotation; Thiourea; Urea; Ferroelectric; Libration; 10425. SP305-1.
- Molecular weight; Molecular weight distribution; National Bureau of Standards; Pellet variability; Standard reference material; Fractionation; Linear polyethylene; *J.76A No. 137-138* (1972). SP305-4.
- Molecular weight; Molecular weight distribution; Osmometry; SRM 705; SRM 706; SRM 1475; SRM 1476; Characterization; Gel permeation chromatography; Light scattering; 12513. SP305-4.
- Molecular weight; Molecular weight distribution; Polyethylene standard; Polystyrene standard; Standard reference material; Standard reference polymers; Gel permeation chromatography; Calibration; Limiting viscosity number; 14036. SP305-6.
- Molecular weight; n-alkanes; Polyethylene; Polystyrene; Differential refractive index; Differential refractometer; Lorentz-Lorenz; 12428. SP305-4.
- Molecular weight; Nucleation theory; Polyethylene; Surface energies; Chain folds; Fractions; Homogeneous nucleation; *J.79A No. 6, 701-711* (1975). SP305-7.



- Molecular weight; Nucleation theory; Polyethylene; Regime I; Regime II; Spherulite; Axialite; Chain folds; Crystallization rate; *J79A No. 6, 671-699 (1975). SP305-7.*
- Molecular weight; Numerical solutions; Router slowing; Sedimentation equilibrium; Ultracentrifugation; Lamm equation; *10508. SP305-1.*
- Molecular weight; Permeation; Porous glass; Proteins; Sodium dodecyl sulfate; Chromatography; Controlled pore glass; Denaturing solvents; Glass; *14068. SP305-6.*
- Molecular weight; Polymer; Polyvinyl acetate; Copolymer; Intrinsic viscosity; Latex; Mark-Houwink; *9581. SP305-1.*
- Molecular weight; Purity; Calorimetry; Cryoscopy; Dilatometry; Freezing; Heat of fusion; Melting; Melting point; *10963. SP305-2.*
- Molecular weight; Stockmayer-Fixman; Unperturbed dimensions; Viscosity; 1-chloronaphthalene; 1,2,4-trichlorobenzene; Fractionation; Limiting viscosity number; Linear polyethylene; Mark-Houwink; *14054. SP305-6.*
- Molecular weight average; Molecular weight distributions; Moments; Polydispersity; Polynomial representation; Sedimentation equilibrium; *J71A1-431, 13-17 (1967). SP305.*
- Molecular weight determination; Sedimentation coefficient; Translational diffusion coefficient; Zimm theory; Bead-spring model; Block copolymers; Dilute polymer solutions; Limiting viscosity number; Mandelkern-Flory-Scheraga equation; *16026. SP305-8.*
- Molecular weight distribution; Monodisperse poly- $\alpha$ -methylstyrene; Thermal degradation; Mixtures; *15543. SP305-7.*
- Molecular weight distribution; National Bureau of Standards; Pellet variability; Standard reference material; Fractionation; Linear polyethylene; Molecular weight; *J76A No. 2, 137-138 (1972). SP305-4.*
- Molecular weight distribution; Normal stress; Polystyrene solutions; Standard sample; Streaming birefringence; *14128. SP305-6.*
- Molecular weight distribution; Number average molecular weight; Osmometry; Refractive index; Standard reference material; Viscosity; Weight average molecular weight; Z average molecular weight; Density; Differential refractive index; *SP260-42. SP305-4.*
- Molecular weight distribution; Osmometry; SRM 705; SRM 706; SRM 1475; SRM 1476; Characterization; Gel permeation chromatography; Light scattering; Molecular weight; *12513. SP305-4.*
- Molecular weight distribution; Polyethylene standard; Polystyrene standard; Standard reference materials; Standard reference polymers; Gel permeation chromatograph calibration; Limiting viscosity number; Molecular weight; *14036. SP305-6.*
- Molecular weight distribution (MWD); Number average; Weight average; Gel permeation chromatography (GPC); Linear polyethylene; *J76A No. 2, 163-170 (1972). SP305-4.*
- Molecular weight distributions; Molecular weights; Thermal polystyrene; Polymers; Polystyrene degradation; Pyrolysis; Thermolysis; Anionic polystyrene; *J77A No. 1, 157-170 (1973). SP305-5.*
- Molecular weight distributions; Moments; Polydispersity; Polynomial representation; Sedimentation equilibrium; Molecular weight average; *J71A1-431, 13-17 (1967). SP305.*
- Molecular weight distributions; Polymers; Polystyrene degradation; Pyrolysis; Anionic polystyrene; *14565. SP305-6.*
- Molecular weights; Polymer; Preparation; Purity; Sampling; Standard sample; Volatile content; Ash content; Elemental analysis; Homogeneity; Lithium content; *J71A1-435, 43-47 (1967). SP305.*
- Molecular weights; Polystyrene; Pyrolysis; Theory of free radical degradation; Computer calculation; Intermolecular transfer; *10120. SP305-1.*
- Molecular weights; Thermal polystyrene; Polymers; Polystyrene degradation; Pyrolysis; Thermolysis; Anionic polystyrene; Molecular weight distributions; *J77A No. 1, 157-170 (1973). SP305-5.*
- Molecular x-ray emission; Multiple vacancies; Cl  $K\beta$ ,  $CH_3Cl$ ; Double electron process;  $L_{23}$  of argon, Cl and K in KCl; *12653. SP305-4.*
- Molecular-beam data; Ortho-para transitions; Radio frequency; Group theory; Inversion splitting; Methane; *12323. SP305-3.*
- Molecular-reorientation; NMR-relaxation-times;  $^{19}F$ ;  $^{31}Cl$ ; Angular-momentum; Correlation-times; *14422. SP305-6.*
- Molecular-sieve gas analysis; Polytetrafluoroethylene; Analysis of methane-hydrogen mixtures; Beryllium fluoride; Beryllium metal; Combustion calorimetry; Fluorine; Heat of formation; *J73A No. 3, 281-297 (1969). SP305-1.*
- Molecule; Atom; Cross section; Elastic scattering; Electron; *12283. SP305-3.*
- Molecule; Atom; Cross section; Electron; *12161. SP305-3.*
- Molecule; Atom; Cross section; Electron; *11590. SP305-2.*
- Molecule; Deuterium; Dissociation; Electron; Hydrogen; *12058. SP305-3.*
- Molecule; Electron; Collision cross section; Atom; *M289. SP305.*
- Molecule; Negative ion;  $O^-$ ;  $O_3^-$ ; Photodetachment; Photodissociation;  $CO_3^-$ ;  $CO_3^- \cdot H_2O$ ;  $D$  region; Electron density; *15877. SP305-8.*
- Molecule; Negative ion;  $O_2^-$ ;  $O_3^-$ ;  $O_4^-$ ; Photodetachment; Photodissociation; Cross section; Drift tube; Experimental; *15478. SP305-7.*
- Molecule;  $NO_2$ ;  $NO_2^+ \cdot N_2O^+$ ; Photoionization; Threshold; Ultraviolet; Vacuum; Dissociation; Fragment ions; Ionization; Mass spectrometer; *J71A5-467, 371-378 (1967). SP305.*
- Molecule;  $N_2^+$ ; Radiative; Transition probability;  $CO^+$ ;  $CO_2^+$ ; Coincidence; Electron impact; Ions; Lifetime; *15912. SP305-8.*
- Molecule; Photon; Positron; Atom; Collision cross section; Detachment; Dissociation; Elastic scattering; Electron; Excitation; Fluorescence; Ion; Ionization; *SP426. SP305-8.*
- Molecule; Primary standards; Properties; Atom; Energy generation; Industrial technology; *NBSIR 75-944. SP305-8.*
- Molecule formation; Non-adiabatic interactions; Radiative association; Two-body recombination rates; Bates mechanism; Feshbach-type resonance states; Inverse predissociation; *14647. SP305-6.*
- Molecule-fixed axes; Reference configuration; Constraint equations; Eckart conditions; Eulerian angles; Large amplitude vibrational coordinate; *12117. SP305-3.*
- Molecule-fixed axes; Selection rules; Vibration-rotation Hamiltonian; Angular momentum; Bimolecular complex; Collisions; Group theory; *13080. SP305-5.*
- Molecule-fixed components; Total angular momentum; Commutation relations; Eulerian angles; Ladder operators; Linear molecules; *13878. SP305-6.*
- Molecules; Atoms; Electron excitation; Excitation transfer; Gaseous electronics; Lasers; *14849. SP305-7.*
- Molecules; Cesium; Inert gas; Line broadening; *13011. SP305-4.*
- Molecules; Nitrogen; Electrons, ions; *15298. SP305-7.*
- Molecules; Noble gases; Lithium; *15289. SP305-7.*
- Molecules; Noble gases; Radiation; Sodium; *15167. SP305-7.*
- Molecules; Nuclei; Orientation; Angular momentum; Atoms; *13156. SP305-5.*
- Molecules; Optical pumping; *13914. SP305-6.*
- Molecules; Orion; Radio astronomy; Sulfur dioxide; Interstellar; Microwave spectra; *16434. SP305-8.*
- Molecules; Potential functions; Empirical and semi-empirical; Transport properties; Virial coefficients; Atoms; Compressibility; Heat of sublimation; *TN246. SP305.*
- Molecules; Pressure broadening; Radiation; Relaxation; Spectra; Symmetry; Collisions; Gases; *9578. SP305-1.*

- Molecules; Radiation; Thallium; 16094. SP305-8.
- Molecules; Rare-gas; Spectra; Alkali-metal; Continuum; 13833. SP305-6.
- Molecules; Rate coefficients; Reactions; Atoms; Bibliography; Cross-sections; Ions; SP381. SP305-5.
- Molecules; Recombination; 14184. SP305-6.
- Molecules; Rubidium; 14183. SP305-6.
- Molecules; Spectroscopy; Sun-molecules; 9953. SP305-1.
- Molecules; Surfaces; Adsorption; Chemisorption; Electronic properties of solids; 15758. SP305-8.
- Molecules; Surfaces; Chemisorption; 14165. SP305-6.
- Molecules; X-ray spectra; Molecular energy levels; 9443. SP305.
- Molecules in sun; Solar spectrum; Wavelengths of solar lines; Elements in sun; Equivalent widths of solar lines; Identification of solar lines; *Mono.* 61. SP305.
- Molloy-Weber relations; NaCl; Point-ion potential;  $\text{SrF}_2$ ;  $U$  centers;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ; Ionic polarization; KCl; *J.77A No. 5*, 659-665 (1973). SP305-5.
- Molloy-Weber relations; NaCl; Point-ion potential;  $\text{SrF}_2$ ;  $U$  centers;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ;  $\text{CdF}_2$ ; Ionic polarization; KCl; 13963. SP305-6.
- MOL-ΣΣ facility; Uranium-238 capture rates; Fast reactors; Fission chambers; Fission rates; Mass assay; SP425, pp. 258-261. SP305-7.
- Molten alumina; Temperature measurement; Vaporization; Vapor pressure; Water in alumina; Water vapor; Alumina; Arc-image furnace; Heat of vaporization; 9675. SP305-1.
- Molten fluorides; Molten salt reactor; Oxide solid solutions; Plutonium dioxide; Protactinium dioxide; Thorium dioxide; Uranium dioxide; Activity coefficients in solid solutions; Equilibria with molten fluorides; SP364, pp. 331-341. SP305-4.
- Molten glasses; Ultrasonic relaxation; Viscosity; Glasses; Liquid viscosities; 10673. SP305-1.
- Molten metals; Solute distribution; Thermal convection; Crystal growth; Fused salts; Magnetic fields; 9513. SP305.
- Molten salt; Transference numbers; Hexachloromolybdate complex ion; 11971. SP305-3.
- Molten salt halides; Thermodynamics; Complex molecules; Mass spectrometry; 12280. SP305-3.
- Molten salt mixtures; Molten salts; Surface tension; Thermodynamics of molten salts; Critically evaluated data; Equilibrium electrochemical cells; Excess entropies; Excess Gibbs free energies; Gibbs free energies; NSRDS-NBS28. SP305-1.
- Molten salt mixtures; Nitrates; Nitrites; Standard reference data; Surface tension; Viscosity; Data compilation; Density; Electrical conductance; *J. Phys. Chem. Ref. Data* 1, No. 3, 581-746 (1972). SP305-6.
- Molten salt mixtures; Standard reference data; Surface tension; Viscosity; Data compilation; Density; Electrical conductance; Fluorides; *J. Phys. Chem. Ref. Data* 3, No. 1, 1-115 (1974). SP305-6.
- Molten salt mixtures; Standard reference data; Surface tension; Viscosity; Chlorides; Data compilation; Density; Electrical conductance; *J. Phys. Chem. Ref. Data* 4, No. 4, 871-1178 (1975). SP305-7.
- Molten salt reactor; Oxide solid solutions; Plutonium dioxide; Protactinium dioxide; Thorium dioxide; Uranium dioxide; Activity coefficients in solid solutions; Equilibria with molten fluorides; SP364, pp. 331-341. SP305-4.
- Molten salts; Calorimeter; Calorimetry; Complex ion; Enthalpy determination; KCl- $\text{CdCl}_2$  system; 9485. SP305.
- Molten salts; Conductance; Diffusion; Electrodes; Electrolysis; Glass; 9408. SP305.
- Molten salts; Fused silica; Ion selectivity; Membrane potentials; 10608. SP305-1.
- Molten salts; Galvanic cells; Membrane potentials; 10437. SP305-1.
- Molten salts; Glass; Ion exchange; 10607. SP305-1.
- Molten salts; Glass electrode; Glass membrane potential; 13851. SP305-6.
- Molten salts; Standard reference data; Viscosity; Data compilation; Density; Electrical conductance; NSRDS-NBS1. SP305-1.
- Molten salts; Surface tension; Thermodynamics of molten salt; Critically evaluated data; Equilibrium electrochemical cell; Excess entropies; Excess Gibbs free energies; Gibbs free energies; Molten salt mixtures; NSRDS-NBS28. SP305-1.
- Molybdate; Molybdenum; Niobate; Niobium; Oxide; Single crystal; Tetramolybdate; X-ray structure determination; Alkali metal; Bronze; Heptagonal holes; Hexagonal tungsten bronze; Lattice image; SP364, pp. 15-27. SP305-4.
- Molybdates; Raman spectra; Tungstates; *J.72A No. 1*, 81-8 (1968). SP305-1.
- Molybdates; Tungstates; Crystal structure; Lanthanide compounds; SP364, pp. 445-456. SP305-4.
- Molybdenum; Homogeneous precipitation; Aluminum; Beryllium; Thermoanalytical standards; Tricalcium silicate; Spectrophotometry; Antimony; High precision determination; nickel; Simultaneous determination copper; Cobalt; TN40. SP305.
- Molybdenum; Mössbauer effect; Niobium; Alloys; Iron; Magnetic moments; 14487. SP305-6.
- Molybdenum; Mössbauer spectrometer; Mössbauer spectrometry; Nickel-61; Proportional detector; Radiochemist; Radioisotope dilution; Rutile; Self-consistent crystal field; Standard reference materials; Structure analysis; Calculations; TN501. SP305-2.
- Molybdenum; Molybdenum pentafluoride; Niobium; Radian temperature; Spectral emittance; Surface roughness; Thermodynamic properties; Associated vapors; Graphite; Heat capacity; NBSIR 73-280. SP305-6.
- Molybdenum; NBS LINAC; NBS reactor; Photon activation analysis sensitivities; Standard reference materials; Zinc; Activation analysis; Cockcroft-Walton neutron generator; Computer literature searching; Extraction; Group separation; Homogeneity testing; TN458. SP305-1.
- Molybdenum; Negative surface ionization; Desorption kinetics; Halogen surface lifetimes; 12825. SP305-4.
- Molybdenum; Nickel; Niobium; Platinum; Silver; Tantalum; Tin; Aluminum; Beryllium; Cobalt; Copper; Compilations; Electrical resistivity; Gold; Indium; Iron; Lead; Low temperature; Magnesium; TN365. SP305-1.
- Molybdenum; Nickel; Normalization; Standard reference materials; Thermal ionization; Isotope dilution; Isotope mass spectrometry; 14904. SP305-7.
- Molybdenum; Niobate; Niobium; Oxide; Single crystal; Tetramolybdate; X-ray structure determination; Alkali metal; Bronze; Heptagonal holes; Hexagonal tungsten bronze; Lattice image; Molybdate; SP364, pp. 15-27. SP305-4.
- Molybdenum; Niobium; Palladium (Pd); Platinum; Rhodium; Rhodium; Rigid band approximation; Tantalum (Ta); Thermal conductivity; Thermoelectric power; Transition metal Transport properties; Tungsten (W); Chromium; SP323, pp. 685-690. SP305-4.
- Molybdenum; Niobium; Plutonium; Potassium; Praseodymium; Promethium; Rhenium; Rubidium; Sodium; Surface diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; *J. Phys. Chem. Ref. Data* 4, No. 1, 177-250 (1975). SP305-7.
- Molybdenum; Niobium; Rubidium; Spectra; Strontium; Ultraviolet; Wavelengths; Yttrium; Zirconium; 12675. SP305-1.
- Molybdenum; Niobium; Spectra; Ultraviolet; Wavelength; Rhenium; 16425. SP305-8.
- Molybdenum; Nitrogen; Rhenium; Sticking coefficient; Tungsten; Carbon monoxide; High temperature; Isotopic mixtures; 11377. SP305-2.

Molybdenum; Nitrogen; Rhenium; Sticking coefficient; Tungsten; Carbon monoxide; Chemisorption; Isotopic mixing, flash desorption; *11484*. **SP305-2.**

Molybdenum; Optician; Polishing; Surfaces; Zinc selenide; Copper; *SP435*, pp. 10-13 (Apr. 1976). **SP305-8.**

Molybdenum; Photoemission; Tantalum; Tungsten; Electronic density of states; Fermi energy; *SP323*, pp. 53-56. **SP305-4.**

Molybdenum; Plastic flow; Poisson ratio; Refractory metals; Strain hardening; Strain rate; Stress strain diagrams; Tantalum; Tensile properties; Evaluation; High temperature tests; *13819*. **SP305-6.**

Molybdenum; Positive and negative ions; Self-surface ionization; Electron affinity; Ion sublimation energy; Mass spectrometry; *10347*. **SP305-1.**

Molybdenum; Premelting; Thermodynamics; Electrical resistivity; High-speed methods; High temperature; Melting point; Metals; *12231*. **SP305-3.**

Molybdenum; Quantitative analysis; Tin; X-ray fluorescence; Gamma-excitation; Medium-weight elements; *10365*. **SP305-1.**

Molybdenum; Radiance temperature; Wavelength; Melting point; *15557*. **SP305-7.**

Molybdenum; Radiochemical separations; Steels; Activation analysis; Biological materials; Hydrogen bis(2-ethylhexyl) phosphate; *11365*. **SP305-2.**

Molybdenum; Radiochemistry; Solvent extraction; Technetium; Tungsten; Activation analysis; *11462*. **SP305-2.**

Molybdenum; Radioisotope dilution; Substoichiometric; Toluene-3,4-dithiol; Tungsten; *14411*. **SP305-6.**

Molybdenum; Repassivation kinetics; Stainless steels; Stress corrosion; Testing techniques; Chloride; Crevice corrosion, ellipsometry failure prediction; *NBSIR 74-583*. **SP305-7.**

Molybdenum; Repassivation kinetics; Stress corrosion; Chemical breakdown of passivity; Chloride; Crevice corrosion; Ellipsometry; Iron; *NBSIR 75-916*. **SP305-8.**

Molybdenum; Rubidium; Strontium; Trace analyses; Cadmium; Environmental Standard Reference Materials; Isotope dilution; Lead; *16221*. **SP305-8.**

Molybdenum; Spectra; Ultraviolet; Wavelengths; *13085*. **SP305-5.**

Molybdenum; Thermal radiation properties; Thermodynamics; Electrical resistivity; Emission; Heat capacity; High-speed measurements; High temperature; *J.74A No. 1*, 65-92 (1970). **SP305-2.**

Molybdenum carbide; Niobium carbide; Reaction mechanism; Solid state; Tantalum carbide; Tungsten carbide; Vanadium carbide; Carbide; Crystal structure; *SP364*, pp. 561-566. **SP305-4.**

Molybdenum carbonyl; NMR spectroscopy; 1,3-dithiolene-2-thione; Chromium carbonyl; Infrared spectroscopy; Metal carbonyl; *15985*. **SP305-8.**

Molybdenum dendrites; Twin growth; Twinning; Twin plane reentrant edge; X-ray diffraction; Electrodeposition; *10732*. **SP305-1.**

Molybdenum disulfide; Solid lubricants; Wear; Fluoride films; Gears; *SP452*, pp. 132-148 (Sept. 1976). **SP305-8.**

Molybdenum disulfide; Spin axis gear bearings; Sputtered coatings; Surface characterization; Wear life; Antimony trioxide; Friction; *SP452*, pp. 177-186 (Sept. 1976). **SP305-8.**

Molybdenum (Mo); Optical density of states; Optical properties; Photoemission; Reflectivity; Tungsten (W); Zinc (Zn); Dielectric constant; Electronic density of states; *SP323*, pp. 209-215. **SP305-4.**

Molybdenum oxides; Orientation effects; Oxygen reduction; Electrochemistry; *SP455*, pp. 305-312 (Nov. 1976). **SP305-8.**

Molybdenum pentafluoride; Niobium; Radiance temperature; Spectral emittance; Surface roughness; Thermodynamic properties; Associated vapors; Graphite; Heat capacity; Molybdenum; *NBSIR 73-280*. **SP305-6.**

Molybdenum pentafluoride; Partly associated vapors; Solid-state transformations; Solution calorimetry; Specific heat; Spectral emittance; Transition alloys; Vapor pressure; Electrical resistivity; Iron; *NBSIR 73-281*. **SP305-6.**

Molybdenum-99; Nuclear medicine; Radiopharmaceuticals; Technetium-99m; Tin-113; Dose calibrators; Indium-113m; *TN791*. **SP305-5.**

MOM devices; Oxidation; Oxidation theory; Parabolic law for metal oxidation; Semiconductors; Conductivity; Electric field effects; Insulating films; Insulators; Metal oxidation; Metals; *16260*. **SP305-8.**

MOM diode; 3.39  $\mu\text{m}$  laser; CO<sub>2</sub> laser; Helium neon laser; Laser frequency measurement; *12529*. **SP305-4.**

Moment analysis; Chromatography; Curve fittings; *13746*. **SP305-5.**

Moment magnifier effect; Slenderness effects; Structural stability; Brick walls; Combined loading; Compressive strength; Flexural strength; High bond mortar; Masonry walls; *12869*. **SP305-4.**

Moment method; Neutron transport; Polynomial truncation errors; Sievert function; Biorthogonal polynomials; Gamma-ray transport; *J.75B Nos. 1 and 2*, 1-16 (1971). **SP305-3.**

Moment methods; Neutron transport; Polynomial representations; Radiation penetration; Biorthogonal function; Gamma-ray transport; *J. 76B Nos. 3 and 4*, 91-108 (1972). **SP305-4.**

Moment methods; Shielding; Adjoint; Buildup factor; Dosimetry; Gamma-ray transport; *TN748*. **SP305-5.**

Moment theory; Photoabsorption/ionization; Spectral densities; Electron scattering; *16359*. **SP305-8.**

Moments; Adjoint; Annihilation; Buildup factor; Concrete; Gamma radiation; *14940*. **SP305-7.**

Moments; Mössbauer effect; Ni; Alloys; Cu; Fe; Magnetism; *11490*. **SP305-2.**

Moments; Mossbauer effect; Superconductivity; Titanium; Alloys; Cobalt; Ferromagnetism; Hyperfine fields; Iron; *9576*. **SP305-1.**

Moments; Neutron penetration; Secondary gamma rays; Adjoint; Concrete; Gamma-ray penetration; *15453*. **SP305-7.**

Moments; Neutron scattering; RbMnF<sub>3</sub>; Sum rules; Heisenberg magnets; Longitudinal diffusivity; Longitudinal spectral weight function; *10834*. **SP305-1.**

Moments; Neutron transport; Reactor shields; Shielding; Concrete; Function fitting; *13910*. **SP305-6.**

Moments; Neutron transport; Shielding; Carbon; Computer code; Gauss quadrature; *TN725*. **SP305-4.**

Moments; Norbert Wiener; Office of Weights and Measures; Path-space measure; Pierre Simon de Laplace; Rejection of observations; Stirling's formula; Stirling's numbers; *Théorie analytique des probabilités*; William Chauvenet; *11618*. **SP305-2.**

Moments; Polydispersity; Polynomial representation; Sedimentation equilibrium; Molecular weight average; Molecular weight distributions; *J.71A1-431*, 13-17 (1967). **SP305.**

Moments; Probability distributions; Relaxation; Transition probabilities; Exponential relaxation; Master equation; *9527*. **SP305.**

Moments; Probability-distributions; Turbulence; Velocity-gradients; Computer; Correlations; Grid; Intermittency; Isotropy; *12316*. **SP305-3.**

Moments; Shielding; Computer code; Gamma rays; Gamma ray transport; Gauss quadrature; *TN766*. **SP305-5.**

Moments; Slenderness ratio; Stability; Structural engineering; Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry; *12227*. **SP305-3.**

Moments; Slenderness ratio; Stability; Structural engineering; Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry; *15507*. **SP305-7.**

- Moments method; Neutron penetration; Shielding; Weapons radiation; Benchmark problems; Dose distributions; *TN745*. SP305-5.
- Moments method; Point gamma source in water; Polynomial approximation; Radiation transport; Truncation error; Gamma ray penetration; *13188*. SP305-5.
- Moments methods; Neutrons; Shielding; Truncation errors; Biorthogonal functions; Gamma rays; *12863*. SP305-4.
- Momentum autocorrelation function; Statistical dynamics; Statistical mechanics; Coupled harmonic oscillators; *9389*. SP305.
- Momentum autocorrelation function; Statistical mechanics; Brownian motion; *10030*. SP305-1.
- Momentum correlation function; Statistical mechanics; Diffusion coefficients; *9376*. SP305.
- Momentum methods; Particle imaging; Particle measurements; Particle scattering; Particle size determinations; Particulates; Sprays; Aerosol instrumentation; Aerosol measurements; Aerosol review; Aerosols; Aerosol scattering; Aerosol sizing; Droplet imaging; *SP412*, pp. 1-12. SP305-6.
- Momentum transfer; Electronic excitation; Generalized oscillator strength;  $H_2O$ ; Inelastic electron scattering; *12506*. SP305-4.
- Momentum transfer; Negative glow plasma; Hall effect; Helium; Magnetic field; *14318*. SP305-6.
- Momentum transfer; Neutron scattering, quasielastic scattering; Vanadium hydride; Vibration; Debye-Waller factor; Hydrogen diffusion, interstitial site; Linewidth; *12822*. SP305-4.
- Momentum transfer; Neutron scattering; Optical spectroscopy; Torsional vibration; Barriers to rotation; Large amplitude vibrations; *14684*. SP305-6.
- Momentum transfer; Nitrogen molecules; Rotational excitation; Scattering theory; Sudden approximation; Close coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; *19551*. SP305-8.
- Momentum transfer; Nitrogen molecules; Rotational excitation; Scattering theory; Close coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; *16618*. SP305-8.
- Momentum transfer; Pair correlation; Shell model; Spurious; Sum rule; Electron scattering; *12043*. SP305-3.
- Momentum transfer; Particle-hole model; Quasi-elastic model; Radiation tail; Transverse; Electroexcitation; Energy dependent potential; Goldhaber-Teller model; Longitudinal; Matrix elements; *12853*. SP305-4.
- Momentum transfer; Phototransport; Scattering; Vacancies; Absorption; Electrotransport; Ionic segregation; Laser; *SP462*, pp. 365-370 (Dec. 1976). SP305-8.
- Momentum transfer; Polarization (of charge clouds); Rotational excitation; Scattering theory; Close-coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Exchange (of electrons); Hydrogen molecules; Inelastic scattering; *16532*. SP305-8.
- Momentum transfer; Rotational excitation; Scattering theory; Sudden approximation; Differential cross sections; Elastic scattering; Electron scattering; Hydrogen molecules; *15761*. SP305-8.
- Momentum transfer; X-ray absorption; X-ray inelastic scattering; Energy transfer; Lithium; *13983*. SP305-6.
- Momentum-dependence; Weisskopf-Wigner; CP-violation; Decays; Direct tests; Kaon; Lepton-asymmetry; *15211*. SP305-7.
- Monel; Corrosion; Dezincification; Electron probe microanalysis; *10796*. SP305-1.
- Monette single crystals; X-ray diffraction; Calcium coordinations; Calcium phosphates; Hydrogen bonding; *12914*. SP305-4.
- Monitor; Beam; Calibration electron; Faraday-cup; Ferrite; *12930*. SP305-4.
- Monitor; Beam; Calibration electron; Faraday-cup; Ferrite; *14442*. SP305-6.
- Monitor; Dialogue; Interaction; Man-computer; Measure; Model; *14088*. SP305-6.
- Monitor; Electron beam; Errors; Faraday cup; Ferrite; Linac; *14441*. SP305-6.
- Monitor; Neutron; Proportional; Counter; Flux; Hydrogen; *SP425*, pp. 78-80. SP305-7.
- Monitor tests; Neutron radiography; Ultrasonics; X rays; Compaction density; Eddy current measurements; Fuel rods; Impregnation density; *SP336*, p. 405. SP305-3.
- Monitoring; Operating systems; Performance objectives; Computer architecture; Computer performance evaluation; Installation management; Measurement; Modeling; *SP406*. SP305-7.
- Monitoring; Particle sizing; Time resolution; Aerosol; California aerosol monitoring program; Elemental analysis; Ion beam analysis; *SP422*, pp. 1119-1136 (Aug. 1976). SP305-8.
- Monitoring; Procedural-oriented languages; Compiler; Debugging; Error diagnostic; High-level programming languages; *TN763*. SP305-5.
- Monitoring; Water; Water quality; Accuracy; Data interpretation; *SP422*, pp. 91-107 (Aug. 1976). SP305-8.
- Monitoring priorities; Product classes; Test methods; Voluntary Education; Efficiency comparison; Household appliances; Household equipment; Label developments; Labeling; Label specification; *15204*. SP305-7.
- Monitoring register; Software monitoring; System reliability; Hardware monitoring; *SP406*, pp. 87-96. SP305-7.
- Monitoring systems; Diagnostic systems; Diesel engines; Maintenance costs; *NBS-GCR-75-43*. SP305-8.
- Monitors; Standards; Air pollution; Analyzing; Gas analysis; Gases; Emission; *15982*. SP305-8.
- Mono-, bis-, and tris-(phenylhydrazones); Phenylazo compounds; Absorption spectra; Infrared spectra; *J71A4-455*, 277-285 (1967). SP305.
- Monocalcium phosphate; Monohydrate; Neutron diffraction; Phosphate; Water molecule; Hydrate; Hydrogen bonding; *14864*. SP305-7.
- Monocalcium phosphate monohydrate; Pit and fissure sealant; Phosphoric acid; Enamel; Hydroxyapatite; *13856*. SP305-6.
- Monocalcium phosphate monohydrate, single crystal x-ray diffraction; Calcium phosphates; Crystal structure; Hydrate; Calcium phosphate; Hydrogen bonding; *12921*. SP305-4.
- Monochlorocarbodiimide; Monochlorocyanamide; NCN reactions; Photolysis; Thermodynamic properties; C atom reactions; Cyanogen azide; Electronic spectrum; Force constant; HCl free radical; HCl reaction; Infrared spectrum; Matrix isolation; *10275*. SP305-1.
- Monochlorocyanamide; NCN reactions; Photolysis; Thermodynamic properties; C atom reactions; Cyanogen azide; Electronic spectrum; Force constants; HCl free radical; H reaction; Infrared spectrum; Matrix isolation; Monochlorocarbodiimide; *10275*. SP305-1.
- Monochromatic electrons; Photoionization source; *1421*. SP305-6.
- Monochromatic (laser) light; Negative ions; Electron affinity; Electrons; Energy analysis; Helium; Laser photodetachment; *10320*. SP305-1.
- Monochromatic yields; Purity; X-ray beams; Beryllium to gold; Electron produced; High intensity; *12214*. SP305-3.
- Monochromator; Photoionization;  $C_6D_4$ ;  $C_6H_4$ ;  $C_2D_2$ ;  $C_2H_2$ ;  $C_2D_4$ ;  $C_2D_6$ ; Mass spectrometer; *9589*. SP305-1.
- Monochromator; Profile scans; Stark profiles; T-tube; C II; C II; Experimental; *10220*. SP305-1.
- Monochromator; Thermopile; Absolute radiometry; Detection; Extreme ultraviolet; Ionization chamber; *10469*. SP305-1.
- Monochromator; Vacuum ultraviolet; Halogen molecules; Fluorine; Ionization threshold; Mass spectrometry; *1244*. SP305-4.



Monochromator alignment; 0.06 Å resolution; Spectrograph; Synchrotron light; Grazing-incidence; 3-meter; 9355. **SP305.**

Monochromators; Single crystals; X-ray resonators; 10478. **SP305-1.**

Monoclinic crystal; Low temperature; Planar molecular structure; Spherical shell molecules; Vitreous state; Arsenious oxide; Arsenolite; Claudetite; Crystal transition; Cubic crystal; Glass; Heat capacity; 12311. **SP305-3.**

Monoclinic crystals; Phosphoric acid hemihydrate; Crystal structure; 11229. **SP305-2.**

Monoclinic symmetry; Octahedral coordination; Transition metal-Co(III)-coordination complex; Diipyridine and nitrate ligands; Hydrogen bonding; 12557. **SP305-4.**

Monodeuterioethane; Perturbations; Rotational constants; Symmetric top; Infrared; Molecular geometry; 13142. **SP305-5.**

Monodeuteriosilane; Perturbation allowed transitions; Rotational constants; Stretching vibrations; Infrared spectrum; 13689. **SP305-5.**

Monodisperse poly- $\alpha$ -methylstyrene; Thermal degradation; Mixtures; Molecular weight distribution; 15543. **SP305-7.**

Monodisperse polymers; Unsaturated monomers; Block copolymers; Homogeneous anionic polymerization; 16057. **SP305-8.**

Monodisperse, polystyrene, poly- $\alpha$ -methylstyrene; Polyisoprene; Polybutadiene; Homogeneous anionic polymerization; 170A5-414, 421-433 (1966). **SP305.**

Monodispersed polystyrene; Binary mixtures; Glass transition temperature; 178A No. 4, 447-451 (1974). **SP305-6.**

Monoelectronic electrons; Monte Carlo calculations; Response function; Semiconductor detectors; Silicon; 10629. **SP305-1.**

Monoelectronic neutrons; Neutron beams; Neutron filters; Neutrons; Reactors; Resonant scatterer; SP456, pp. 83-85 (Nov. 1976). **SP305-8.**

Monoelectronic x-ray beams; Optimum radiographic systems; Transmission radiography; X-ray image signals; X-ray scatter; Image contrast; 15276. **SP305-7.**

Monoelectronic electron; Atomic source; Electron source; 10432. **SP305-1.**

Monohydrate; Neutron diffraction; Phosphate; Water molecule; Hydrate; Hydrogen bonding; Monocalcium phosphate; 14864. **SP305-7.**

Monolayer; Oxygen; Photoyield; Sensitivity; Tungsten; Carbon monoxide; ESCA; 14027. **SP305-6.**

Monolayers; Nitrogen; Oxygen; Photoelectron spectra; Relaxation energy; Surfaces; Tungsten; Ultraviolet photoemission; Valence band; Virgin states;  $\alpha$  states;  $\beta$  states; Adsorption; Carbon; Carbon monoxide; Chemical bonding; Chemisorption; 16419. **SP305-8.**

Monolayers; Surface processes; Atomic layers; Chemisorption; Cyclic-voltammetry; Electrochemical adsorption; SP455, pp. 107-124 (Nov. 1976). **SP305-8.**

Monolithic microcircuits; Reliability; Semiconductor devices; Silicon; Test methods; Microelectronics; 10858. **SP305-1.**

Monomers; Operative dentistry; Reinforcements; Clinical evaluation; Clinical research; Composite restorations; Dental restorations; Dentistry; 13854. **SP305-6.**

Monomers; Operative dentistry; Reinforcements; Clinical evaluation; Clinical research; Composite restorations; Dental restorations; Dentistry; 14058. **SP305-6.**

Monomers; Perfluorostyrene; Phenyl ethers; Polymerizations; Fluorine-containing monomers; Fluorodienes; Fluoroolefins; Fluoro monomers; Fluoropropylenes; Fluorovinyl; Free radical; Gamma rays; High pressures; Ionic catalysts; 10118. **SP305-1.**

Monomers; Polymers; Primers; Sealants; Adhesion; Bonding; Composites; Coupling agents; 15374. **SP305-7.**

Monomers; Prostheses; Resins; Restorative material; Biomaterials; Composites; Dentistry; Fillers; Glass; Methacrylates; SP354, pp. 93-100. **SP305-4.**

Monomers; Resins; Synthesis; Composites, dimethacrylates; 15159. **SP305-7.**

Monopole excitation; Monopole strength;  $^4\text{He}$ ; Electrodissintegration; Electron scattering; Inelastic electron scattering; 15105. **SP305-7.**

Monopole state; Multipole decomposition; Zero range approximation; Continuum; Electron scattering; Helium-3; 15608. **SP305-7.**

Monopole strength;  $^4\text{He}$ ; Electrodissintegration; Electron scattering; Inelastic electron scattering; Monopole excitation; 15105. **SP305-7.**

Monopolies; New information; Patent reform; Patent system; Economic tradeoffs; SP388, pp. 11-14. **SP305-6.**

Monopoly; Patent system; Property rights; Validity of patents; Inventor; SP388, pp. 119-126. **SP305-6.**

Monotonicity; Numerical integration; Quadrature; Riemann integral; Bounded variation; Improper integral; 13858. **SP305-6.**

Monotonicity; Principal submatrix; Spectral radius; Vector norm; Consistency; Matrix norm; J.79B Nos. 3 and 4, 97-102 (1975). **SP305-7.**

Monovalent metal azides;  $\text{NaN}_3$  structure; Neutron diffraction;  $\text{RbN}_3$  structure; Thermal motion;  $\text{TiN}_3$  structure; Ionic crystal;  $\text{KN}_3$  structure; Low temperature study; 15973. **SP305-8.**

Monoxide; Rhenium; Ruthenium; Surface migration; Carbon monoxide; Desorption; Field emission; 11819. **SP305-3.**

Montana; Precambrian; Wyoming; Correlation; Geochronology; Geology; 9627. **SP305-1.**

Monte Carlo; Cross section; Fission neutrons; Inelastic scattering; Iron; Minima; SP425, pp. 440-443. **SP305-7.**

Monte Carlo; Multigroup; Reactor; Resonance; Slowing-down; Stochastic; Transport; Benchmark; Cross section; Eigenvalue; SP425, pp. 451-454. **SP305-7.**

Monte Carlo; Multiple integral; Numerical analysis; Numerical integration; Quadrature; Integral; Integration; Modified Monte Carlo; 10751. **SP305-1.**

Monte Carlo; Multiple integrals; Numerical integration; Numerical methods; Quadrature; Random; Degree of precision; Hadamard matrices; Integration; 11583. **SP305-2.**

Monte Carlo; Multiple integration; Multiple quadrature; Numerical analysis; Numerical integration; Optimal formulas; Quadrature; Best integration formulas; Diophantine approximation; Gaussian quadrature; Integration; 13986. **SP305-6.**

Monte Carlo; Multiple scattering; Charge deposition; Electrons; Energy deposition; Flux; 11491. **SP305-2.**

Monte Carlo; Multiple scattering; Neutron; Time-of-flight; Associated-particle; Cross-section; TN499. **SP305-1.**

Monte Carlo; Multiple scattering; Transport calculations; Electrons; Energy deposition, microdosimetry; 17119. **SP305-2.**

Monte Carlo; Neutron attenuation; Time of flight; Ilmenite concrete; SP425, pp. 409-414. **SP305-7.**

Monte Carlo; Neutron yield; Photoneuclear cross sections; Photoneutrons; Radiation transport; Bremsstrahlung; 13263. **SP305-5.**

Monte Carlo; Neutrons; Oxygen; Protons, time delay; Time smearing; Deuterium; Moderator; 13345. **SP305-5.**

Monte Carlo; Neutrons; Scintillators; Time-of-flight; Detector; Flux; SP425, pp. 73-74. **SP305-7.**

Monte Carlo; Non-selfintersecting walks; Polymer configurations; Random walks; Boltzmann factors; Importance sampling; J. 76B Nos. 3 and 4, 193-200 (1972). **SP305-4.**

Monte Carlo; Particle analysis; Continuous radiation; Electron probe microanalyzer; Glass standard; Lithium drifted silicon detector; SP422, pp. 1283-1291 (Aug. 1976). **SP305-8.**

Monte Carlo; Penetration; Thick target bremsstrahlung; Transport theory; Aluminum transmission; Bremsstrahlung; Electrons; 11570. **SP305-2.**

- Monte Carlo; Photon neutron; Radiation transport; Thick targets; Bremsstrahlung; Bremsstrahlung efficiency; 11799. SP305-3.
- Monte Carlo; Polymer; Simulation; Chain dynamics; Lattice model; 11466. SP305-2.
- Monte Carlo; Polymer chain dynamics; Relaxation; End-to-end length; Excluded volume; 12408. SP305-4.
- Monte Carlo; Polymer chain dynamics; Relaxation; Simulation; Distribution; End-to-end length; Lattice model; 9514. SP305.
- Monte Carlo; Polymer chain dynamics; Relaxation times; Excluded volume; Lattice-model polymer chains; 14024. SP305-6.
- Monte Carlo; Polymer chain dynamics; Relaxation times; Lattice-model polymer chains; 14025. SP305-6.
- Monte Carlo; Polymer chain dynamics; Random-coil; End-to-end length; 14401. SP305-6.
- Monte Carlo; Polymer solution; Radii of gyration; Theta point; Excluded volume; 14020. SP305-6.
- Monte Carlo; Polymers; Adsorption; Configurations; Four-choice cubic lattice; 10257. SP305-1.
- Monte Carlo; Polymers; Random walks; Thermodynamics; Excluded volume; Lattice; 11218. SP305-2.
- Monte Carlo; Probability; Resonance; Thinning; Unresolved; Cross section; Interpolation; SP425, pp. 447-450. SP305-7.
- Monte Carlo; Radiation transport; Atmosphere; Aurora; Electron; Energy deposition; 11720. SP305-2.
- Monte Carlo; Radiochromic dyes; Two-layer slabs; Depth-dose; Dose distribution; Dosimetry; Dye film; Electron beams; Film dosimeter; Interfaces; 13212. SP305-5.
- Monte Carlo; Reflection; Albedo; Angular distribution; Backscatter; Charged particles; 16097. SP305-8.
- Monte Carlo; Response function; Sodium iodide; Detector; Electron; Gamma ray; 12743. SP305-4.
- Monte Carlo; Structure shielding; Angular distributions; Civil defense; Fallout; Gamma radiation; 12764. SP305-4.
- Monte Carlo; Vacuum; Vacuum gauge; Vane gauge; Molecular flow; 11155. SP305-2.
- Monte Carlo analysis; Ordered spans; Self-avoiding polymer chains; Shape of polymer chains; Spans; Unrestricted polymer chains; 15622. SP305-7.
- Monte Carlo calculation; Response; Scintillation detector; Background; Gamma-ray astronomy; Induced radioactivity; 16431. SP305-8.
- Monte Carlo calculation; Satellite altitudes; Atmosphere; Auroral electrons; Bremsstrahlung; Energy spectra; 14452. SP305-6.
- Monte Carlo calculation; Theory of diffusion; Vacancy diffusion; Computer simulation; Correlation factor for diffusion; Diffusion; Matrix calculation; 16073. SP305-8.
- Monte Carlo calculations; Atmosphere; Backscattering; Bremsstrahlung; Electron; Energy deposition; Flux spectrum; 14045. SP305-6.
- Monte Carlo calculations; Multiple scattering; Industrial gauging; Isotopes; SP425, pp. 500-503. SP305-7.
- Monte Carlo calculations; Multiple scattering x-ray generation; Particle analysis; Quantitative x-ray microanalysis; Thin films; X-ray emission; Electron trajectories; Magnetic effects; SP460, pp. 105-128 (Dec. 1976). SP305-8.
- Monte Carlo calculations; Particulates; Quantitative analysis; Thin films; X rays; Electron probe microanalysis; 16410. SP305-8.
- Monte Carlo calculations; Resolution; Response function; Sodium iodide detector; Detection efficiency; Energy deposition spectrum; Gamma ray spectrum; 13043. SP305-4.
- Monte Carlo calculations; Response function; Semiconductor detectors; Silicon; Monoenergetic electrons; 10629. SP305-1.
- Monte Carlo calculations; Semi-infinite aluminum medium; Silicon detector; Absorbed energy vs depth; Absorbed-energy distributions; Incident monoenergetic electrons; 12140. SP305-3.
- Monte Carlo calculations for corrections; Total energy weighting technique;  $4\pi\beta$  detector; Absolute values; Fluctuations; SP425, pp. 957-960. SP305-7.
- Monte Carlo electron trajectory calculations; Particle analysis; Scanning electron microscopy; Thin film analysis; Electron probe microanalysis; Electron-solid interactions; Magnetic domains; SP460. SP305-8.
- Monte Carlo electron trajectory calculations; Scanning electron microscopy; X-ray microanalysis; Electron probe microanalysis; Electron scattering; Electron-specimen interactions; SP460, pp. 5-14 (Dec. 1976). SP305-8.
- Monte Carlo electron trajectory simulation; Scanning electron microscopy; Secondary electrons; X rays; Backscattered electrons; Electron probe microanalysis; SP460, pp. 15-44 (Dec. 1976). SP305-8.
- Monte Carlo electron trajectory simulation; Scanning electron microscopy; X-ray generation; Electron microscopy; Electron probe microanalysis; Electron-specimen interactions; SP460, pp. 45-60 (Dec. 1976). SP305-8.
- Monte Carlo electron trajectory calculations; Scanning electron microscopy; X-ray microanalysis; Electron energy loss; Landau electron deceleration theory; Microanalysis; SP460, pp. 61-96 (Dec. 1976). SP305-8.
- Monte Carlo electron trajectory calculations; Nuclear backscattering analysis; Scanning electron microscopy; Thin films; X-ray analysis; Electron probe microanalysis; SP460, pp. 129-138 (Dec. 1976). SP305-8.
- Monte Carlo electron trajectory calculations; Scanning electron microscopy; Contrast calculations; Energy filtering; Low-loss electron image; Magnetic contrast; SP460, pp. 139-150 (Dec. 1976). SP305-8.
- Monte Carlo electron trajectory calculations; Scanning electron microscope; Iron-silicon transformer steel; Magnetic contrast; Magnetic domain images; Magnetic domains; SP460, pp. 151-164 (Dec. 1976). SP305-8.
- Monte Carlo method; Spin system; Triangular lattice; Conditional probability; Ising spin; 15865. SP305-8.
- Monte Carlo method; Triplet correlation function; Closure approximation; High pressure; Lennard-Jones potential; Liquid densities; 13153. SP305-5.
- Monte Carlo method; 14 MeV neutron shielding; Application of nuclear cross section; SP425, pp. 426-430. SP305-7.
- Monte Carlo methods; Quantitative analysis; Scanning electron microscopy; Electron probe microanalysis; Empirical methods; Fe-Si alloys; 15246. SP305-7.
- Monte Carlo methods; Scanning electron microscopy; Transformer steel; Contrast mechanism; Electron backscattering energy filtering; Iron; Magnetic domains; 13731. SP305-5.
- Monte Carlo predictions; Photon emission angles; Thick target bremsstrahlung; Efficiencies; Low energy; 9991. SP305-1.
- Monte Carlo simulation; Nucleation; Overcompression; Supercooling; Glassy state; Lennard-Jones system; J. Res. 80A No. 1, 59-64 (1976). SP305-8.
- Monte Carlo simulation; Particulate analysis; Scanning electron microanalysis; X-ray microanalysis; X-ray source size; Backscattered electrons; Electron specimen interaction; 15038. SP305-7.
- Monte Carlo simulation; Symmetry change; Van der Waals isotherm; Fluid-solid phase transition; Lennard-Jones model; Melting and freezing densities; 14736. SP305-7.
- Monte Carlo Studies; Coexisting densities; Finite system; "flat loop"; Fluid-solid phase transition; Lennard-Jones System; 15176. SP305-7.
- Monte Carlo transport; Stopping power; Thin film; Calorimetry; Depth dose; Dose distributions; Dye films; Electron beams; Interface; 13558. SP305-5.
- Monte-Carlo; Multiple integration; Numerical analysis; Numerical integration; Quadrature; Analysis; Integration; Mathematics; 9321. SP305.

Monte-Carlo; Multiple integration; Numerical analysis; Numerical integration; Quadrature; Analysis; Integration; Mathematics; 10152. SP305-1.

Monte-Carlo calculations; Thin layers; Data reduction; Electron probe; 13526. SP305-5.

Monte-Carlo computations; Near-neighbor interactions; Phase transition; Stochastic matrix; Theta point; Chain partition function; 11908. SP305-3.

Monte-Carlo computations, phase transition; Scattering function; Chain correlation; Chain statistical parameters; Light scattering; 15209. SP305-7.

Monumental brasses; Neutron activation; Preservation of historical objects; Wear; 13847. SP305-6.

Moon; Absolute radiometric calibration—astronomical; Absolute radiometric calibration—infrared; Absolute radiometric calibration—microwave; Lunar surface; Lunar thermal emission; 13360. SP305-5.

Moon; Astronomy; Continental drift; Geophysics; Gravity; Laser; Lunar; 11568. SP305-2.

Moon; Earth rotation; Geodesy; Geodynamics; Geophysics; Laser distance measurements; 16448. SP305-8.

Moon; Equivalence principle; General relativity; Gravitation; Lunar orbit; 15946. SP305-8.

Moon; Petrography; Pyroxene; Rocks; Apollo 12; Crystallization; Mineralogy; 14641. SP305-6.

Moon; Petrography; Rocks; Apollo 11; Electron probe analysis; Mineralogy; 11958. SP305-3.

Moon; Plate tectonics; Crustal movements; Earth rotation; Geophysics; Lasers; Lunar cartography; Lunar gravity; 15437. SP305-7.

Moon; Polar motion; Selenodesy; Celestial mechanics; Crustal movements; Earth rotation; Geophysics; Laser; 13809. SP305-6.

Moon; Relativity; Gravity; Laser; Lunar motion; 12724. SP305-4.

Moon; Selenodesy; Astronomy; Cartography; Geophysics; Laser; Lunar distance; 14892. SP305-7.

Moon; Tectonics; Geodesy; Geodynamics; Lasers; Metrology; 15794. SP305-8.

Money viscometer; Oscillating-disk cure meter; Processability; Rubber testing; Standardization; Vulcanization; Cure meter; 14431. SP305-6.

Moring Line Data Line; Propagation characteristics; Transmission line; Characteristic impedance; Coupler; Current; Impedance, input impedance; NBSIR 73-341. SP305-6.

Mordant; Adhesive bonding; Chelation; Comonomers; Coupling agents; Dental materials; Hard tooth tissues; Metal ions; 15161. SP305-7.

Morpholine; Morpholinium ion; Thermodynamic quantities; Bases; Dissociation constant; Emf measurements; 9460. SP305.

Morpholine; Prefabricated steel conduit; Qualified Products List; Tieline; Condensate return; Epoxy; Fiberglass reinforced plastic; Filament-wound; Insulated; Molded; BSS66, pp. 88-91. SP305-7.

Morpholinium ion; Thermodynamic quantities; Bases; Dissociation constant; Emf measurements; Morpholine; 9460. SP305.

Morphological classification; Translation system; Linguistic work; Mechanical translation system; 9205. SP305.

Morphological research; Movement; Sources; Building moisture problems; Effects; Evaluation; SP361, Vol. 1, pp. 431-449. SP305-4.

Morphological research; Performance analysis; Reinforced concrete; Reinforcement; Concrete; Corrosion; Durability; Material properties; SP361, Vol. 1, pp. 725-732. SP305-4.

Morphological stability; Crystal growth; Crystallization; Growth techniques; 13442. SP305-5.

Morphological stability; Morphology; Water; Crystal growth; Cylinder; Ice; 11274. SP305-2.

Morphological stability; Nucleation; Phase changes; Transport processes; Crystal; Crystal growth; Crystallization; Growth mechanisms; 11918. SP305-3.

Morphological stability; Sodium chloride; Surface tension; Crystal growth; Ice; Interface kinetics; 13893. SP305-6.

Morphological stability; Solidification; Crystal growth; Grain boundary; 13661. SP305-5.

Morphological stability; Solute diffusion; Surface tension; Cylinder; Ice; Interface kinetics; J73A No. 1, 65-68 (1969). SP305-1.

Morphological stability; Surface tension; Water; Crystal growth; Cylinder; Ice; 11321. SP305-2.

Morphology; Non-linear; Stability; Surface tension; Cylinder; Ice; 12386. SP305-4.

Morphology; Nonlinear refractive index; Picosecond laser pulses; Avalanche ionization; Dielectric breakdown; Inclusions; Laser damage threshold; SP435, pp. 321-330 (Apr. 1976). SP305-8.

Morphology; Nonstoichiometry; Octacalcium phosphate; Solubility; Surface; Amorphous calcium phosphate; Bone mineral; Fluorapatite; Hydroxyapatite; 16307. SP305-8.

Morphology; Pattern recognition; Biological images; Image processing; 12284. SP305-3.

Morphology; Permeation; Permeation tubes; Polymer structure; Sulfur dioxide; Density; Fluorocarbon copolymer; 15509. SP305-7.

Morphology; Perturbations; Stability; Surface tension; Water; Cylinder; Heat flow; Ice; 10974. SP305-2.

Morphology; Solidification; Stability; Alloy; Grain boundary; 13659. SP305-5.

Morphology; Solidification; Stability; Grain boundary; 15844. SP305-8.

Morphology; Sphere; Stability; Crystal growth; Diffusion; Heat flow; Interface; Kinetics; 9439. SP305.

Morphology; Water; Crystal growth; Cylinder; Ice; Morphological stability; 11274. SP305-2.

Morse potential function; Numerical computation; Shock compression; Shock propagation; Shock wave; Crystal; Cubic lattice; Hooke's law forces; Lattice dynamics; 10104. SP305-1.

Morse potential functions; Eucken correction; Correlation; Dilute gases; Nitrogen; Oxygen; Transport coefficients; Lennard-Jones; Kihara; Exp. 6; TN350. SP305.

Mortar; Adhesives; Concrete masonry; Cost performance; Ground concrete block; SP361, Vol. 1, pp. 693-709. SP305-4.

Mortar; Slenderness effects; Standards; Structural stability; Walls; Brick; Cavity walls; Composite walls; Compressive strength; Concrete block; Flexural strength; Masonry; BSS34. SP305-3.

Mortar; Slenderness ratio; Standards; Stiffness; Structural stability; Walls; Brick; Buckling; Composite walls; Compressive strength; Concrete block; Constitutive relations; Flexural strength; Masonry; Masonry walls; BSS73. SP305-8.

Mortar evaluation; Mortar standard; Suction of masonry unit; Winter masonry; Fresh mortar; Interaction between masonry mortars and units; Masonry mortar; SP361, Vol. 1, pp. 687-692. SP305-4.

Mortar standard; Suction of masonry unit; Winter masonry; Fresh mortar; Interaction between masonry mortars and units; Masonry mortar; Mortar evaluation; SP361, Vol. 1, pp. 687-692. SP305-4.

Mortars; Polymer impregnated mortars; Slow crack growth; Acoustical emission; Fracture mechanics; 16360. SP305-8.

Mortars; Steam curing of portland cement mortars; Trace elements; Accelerated curing of cements; Autoclave curing of portland cement mortars; Chemical composition; Compressive strength of portland cement; Compressive strength of steam-cured cements; BSS8, Sec. 8. SP305-1.

Mortars (materials); Portland cement; Testing; Walls; Lime (dolomitic); Masonry; 15992. SP305-8.

- Mortars (materials); Walls; Brick; Dolomitic mineral; Masonry; 15582. SP305-7.
- MOS capacitor; *p-n* junction; Semiconductor defects; Silicon; Thermally stimulated capacitance; Thermally stimulated current; Gold-doped silicon; Measurement methods; 16363. SP305-8.
- MOS capacitor; *p-n* junctions; Semiconductors; Silicon; Thermally stimulated capacitance; Thermally stimulated current; Cryostat; Defects; Gold-doped silicon; Measurement methods; Microelectronics; SP400-26. SP305-8.
- MOS capacitors; *n-p-n* transistor fabrication; *p-n* junctions; Resistivity; Semiconductor electronics; Sheet resistors; Silicon; Test pattern; Test structures; Dopant density; Microelectronics; SP400-22. SP305-8.
- MOS capacitors; *p-n* junctions; Resistivity of silicon; Semiconductor devices; Semiconductor process control; Sheet resistors; Test patterns; Thermally stimulated currents; SP400-21. SP305-8.
- MOS devices; Oxide films; Photomasks; Photoresist; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; S-parameters; Spreading resistance; Test patterns; SP400-1. SP305-6.
- MOS devices; Oxide films; Photomasks; Photoresist; Platinum wire resistivity; Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; SP400-4. SP305-6.
- MOS devices; Oxide films; Photomasks; Photoresist; Resistivity; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; SP400-8. SP305-7.
- MOS devices; Oxide films; Photomask inspection; Resistivity; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; SP400-17. SP305-7.
- MOS devices; Oxide films; Resistivity; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; SP400-12. SP305-7.
- MOS devices; Process control; Reliability; Semiconductor devices; Surgical implants; Cardiac pacemaker; Data banks; Failure analysis; Failure modes; Hermeticity; Hybrid devices; Leak testing; Measurement technology; Microelectronics; SP400-28. SP305-8.
- Mosaic-parquet flooring; Slat flooring; Flooring; Hardwood flooring; PS27-70. SP305-2.
- MOS-CV techniques; PICTUREPHONE<sup>®</sup>; Radial resistivity inhomogeneities; Silicon resistivity; Spreading resistance techniques; Dark field coring; SP400-10, pp. 179-184. SP305-6.
- MOSFETS; Neutrons; Pu<sup>239</sup>-Be; Radiation simulation; RTG; Test; Evaluation; SP336, pp. 129-140. SP305-3.
- Mossbauer; Spectroscopy; Standard; Differential chemical shift; Quadrupole splitting; Random error; Systematic error; Sodium nitroprusside; Iron compounds; Optical Mossbauer spectrometer; Tandem Mossbauer spectrometer; Velocity calibration; M260-13. SP305.
- Mossbauer effect; Superconductivity; Titanium; Alloys; Cobalt; Ferromagnetism; Hyperfine fields; Iron; Moments; 9576. SP305-1.
- Mossbauer instrumentation; Mossbauer laboratories; Radiometric trace chromatography; Radioisotope dilution; Substoichiometry by controlled potential coulometry; Radiochemical separations; Theoretical detection limits for activation analysis; TN404. SP305.
- Mossbauer instrumentation; Mossbauer spectroscopy; NBS Linac; Nickel-61; PARLORS program for Mossbauer spectra; Photoneutron reaction; Solid state detectors; Standard reference materials; Tin standard for chemical shift; Computers; Cross sections; TN421. SP305.
- Mossbauer laboratories; Radiometric trace chromatography; Radioisotope dilution; Substoichiometry by controlled potential coulometry; Radiochemical separations; Theoretical detection limits for activation analysis; CLSQ program for multicomponent decay; TN404. SP305.
- Mossbauer spectroscopy; Chemical structure analysis; 9444. SP305.
- Mossbauer spectroscopy; NBS Linac; Nickel-61; PARLORS program for Mossbauer spectra; Photoneutron reaction; Solid state detectors; Standard reference materials; Tin standard for chemical shift; Computers; Cross sections; Detector limits for analysis; TN421. SP305.
- Mossbauer spectroscopy; Quadrupole splitting; Stannic oxide; High pressure; Line broadening; 9206. SP305.
- Mossbauer spectroscopy; Quadrupole splitting; Sodium nitroprusside; Standardization; Crystal structure; Differential chemical shift; 9238. SP305.
- Mossbauer spectroscopy; Tin standard for chemical shift; PARLORS program for Mossbauer spectra; Mossbauer instrumentation; Mossbauer laboratories; Radiometric trace chromatography; Radioisotope dilution; Substoichiometry by controlled potential coulometry; TN404. SP305.
- Most-probable energy loss; Target thickness; Energy loss; Ionization loss; 15360. SP305-7.
- Mother-liquor inclusions; Occlusions in crystals; Sodium chlorate; Solution-grown crystals; Ammonium dihydrogen phosphate; Crystal defects; Crystal growth; Crystal-growth forms; 10856. SP305-1.
- Motion; Scattering; Average; Cross-section; Distribution; Electrons; Energy; Isotropic; 10379. SP305-1.
- Motion of vortex ring; Vortex; Vortex motion; Curved vortex; Elliptic vortex ring; Localized-induction; 10215. SP305-1.
- Motion picture cameras; Photographic equipment; Static load; Test equipment; Compression tests; Dynamic loads; High speed photography; Indicating instruments; Indicator characteristics; Loading rate; Loads (forces); 12080. SP305-3.
- Motion picture standards; Photographic standards; 1105. SP305-2.
- Motion picture surveillance; Robbery; Sequence camera; Shoplifting; Surveillance; Surveillance cameras; Cameras; Demand cameras; Employee theft; Fixed surveillance; 1492. SP305-7.
- Motion transducers; Transducer compendium; Velocity transducers; Vibration transducers; Acceleration transducers; Displacement transducers; Jerk transducers; Measurement motion; 12778. SP305-4.
- Motivation for standardization; Standards; Automation; Computer aided manufacturing systems; Computer integrated manufacturing systems; Interfaces; 16350. SP305-8.
- Motor; Pump; Rectifier; Solenoid; Superconductivity; Switch; Temperature; Thermometer; Bearings; Bolometer; Electric microscope; Helium; Hydrogen; Level gauging; Liquid level Magnet; 9715. SP305-1.
- Motor; Stepping; Digital; Drive; Electronic; Generator; 1635. SP305-8.
- Motor calculus; Plasticity; Burgers vector; Compatibility; Cromium; Contortion; Cosserat; Couple-stress; Defect; Deformation; Disclination; Dislocation; Dualism; Elasticity; Incompatibility; SP317, pp. 651-673. SP305-3.
- Motor efficiency; Net positive suction head; Pump efficiency; Pump performance; Cavitation; Cryogenic motors; Induction motors; Liquid helium pumps; NBSIR 75-816. SP305-7.
- Motor vehicle brake fluid; Passenger car braking system; Brake fluids; Brake fluid standards; 12038. SP305-3.



Motor vehicle restraint systems; Highway safety; Human factors research; 10857. **SP305-1.**

Motor vehicle safety standard 302; Urethane; AM General Bus; Arson; Critical radiant flux; Fire retardant; Flammability; Flooring radiant panel test; Metro; *NBSIR 75-718*. **SP305-7.**

Motor vehicles; Photometric testing; Safety standards; Federal Motor Vehicles Safety Standards; Interlaboratory test evaluation; *TN821*. **SP305-6.**

Motor vehicles using dual-fuel systems; Optical radiation news; Standard gases; Cryogenics; Energy conservation; Energy generation; Household appliance energy labels; *DIM/NBS 57*, No. 8, 177-200 (1973). **SP305-5.**

MotORIZED criminal; Ozone puzzle; Portable transceiver batteries; RF power meter; Utilities system; Batteries; Dental materials; Industry; Integrated utilities system; Mass spectrometry; *DIM/NBS 60*, No. 3, 1-24 (1976). **SP305-8.**

Ion insulator; NiO; Optical density-of-states; Photoconductivity; Photoemission; Polaron; Amorphous semiconductor; Anderson transition; Augmented plane wave method (APW); Chalcogenide glasses; Electronic density of states; *SP323*, pp. 493-503. **SP305-4.**

Ion scattering; Secondary electron; Thin foils; Electron beam; Energy current; Moller scattering; 10494. **SP305-1.**

Ion state; Paramagnetic metal; *t*-matrix; Antiferromagnetic insulator; First order phase transition; Half-filled narrow energy band; *SP323*, pp. 527-541. **SP305-4.**

Iouse; Nuclear magnetic resonance; Relaxation time; Tumor; In vivo; 13194. **SP305-5.**

Ioutier cycle; Stress concentrations; Dislocation pileups; *SP317*, pp. 147-150. **SP305-3.**

Iovement; Sources; Building moisture problems; Effects; Evaluation; Morphological research; *SP361*, Vol. 1, pp. 431-449. **SP305-4.**

oving atmospheres; Line formation; Line-profile computation; *SP332*, pp. 120-133. **SP305-2.**

oving atmospheres; Radiative transfer; Spectral line formation; Spherical geometry; Stellar atmospheres; *SP332*, pp. 87-118. **SP305-2.**

oving boundary; Stefan problem; Surface diffusion; Surface diffusion constant; Whisker; Whisker evaporation; Mean adatom stay time; 11129. **SP305-2.**

oving boundary problems; Numerical methods; Partial differential equations; Semiconductor technology; Diffusion equations; Finite-difference techniques; Impurity redistribution; 15175. **SP305-7.**

oxon-Rae; Review; Total absorption; Activation; Capture techniques; High resolution methods; *SP425*, pp. 139-148. **SP305-7.**

$O_2^+$ ; Paramagnetic relaxation; Temperature dependence; *QO*; 10628. **SP305-1.**

-shell; Photoionization; Xenon; 10477. **SP305-1.**

-spin; Neutrino;  $SU(2)_L \times SU(2)_R$ ; Trident production; Weak interaction; Lepton; 13127. **SP305-5.**

-spin; Scattering amplitudes; Weinberg; Gauge theories; Lep-  
ton; Muon; 14942. **SP305-7.**

S2 virus; Porous glass; Virus; Chromatography; Glass; Kilham rat virus; 10358. **SP305-1.**

-type stars; Molecular emission, Orion Nebulae; Silicon monoxide; Rotational transitions; Maser; 15210. **SP305-7.**

-u sulphur; Reflectance; Reflectometer; Sodium chloride; Barium sulphate; Bidirectional reflectance; Bidirectional reflectometer; Black coating; Gonioreflectometer; Magnesium oxide; *J. Res. 80A* No. 2, 189-205 (1976). **SP305-8.**

-ueller bridge; Thermometry; Automatic calorimetry; Calorimetry; Heat capacity; 11310. **SP305-2.**

-uffin-tin" potential; Orbital density of states; Soft x-ray emission; Augmented plane wave method (APW); Electronic density of states; Electronic specific heat; Gold aluminide ( $AuAl_3$ ); *SP323*, pp. 297-301. **SP305-4.**

"Muffin-tin" potential; Palladium (Pd); Photoemission; Plasmon; Secondary emission; Silver (Ag); Copper; Dielectric constant; Direct interband transitions; Electronic density of states; Interband transition; *SP323*, pp. 181-189. **SP305-4.**

"Muffin-tin" potential; Short-range-order parameters; Spectral density of states; *t*-matrices; Alloys; Brass; Delta-function potential; Disordered systems; Green's functions; Korringa-Kohn Rostoker (KKR); *SP323*, pp. 509-514. **SP305-4.**

"Muffin-tin" potential; Small particles; Two dimensional classical membrane; Diffusion equation; Electronic density of states; *SP323*, pp. 473-475. **SP305-4.**

Mullen test; Burst of leather; Extension; Grain-crack; 9466. **SP305.**

Mulliken bands of  $C_2$ ; Swan bands of  $C_2$ ; Ultraviolet spectrum; Vacuum ultraviolet photolysis; Acetylene;  $C_2$ ;  $HC_2$ ; Infrared spectrum; 10246. **SP305-1.**

Mullions; Parapets; Roof projections; Static pressures; Wind effects; Wind tunnel modeling; Architectural features; Buildings; *BSS30*, pp. 73-86. **SP305-3.**

Multiaxial; Plasticity; Thermodynamics; Dislocation; 14979. **SP305-7.**

Multiaxial stresses; Notch geometry; 310 stainless steel; Stress concentrations; Tensile deformation; Workhardening; Fracture; Initial cracking; 9735. **SP305-1.**

Multiaxial stresses; Plasticity; Proportional limit; Flow surface; 15802. **SP305-8.**

Multi-body states; Coherent production; Diffractive production; Glauber model; Hadron scattering; High energy scattering; 13164. **SP305-5.**

Multi-channel; Neon; Photoionization; Standing waves; 2p shell; Close-coupling; Core relaxation; 9781. **SP305-1.**

Multi-channel; Polarization; Resonance; Threshold; Close-coupling; Electron excitation; 10737. **SP305-1.**

Multichannel analyzer; Proportional counters; Quantitative analysis; Solid state counters; Tests; X-ray spectra; X-ray spectrometers; Electron diffraction; Electron probes; Evaluation; Gas flow; Lithium; Microanalysis; 12251. **SP305-3.**

Multichannel analyzers; Nuclear instruments; Teletypewriter; Digital instruments; Digital multichannel pulse-height analyzer; 10785. **SP305-1.**

Multichannel multiscaler analyzer; Poisson distribution; Radioactive decay; 10954. **SP305-2.**

Multichannel scaler; Nuclear instrumentation; Overflow counter; 12173. **SP305-3.**

Multichannel spectrometer; Non-metals; Overexcitation; Phosphorus; Spectrometry; Sulfur; Triple pass on-axis; Flame; Hydrogen; Long-path burner; 12658. **SP305-4.**

Multicolor; Organic coatings; Paint; Pigments; Polymers; Properties; Resins; Selection; Substrates; Surface preparation; Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant; *BSS7*. **SP305-1.**

Multicommodity network; Network; Network display; Plotting algorithm; Plotting program; Communication network; *TN829*. **SP305-6.**

Multicomponent; P c 1 micropulsations; Plasma; Polarization; Propagation; Alfvén; Dispersion; Hydromagnetic; Magnetosphere; *TN342*. **SP305.**

Multicomponent; Steady-state; Composition; Growth rate; Kinetics; 9472. **SP305.**

Multicomponent adsorption equilibria; Spreading pressure; Adsorption; Adsorption azotropes; Ideal adsorbed solution; 9842. **SP305-1.**

Multicomponent alloys; Random alloy model; Vacancies; Alloys; Atom jump frequencies; Binary alloys; Correlation factor; Diffusion; 12411. **SP305-4.**

Multicomponent alloys; Random alloys; Thermodynamic equations; Alloys; Cross terms; Diffusion; 11595. **SP305-2.**

Multicomponent chains; Polymer crystallization; Crystallization; Kinetics; 10340. **SP305-1.**

- Multicomponent diffusion; Coefficients; Diaphragm cell; Matrix logarithm; *11284*. SP305-2.
- Multicomponent systems; *n*-paraffins; Pair distributions; Phase diagrams; Crystal growth; Kinetics; *J71A4-457*, 245-259 (1967). SP305.
- Multicomponent systems; Surface free-energy; Chain-folded crystals; Crystal growth; Kinetics; *J71A4-458*, 261-275 (1967). SP305.
- Multicomponent systems; Survey; Annotated bibliography; Binary systems; Cryogenic fluid mixtures; Liquid-vapour equilibria; *13753*. SP305-5.
- Multiconfiguration; Atoms; Correlation; Dipole polarizabilities; Excited states; Ground state; *14137*. SP305-6.
- Multiconfiguration; NO<sup>+</sup>; Dipole moment function; Infrared intensities; *13907*. SP305-6.
- Multiconfiguration; Static dipole polarizability; Variation method; Carbon (<sup>1</sup>D); Carbon (<sup>1</sup>P); Carbon (<sup>3</sup>S); *12937*. SP305-4.
- Multiconfiguration SCF; CO; Dipole moment; Dipole moment functions; Infrared intensity; *14326*. SP305-6.
- Multiconfiguration SCF; N<sub>2</sub>; NO<sup>+</sup>; Quadrupole moment; CO; Hyperpolarizability; *14317*. SP305-6.
- Multiconfiguration self-consistent field; O<sub>2</sub><sup>-</sup>; Adiabatic correlation; Asymptotic states; Configuration interaction; Correlation energy; Excited states; *13206*. SP305-5.
- Multidimensional; Polynomials; Functions; Variables; Hermite-Fejer; Bernstein; Chebyshev; Approximations; Convergence; *J70B3-182*, 211-218 (1966). SP305.
- Multidimensional; Radioactivity; Anti-coincidence; Anti-Compton; Gamma rays; Low level radioactivity; *12886*. SP305-4.
- Multidimensional decisions; Reliability; Subjective evaluation; Maintainability; Measures of effectiveness; *SP361, Vol. 1*, pp. 63-71. SP305-4.
- Multidimensional distributions; Random number generators; Congruential generators; *J73B No. 1*, 41-44 (1969). SP305-1.
- Multidimensional scaling; Performance criteria; Preference scaling; Scaling; User evaluations; Visual environment; Color schemes; Field studies; Glare; Illuminance; Matrix analysis; *SP361, Vol. 1*, pp. 121-129. SP305-4.
- Multi-element; Spark source mass spectrometry; Stable isotope dilution; Trace determinations; Cation-exchange; Electrodeposition; High-purity metal analysis; *11242*. SP305-2.
- Multi-element analysis; Trace element analysis; X-ray fluorescence; Accuracy; Activation analysis; Airborne particulates; Air filter analysis; Atomic absorption; Emission spectroscopy; Environmental pollutants; Intercomparisons; *SP422*, pp. 173-188 (Aug. 1976). SP305-8.
- Multielement determination; Neutron activation; Radiochemical separation; Trace elements; Biological material; Biological standards; Data evaluation; Distillation; Food composition; Gamma spectrometry; Inorganic separators; Isotopic exchange; *SP422*, pp. 1173-1180 (Aug. 1976). SP305-8.
- Multi-element flame spectrometer; Spectrophotometric standards; Steels and metallo-organics; Thermal analysis DTA standards; Trace elements-glass standards; Bilirubin solvent extraction with  $\beta$ -isopropyltolpnone; Clinical; Filter; Fluorimetric standards; Inert gas fusion; Lead-base alloys; *TN544*. SP305-2.
- Multielemental analysis; Activation analysis; Charged particle; Cyclotron; Method evaluation; *SP422*, pp. 1215-1232 (Aug. 1976). SP305-8.
- Multifamily; Noise control; Structure-borne noise control; Airborne; *10457*. SP305-1.
- Multifamily housing; Operation BREAKTHROUGH; Single family attached housing; Steel tube column; Fire endurance; Fire test; Housing system; *13406*. SP305-5.
- Multigroup; Reactor; Resonance; Slowing-down; Stochastic; Transport; Benchmark; Cross section; Eigenvalue; Monte Carlo; *SP425*, pp. 451-454. SP305-7.
- Multigroup capture cross section; Na<sup>23</sup>; Self shielding factor; 24 keV; 160 keV; Fe; *SP425*, pp. 961-963. SP305-7.
- Multigroup cross sections; Neutron reactions, heavy actinides; Reactor production experiments; Heavy actinide burnup; *SP425*, pp. 224-228. SP305-7.
- Multi-group data; Survey; Computer codes; *SP425*, pp. 848-854. SP305-7.
- Multilateration; Position-location; Ranges; Simulation; Algorithms; Least-squares; *14387*. SP305-6.
- Multilayer coating; Absorbance; Antireflectance coating; Bandwidth; Coating design; *SP462*, pp. 221-229 (Dec. 1976). SP305-8.
- Multilayer cylinder; Reference values; Scattering; Cylinder scattering; Electromagnetic scattering; Lossy dielectric; *15648*. SP305-7.
- Multilayer dielectric coatings; Polarizers; Coating damage; Laser damage; Mirrors; *SP435*, pp. 298-304 (Apr. 1976). SP305-8.
- Multilayer dielectric mirror; Optical absorbance; Reflectance; Scattering; Temperature dependence; Wavelength dependence; *SP435*, pp. 230-235 (Apr. 1976). SP305-8.
- Multilayer dielectric mirrors; Pulsed CO<sub>2</sub> laser damage; Thin film coated metal; Uncoated metal mirrors; Damage mechanisms; Inclusions in dielectrics; *SP372*, pp. 183-193. SP305-4.
- Multilayer insulated; Dewar; Gas shielded; Helium; Liquid; Magnetometer; *13465*. SP305-5.
- Multilayer insulation; Thermal insulation; Transfer standards; Calorimeters; Fiber glass; Foam insulation; Insulation transfer-standard; *13416*. SP305-5.
- Multilayer reflectors; Single layer coatings; Spark detection; Thin films immersed in liquids; High power ruby laser damage; *SP462*, pp. 315-330 (Dec. 1976). SP305-8.
- Multilayer spreading resistance model; Resistivity; Semiconductor dopant concentration; Spreading resistance; Computer modeling; Correction factors; Dopant profiles; *SP400-10*, pp. 75-94. SP305-6.
- Multilayer structures; Response factors; Sphere; Transient heat conduction; Cylinder; *11033*. SP305-2.
- Multilayered structure; Piezoresistivity; Resistivity; Spreading resistance; Stress; Zero bias resistance; Correction factor; Crystallographic orientations; Effective contact radius; Interfaces; Metal-semiconductor contacts; *SP400-10*, pp. 17-26. SP305-6.
- Multilevel fits; Polarized neutrons; Polarized target; <sup>235</sup>U(n,f); Fission channels; J; *SP425*, pp. 576-579. SP305-7.
- Multilevel R-matrix resonance analysis; Fe(n), E<sub>a</sub>  $\approx$  0.5-30 MeV; Measured  $\sigma_{\text{res}}(E)$ ; *SP425*, pp. 754-757. SP305-7.
- Multilinear functional; Isometry; Elementary divisors; *12079*. SP305-3.
- Multi-loop servo; Oscillator correction; Time synchronization; VLF propagation; Flicker noise; Meteor burst; *9710*. SP305-1.
- Multimachine scheduling; Scheduling; Scheduling algorithms; Single-machine scheduling; Job scheduling; Minimizing maximum lateness; Minimizing total delay; *14313*. SP305-6.
- Multimode; Nonlinear parameters; Rms error; Analysis; Determinants; Experimental data; *9867*. SP305-1.
- Multiobjectives; Multi-purpose projects; Regional development Water policy; Water resources; Cost allocation; Cost sharing Environmental quality; Efficiency; Equity; *13277*. SP305-5.
- Multiparameter; On-line; CAMAC; Disc; Minicomputer; Modular; *SP425*, pp. 97-98. SP305-7.
- Multipath; Path delay; Phase vs. time;  $\sigma$  vs.  $\tau$ , 19 kHz pile Frequency modulation; Modulation index; *16492*. SP305-8.
- Multi-path interference; Two-antenna method; Antenna range design; Field strength; Gain corrections; High accuracy gain measurements; Horn antennas; *9590*. SP305-1.

Multiphase materials; Physical properties; Polycrystals; Preparation; Research; Chemical properties; Composition; Gases; Glasses; Liquids; *SP333. SP305-2.*

Multiphonon absorption; Crystal absorption theory; Frequency moments; Infrared absorption; Infrared susceptibility; Infrared window materials; *SP387, pp. 202-207. SP305-5.*

Multiphonon absorption; Optical absorption; Water repellent coatings; Chemical lasers; Infrared materials; Laser windows; *SP462, pp. 45-49 (Dec. 1976). SP305-8.*

Multiphonon absorption; Surface absorption; Bulk absorption; CO laser; HF laser; Infrared laser window materials; *SP462, pp. 50-57 (Dec. 1976). SP305-8.*

Multiphoton; Photoionization; Review; Scattering; Spin-polarization; Electron; Experiment; LEED; *15900. SP305-8.*

Multiphoton; Sodium; Atom; Dye laser; Electric quadrupole; Fine structure; Ionization; *15149. SP305-7.*

Multiphoton absorption; Alkali halides; Collision chains; Halogen emission; Intrinsic damage; *SP435, pp. 366-368 (Apr. 1976). SP305-8.*

Multiphoton absorption; RF sputtering; Damage threshold; Dielectric films; Heat conduction; Laser damage; *SP435, pp. 272-283 (Apr. 1976). SP305-8.*

Multiphoton ionization; Benzene; Electronic structure; *15941. SP305-8.*

Multiphoton ionization; Sodium; Spontaneous Raman scattering in free atoms; Atomic beams; *16572. SP305-8.*

Multiphoton ionization; Trans-1,3-butadiene; Electronic structure; *15981. SP305-8.*

Multiphoton processes; Nonlinear absorption; Nonlinear optical properties; Semiconductor optical properties; Two-photon absorption coefficients; *SP435, pp. 369-388 (Apr. 1976). SP305-8.*

Multiphoton processes; Numerical calculations; Relaxation phenomena; Vibrational populations; Floquet theory; Laser-induced reactions; *16242. SP305-8.*

Multiphoton processes; Photoionization; Cesium; *16298. SP305-8.*

Multiphoton processes; Self-focusing; Thin films; Avalanche ionization; IR windows and mirrors; Laser damage; Laser materials; *SP435. SP305-8.*

Multiphoton processes; UV; Electroabsorption; IR optics; Laser damage; *SP435, pp. 389-394 (Apr. 1976). SP305-8.*

Multipole antenna; Absorption measurement; Antennas-multiple; Magnetically conjugate regions; *10245. SP305-1.*

Multipole beam damage apparatus; Potassium chloride; Sputtering of germanium; Characterization of laser damage; E-beam deposition of germanium; Germanium coating; Laser damage mechanism; Laser induced damage; *SP414, pp. 76-84. SP305-6.*

Multipole diffraction; Weissenberg method; Crystal structure; Diffraction; *10046. SP305-1.*

Multipole dwellings; Apartments; Building codes; Fire; Fire walls; Garden apartments; Gypsum board; Insurance; Liability; *SP411, pp. 178-194. SP305-6.*

Multipole films; Optical constants; Reflection coefficients; Thin films; Computer programs; Ellipsometry; Fortran program; *N479. SP305-1.*

Multipole frequency timing; Omega time code; Precise time receiver; Precise timing; Time code receivers; VLF timing; *2531. SP305-4.*

Multipole integral; Numerical analysis; Numerical integration; Quadrature; Integral; Integration; Modified Monte Carlo; Monte Carlo; *10751. SP305-1.*

Multipole integrals; Number theory; Numerical analysis; Periodic functions; Quadrature; Approximation; Banach-Steinhaus theorem; Fourier Series; *10967. SP305-2.*

Multipole integrals; Numerical integration; Quadrature; Reflection groups; Symmetric groups; Symmetries; Hilbert basis; Integration; Invariants; *13857. SP305-6.*

Multiple integrals; Numerical integration; Numerical methods; Quadrature; Random; Degree of precision; Hadamard matrices; Integration; Monte Carlo; *11583. SP305-2.*

Multiple integrals; Transportation problem; Average distance; Distance; *16088. SP305-8.*

Multiple integration; Multiple quadrature; Numerical analysis; Numerical integration; Optimal formulas; Quadrature; Best integration formulas; Diophantine approximation; Gaussian quadrature; Integration; Monte Carlo; *13986. SP305-6.*

Multiple integration; Number theory; Numerical analysis; Numerical integration; Periodic (functions); Quadrature; Continued fraction; Diophantine approximation; Integration; *11584. SP305-2.*

Multiple integration; Numerical analysis; Numerical integration; Quadrature; Analysis; Integration; Mathematics; Monte Carlo; *9321. SP305.*

Multiple integration; Numerical analysis; Numerical integration; Quadrature; Analysis; Integration; Mathematics; Monte Carlo; *10152. SP305-1.*

Multiple neutron backscattering; Neutron experimental equipment; Neutron-neutron scattering; Re-entrant holes; Straight ducts; Collimators; *12812. SP305-4.*

Multiple pipe system; Underground pipe; Chilled water pipe; Earth temperature; Heat transfer; *B5566, pp. 18-41. SP305-7.*

Multiple precision package; Riemann zeta function; Bernoulli numbers; Euler-Maclaurin method; Euler transform; Euler's constant; *J. 76B Nos. 3 and 4, 161-178 (1972). SP305-4.*

Multiple prisms; Identification of compounds by refractive index; Micro determination of refractive index; Microscope for accurate determination of refractive index; *15098. SP305-7.*

Multiple probe devices; Reflectometers; Rotating probe devices; Slotted lines; Survey of automatic techniques; Swept frequency measurements; Wheatstone Bridge; Automatic network analyzers; Computer-controlled measurement; Magic tee; Microwave measurement methods; *Monogr. 151. SP305-8.*

Multiple quadrature; Numerical analysis; Numerical integration; Optimal formulas; Quadrature; Best integration formulas; Diophantine approximation; Gaussian quadrature; Integration; Monte Carlo; Multiple integration; *13986. SP305-6.*

Multiple reflection; Sapphire surfaces; Silicon films; Specular reflection; Differential reflection; Epitaxial semiconductor devices; Kramers-Kronig relation; *NBS-GCR-76-61. SP305-8.*

Multiple reflections; Outliers; Perpendicular polarization; Quasi-optics; Reflection coefficient; Transverse displacement; Vector solution; Approximation errors; Complex dielectric constant; Convergence confidence interval; Contour diagrams; *TN369. SP305-1.*

Multiple reflections; Photometric linearity; Polarization; Sample characteristics; Straylight; Wavelength accuracy; Bandwidth; Calibration; Errors in spectrophotometry; Interferences; *J. Res. 80A No. 4, 609-624 (1976). SP305-8.*

Multiple reflections; Quarter-wave plate; Ellipsometer; *9522. SP305.*

Multiple reflections; Speed of light; Waveguide junction; Interferometer; Microwave; *10201. SP305-1.*

Multiple regression analysis; Nuclear magnetic resonance; Polymer; Proton magnetic resonance; Spectroscopy; Aromatic amine; *12431. SP305-4.*

Multiple scattering; Charge deposition; Electrons; Energy deposition; Flux; Monte Carlo; *11491. SP305-2.*

Multiple scattering; Industrial gauging; Isotopes; Monte Carlo calculations; *SP425, pp. 500-503. SP305-7.*

Multiple scattering; Neutrino-nucleus interactions; Shadowing effects; Diffractive production; Diffractive scattering; Glauber model; Hadronic components of photons; High energy scattering; *Monogr. 139. SP305-7.*

- Multiple scattering; Neutron; Time-of-flight; Associated-particle; Crosssection; Monte Carlo; *TN499*. **SP305-1.**
- Multiple scattering; Secondary processes; Specimen preparation; Cross-sections; Elastic scattering; Electron detectors; Electron energy analyzers; Electron guns; Electron scattering; Electron-solid interactions; Experimental techniques; Inelastic scattering; *11089*. **SP305-2.**
- Multiple scattering; Statistical physics; Transmission coefficient; Defects in harmonic crystal; Functional equation; Many-body problem; *12375*. **SP305-3.**
- Multiple scattering; Statistical physics; Thermal conductivity; Transport properties; Disordered one-dimensional crystal; *12376*. **SP305-3.**
- Multiple scattering; Transport calculations; Electrons; Energy deposition, microdosimetry; Monte Carlo; *11719*. **SP305-2.**
- Multiple scattering; Wave propagation in stochastic media; Crystal dynamics; Defects; Disordered crystals; *11439*. **SP305-2.**
- Multiple scattering; 0.1 to 3.0 MeV; Carbon; Copper; Experimental cross sections; Gold; Inelastic electron scattering; *12113*. **SP305-3.**
- Multiple scattering system; Physical expansion; Single scatter propagator; Binary collision expansion; Generalized collision integrals; *11502*. **SP305-2.**
- Multiple scattering x-ray generation; Particle analysis; Quantitative x-ray microanalysis; Thin films; X-ray emission; Electron trajectories; Magnetic effects; Monte Carlo calculations; *SP460*, pp. 105-128 (Dec. 1976). **SP305-8.**
- Multiple site model; Potential barrier to rotation; Relaxation times; Dielectric relaxation; Long chain molecule; Molecular crystals; *9787*. **SP305-1.**
- Multiple transitivity; Permutation group; Stirling numbers; Bell numbers; Branching theorem; Clebsch-Gordon series; Irreducible character; Matrix functions; *J. Res. 80B* No. 2, 265-268 (1976). **SP305-8.**
- Multiple vacancies; Cl K $\beta$ , CH<sub>3</sub>Cl; Double electron process; *L<sub>23</sub>* of argon, Cl and K in KCl; Molecular x-ray emission; *12653*. **SP305-4.**
- Multiple VLF transmissions; Portable clock; Standard time broadcasts; VLF propagation; Worldwide clock synchronization; *9711*. **SP305-1.**
- Multiple-access systems; On-line systems; Output modes; Photocomposition and typesetting; Storage hierarchies; Time sharing; Computer-assisted-instruction; Information display; Information recording; Machine-aided design; Memory allocation; *Monogr. 113, Volume 2*. **SP305-2.**
- Multiple-beam; Two-beam; Coherence; Interferometers; Lasers; Light sources; *11224*. **SP305-2.**
- Multiple-film; Radiographic inspection; Thermal neutrons; Three-dimensional; Complex object; Laminagraphy; *16371*. **SP305-8.**
- Multiple-precision computing; Multiple-precision programming; PRECISE; Triple-precision; User's manual; Double precision; Elementary functions; Equation solver; Linear equation solver; Magnetic tape utility program; *TN446*. **SP305-1.**
- Multiple-precision programming; PRECISE; Triple-precision; User's manual; Double precision; Elementary functions; Equation solver; Linear equation solver; Magnetic tape utility program; Multiple-precision computing; *TN446*. **SP305-1.**
- Multiple-scattering series; Rigid-band approximation; Scattering phase-shifts; *t*-matrices; Delta-function potential; Excluded terms; Green's functions; *SP323*, pp. 515-518. **SP305-4.**
- Multiple strength; Self-consistent field; Term values; Wavefunctions; *J.71A2-447, 157-162* (1967). **SP305.**
- Multiple strengths; Superposition of configurations; Wavefunctions; *10447*. **SP305-1.**
- Multiplet table; Silicon; Spectrum, Si *t*; Wavelengths, Si *t*; Atomic energy levels; Atomic spectra Si *t*; First spectrum; *NSRDS-NBS3, Section 2*. **SP305.**
- Multiplet table; Spectra, atomic; Atomic spectra, multiplet table; Finding list, atomic spectra; *NSRDS-NBS40*. **SP305-4.**
- Multiplet table, O *t*; Oxygen, first spectrum; Spectrum O *t*; Wavelengths, O *t*; Atomic energy levels, O *t*; Atomic spectra, O *t*; *NSRDS-NBS3, Section 7*. **SP305-8.**
- Multiplet tables; Rare-earth spectra; Spectra, far ultraviolet; Transition probabilities; Atomic spectra; *9210*. **SP305.**
- Multiplet tables, carbon spectra; Spectra, carbon; Wavelengths, carbon spectra; Atomic energy levels, carbon spectra; Atomic spectra of carbon; Carbon spectra; *NSRDS-NBS3, Section 3*. **SP305-3.**
- Multiplet tables, H, D, T; Spectra H<sub>i</sub>, D, T; Wavelengths, hydrogen spectra H<sub>i</sub>, D, T; Atomic energy levels, H<sub>i</sub>, D, T; Hydrogen spectra, H<sub>i</sub>, D, T; *NSRDS-NBS3, Section 6*. **SP305-4.**
- Multiplet tables, N *i*, N *ii*, N *iii*; Nitrogen spectra, N *i*, N *ii*, N *iii*; Spectra, N *i*, N *ii*, N *iii*; *NSRDS-NBS3, Section 5*. **SP305-7.**
- Multiplet tables, Niv-Nvii; Spectra, Niv-Nvii; Wavelengths, nitrogen spectra Niv-Nvii; Atomic energy levels, Niv-Nvii; Nitrogen spectra, Niv-Nvii; *NSRDS-NBS3, Section 4*. **SP305-3.**
- Multiplex; Spectroscopy; Dual spectra; Mössbauer; *10423*. **SP305-1.**
- Multiplex register unit; Nuclear physics experiments; Building blocks; Computer control; Digital computer; Linac; *NBS 10626*. **SP305-1.**
- Multiplication; Plasticity; Volterra; Crystal; Defect; Dislocation; Dislocation; Elasticity; Jog; Kink; *14745*. **SP305-7.**
- Multiplicative functions; Cyclotomic fields; Diophantine equations; *11412*. **SP305-2.**
- Multiplier; Word; Cancellation; Commutator subgroup; Modular group; *J.72B No. 4, 253-261* (1968). **SP305-1.**
- Multiplier chain; Precision oscillator; Rf spectrum; Spectra density of phase fluctuations; Spectral purity; Frequency multiplication; Linewidth; *15675*. **SP305-7.**
- Multiply charged ions; Relative cross sections; Absolute cross sections; Critical review; Electron impact; *9843*. **SP305-1.**
- Multipole decomposition; Zero range approximation; Confinement; Electron scattering; Helium-3; Monopole state *15608*. **SP305-7.**
- Multipoles; Recoupling; Electric transitions; Electromagnetic operators; Electron scattering; Magnetic transitions; *TN713*. **SP305-4.**
- Multiports; Reduced multiports; Scattering matrix analysis; Cascaded multiports; Equivalent generator; Generalized reflectometers; *11071*. **SP305-2.**
- Multiprocessing; Networks; On-line systems; Programming; Simulation; Storage; Data recording; Debugging; Holography; Information control; Input-output; Integrated circuits; Laser Memory systems; *Monogr. 113, Volume 3*. **SP305-2.**
- Multi-program monitor; Computer; Digital communication system; Laboratory automation; *14295*. **SP305-6.**
- Multi-program monitor; Computer; Digital communication system; Laboratory automation; *14296*. **SP305-6.**
- Multiprogramming; Operating system; Real-time; Data acquisition; File system; Laboratory automation; *NBSIR 75-71*. **SP305-7.**
- Multi-purpose projects; Regional development; Water pollution; Water resources; Cost allocation; Cost sharing; Environmental quality; Efficiency; Equity; Multiobjectives; *1327*. **SP305-5.**
- Multiquantum; Born; CO; Collisions; Exchange; *13021*. **SP305-4.**
- Multiserver queuing system; Resource locations; Resource utilization; Response system; Simulation; Manning level Modeling; *12949*. **SP305-4.**
- Multistage transformers; Operational amplifiers; Resistor bridge; Resistance thermometry; Temperature measurement.



- Automatic phase balance; Bridge; *J.74C Nos. 1 and 2, 14-17 (1970)*. SP305-2.
- Multistep redox reactions; Semiconductor surface states; Chemisorption; Electrochemistry; Electron transfer theory; *SP455*, pp. 1-19 (Nov. 1976). SP305-8.
- Multistory; Progressive collapse; Risk; Stability; Standards; Strength; United States; Abnormal loading; Building; Codes; Design criteria; *13475*. SP305-5.
- Multistory buildings; Progressive collapse of buildings; Residential buildings; Vehicular impact; Collisions of vehicles with buildings; *13781*. SP305-5.
- Multi-task; Performance testing; Process control; Real-time; RTOS; Automation; Calibration; Fuel control; Jet engine; Minicomputer; *15550*. SP305-7.
- Multivariate analysis; Optimization techniques; Pattern recognition; Signal processing; Spectral resolution; Statistics; Analytical chemistry; Curve fitting; Data reduction; Feature selection; *15964*. SP305-8.
- Multivariate analysis; Order statistics; Princeton University; Rietz, H. L.; Shewhart, W. A.; Statistical tolerance limits; Wilks, S. S.; Wishart, John; Annals of Mathematical Statistics; Army Experiment Design Conferences; *15513*. SP305-7.
- Multivariate analysis; Order statistics; Social sciences, services to; Statistical education in the United States; Statistical tolerance limits; U.S. Army programs in statistics; U.S. Government, services to; Wilks award; Wilks, S. S.; *16114*. SP305-8.
- Multiwaveguide; Shear wave analyzer; Shear wave orientation; Shear wave transducer; *12551*. SP305-4.
- Multiwire proportional counter; Radioactivity  $^{86}\text{Kr}$  [from (n,  $\gamma$ )]; Deduced  $Q_{\text{EC}}$ , log  $f$ ,  $J$ ; enriched  $^{86}\text{Kr}$  target; Isotope separated sources; Measured L/K EC ratio; *15197*. SP305-7.
- MUMPS; MUMPS Development Committee; MUMPS Language Standard; Data handling language; Interactive computing; Interpretive computer programming language and operating system; Medical automation; Minicomputer-based systems; *H118*. SP305-7.
- MUMPS; Protein adsorption; Thermometry; Blood banking; Bone cement; Clinical lab; Clinical SRM's; Dental research; Health research; Implant materials; Lead paint poisoning; *DIM/NBS 58*, No. 5, 97-120 (1974). SP305-6.
- MUMPS Development Committee; MUMPS Language Standard; Data handling language; Interactive computing; Interpretive computer programming language and operating system; Medical automation; Minicomputer-based systems; MUMPS; *H118*. SP305-7.
- MUMPS Language Standard; Data handling language; Interactive computing; Interpretive computer programming language and operating system; Medical automation; Minicomputer-based systems; MUMPS; MUMPS Development Committee; *H118*. SP305-7.
- Municipal systems; Technology transfer; Information systems; Management information systems; *13413*. SP305-5.
- Munsell value; Reflectance; Contrast; Crispness; Lightness; *9410*. SP305.
- Munsell-value; Reflectance; Background effect; *12723*. SP305-4.
- Muon; M-spin; Scattering amplitudes; Weinberg; Gauge theories; Lepton; *14942*. SP305-7.
- Muon; Neutrino; Weak interaction; Beta decay; Carbon; Electromagnetic; Form factor; *13125*. SP305-5.
- Muon number; Neutrino quarks; Strong interactions; Three triplet model; Composite model of leptons; Electron number; Leptonic quarks; Lorks; *15614*. SP305-7.
- Muon-electron universality; Muon number; Neutrino quarks; Strong interactions; Three triplet model; Composite model of leptons; Electron number; Leptonic quarks; Lorks; *15614*. SP305-7.
- Muriate of potash; Potassium chloride; Sylvite; Thermodynamic properties; Heat of fusion; High-temperature drop calorimetry; Lattice vacancies; *J.78A No. 4, 515-529 (1974)*. SP305-6.
- Muscle; Radiochromic dosimeters; X-ray spectra; Bone; Dosimetry; Dyes; Electron dosimetry; Energy dependence; Gamma rays; *15429*. SP305-7.
- Museum; Primary; Reliability; Renovation; Secondary; System; Variable; Anchor; Controls; Corrosion; Growth; Metering; Modern; *BSS66*, pp. 102-115. SP305-7.
- Musical acoustics; Pitch recognition; Absolute pitch sense; Audition; Auditory memory; Hearing; *13556*. SP305-5.
- Musical foghorn; Postal automation; Child-proof matches; Hydrogen arc radiometry; Impact of Federal science; MHD materials research; *TNB 57*, No. 6, 139-152 (1973). SP305-5.
- Mustard gas; Combustion; Dichloroethyl sulfide; Enthalpy; Formation; Heat; *J.79A No. 5, 634-638 (1975)*. SP305-7.
- Mutarotases; Mutarotation of sugars; Pseudo-acyclic intermediates in mutarotation; Sugars, mutarotation of; Thermodynamic data for mutarotations; Acid and base catalysts; Catalysis of mutarotation; Deuterium oxide mutarotation of; Isotope effects in mutarotations; *14456*. SP305-6.
- Mutarotation; Oxidation; Bromine; Inositol; Inosose phenylhydrazones; Inosose phenylsazones; *10937*. SP305-2.
- Mutarotation; Pyranose-furanose interconversions; Sugars in solution; Acid-base catalysis in  $\text{D}_2\text{O}$ ; Deuterium isotope effects; D-fructose; D-glucose; Isotope effects; Mechanism of mutarotation; *J.71A2-445, 137-148 (1967)*. SP305.
- Mutarotation of sugars; Pseudo-acyclic intermediates in mutarotation; Sugars, mutarotation of; Thermodynamic data for mutarotations; Acid and base catalysts; Catalysis of mutarotation; Deuterium oxide mutarotation of; Isotope effects in mutarotations; *14456*. SP305-6.
- Mutarotation of sugars; Rearrangement of sugars in alkali; Sugars, enolization and rearrangement of; Tritium exchange, measurement of enolization by; 2-deoxy sugars, enolization of; Acyclic intermediates in mutarotation of sugars; Aldoses, enolization of; *11338*. SP305-2.
- Mutarotation of 3-O- $\alpha$ -D-glucopyranosyl-D-arabinopyranose; Ruff degradation of; Sugars; 3-O- $\alpha$ -D-glucopyranosyl-D-arabinopyranose; Anomeric sugars; *J.72A No. 6, 769-771 (1968)*. SP305-1.
- Mutual adaptation; Objectives; Operations; Physical determinism; Physical environment; Activities; Communication; Courthouse; Human performance; Institutional performance; Judicial system; *SP361, Vol. 1*, pp. 83-91. SP305-4.
- Mutual inductance of coaxial circular filaments; Near-zone magnetic field; Transmitting loop antenna; Loop-antenna field strength; Magnetic field-strength standard; *J.71C4-263, 319-326 (1967)*. SP305.
- Mutual inductor; Stray magnetic field; Transformer; Auxiliary generator; Bridge; Coaxial choke; *J.70C4-233, 221-226 (1966)*. SP305.
- Mutual influences; *n*-butane; *n*-heptane; O-heterocycles; Radio gas chromatographic analysis; Selective inhibition; Selectivity; Self-inhibition; Thermal control; 1-butene; 2-butene; Concurrent reactions; Consecutive reactions; *SP357*, pp. 111-117. SP305-4.
- Mutual-diffusivity; Self-diffusivity; Thermal conductivity; Corresponding-states principle correlation; Cryogenic liquids and liquid mixtures; *10416*. SP305-1.
- Mutuals; Nested; Patterns; Planar; Proximity; Rhombic; Spacing; Antenna; Comparison; Co-planar; Gain; Interactions; *11467*. SP305-2.

MVM tunneling; Surface finish; Surface physics; Tunneling; Field emission; 12836. SP305-4.

$M_n$ ; Polyethylene fractions; Second virial coefficient; Solution properties; End-to-end distance; Light scattering; Linear polyethylene; J.76A No. 2, 156-160 (1972). SP305-4.

Myocardial infarction; Scattering; Surface scattering; Tissue characterization; Ultrasonic spectroscopy; Ultrasound diagnosis; Acoustic impedance; Bragg diffraction; Computer processing; Frequency-dependent attenuation; Internal scattering; SP453, pp. 167-196 (Oct. 1976). SP305-8.

myo-inositol; Acetic anhydride; Aromatization, benzenepentol (pentahydroxybenzene); Ester; Methyl sulfoxide; 10938. SP305-2.

$M_2FeDTPA$ ; Photodecomposition; Preparation; Thermogravimetric analysis; Coordination; Infrared spectroscopy; Magnetic susceptibility; Mössbauer spectroscopy; 10556. SP305-1.

$M_{2,3}$  x-ray emission; Single electron double vacancy process; Double electron single vacancy process; Final state configuration interaction; Krypton; 13604. SP305-5.

$M_{4,5}$  emission spectra; Resonance radiation;  $Yb_2O_3$ ;  $Gd_2O_3$ ; Fluorescence spectra; 14239. SP305-6.

M-6; Kihara; Exp. 6, Morse; Potential functions; Dilute gases; Neon; Krypton; Xenon; Transport coefficients; Correlations; TN352. SP305.

( $m-6$ ) intermolecular potential; Quantum corrections; Second virial coefficient; Statistical mechanics; Thermodynamics; Lennard-Jones gas; J.75A No. 1, 57-89 (1971). SP305-3.

$m-6-8$  potential; Nitrogen; Nonspherical interactions; Oxygen; Second virial coefficient; Thermal conductivity coefficient; Thermal diffusion factor; Viscosity coefficient; Critically evaluated data; J. Phys. Chem. Ref. Data 2, No. 4, 735-756 (1973). SP305-6.

$m-6-8$  potential; Nitrogen; Oxygen; Rare gases; Thermal conductivity; Thermal diffusion; Viscosity; Carbon dioxide; Diffusion; Dispersion coefficients; Methane; 12862. SP305-4.

M-6-8 potential; Nonadditivity; Third virial coefficients; Argon; 13040. SP305-4.

M-6-8 potential; Parameter selection; Second virial coefficients; Transport properties; Dispersion coefficients; TN628. SP305-5.

M-6-8 potential; Polarizability; Polyatomic gases; Pressure second virial coefficients; Quadrupole moment; Statistical mechanics; Clausius-Mossotti function; Dielectric virial coefficients; 13593. SP305-5.

M-6-8 potential; Quadrupole moment; Second virial coefficients; Viscosity coefficient; Nonspherical interactions; Polarizability; 13229. SP305-5.

$m-6-8$  potential function; Rare gases; Thermal conductivity coefficient; Viscosity coefficient; Dilute gas; Kinetic theory; J. Phys. Chem. Ref. Data 2, No. 3, 619-642 (1973). SP305-6.

$m-6-8$  potential quadrupolar gas; Second virial coefficient; Viscosity coefficient; Carbon dioxide; Clausius-Mossotti function; Intermolecular forces; 15521. SP305-7.

Moller scattering; Differential cross section; Ionization; Kilovolt electrons; 12521. SP305-4.

Moller scattering; Mott scattering; Secondary electron; Thin foils; Electron beam; Energy current; 10494. SP305-1.

- N; O; Photochemistry; Vacuum ultraviolet; Atomic lines; Br; C; Flow lamp; *10895*. SP305-2.
- N<sub>IV</sub> transition probabilities; HD 192163 WN6; SP332, pp. 61-64. SP305-2.
- N relative intensity; Enriched source; Ge(Li) detector; Measured  $T_{1/2}$ ; Pressured ionization chamber; Radioactivity  $^{137}\text{Xe}^+$ ; *14812*. SP305-7.
- N spectrum; Soft x-rays; Band structure; Emission spectrum; Gold; *12504*. SP305-4.
- n,n cross sections; Cross sections; Fast-neutron reactions; Reactions; SP425, pp. 240-243. SP305-7.
- NaAlCl<sub>4</sub>; Phase equilibrium; System AlCl<sub>3</sub>-NaCl; System NaCl-AlCl<sub>3</sub>; Immiscibility; *J.78A No. 4, 505-507* (1974). SP305-6.
- NaCl; CsCl; CaF<sub>2</sub>; ZnS; Electric fields; Ionic crystals; Lattice sums; Point defects; Polarization; *J.71A-428, 1-2* (1967). SP305.
- NaCl; Optical distortion; ZnSe; CO<sub>2</sub> laser radiation; CW laser damage; Infrared windows; KCl; SP414, pp. 94-102. SP305-6.
- NaCl; Point defect; CaF<sub>2</sub>; Classical ionic lattice theory; Electrostatic potential; Lattice distortion; *J.72A No. 5, 471-475* (1968). SP305-1.
- NaCl; Point-ion potential; SrF<sub>2</sub>; U centers; BaF<sub>2</sub>; CaF<sub>2</sub>; Ionic polarization; KCl; Mollwo-Ivey relations; *J.77A No. 5, 659-665* (1973). SP305-5.
- NaCl; Point-ion potential; SrF<sub>2</sub>; U centers; BaF<sub>2</sub>; CaF<sub>2</sub>; CdF<sub>2</sub>; Ionic polarization; KCl; Mollwo-Ivey relations; *13963*. SP305-6.
- NaCl; Polarization; Spatially extended defects; CaF<sub>2</sub>; Dipole shell coefficient; Electric fields; *J.72A No. 5, 475-478* (1968). SP305-1.
- NaCl; Pulsed CO<sub>2</sub> TEA laser damage; Transmitted pulse; Waveform distortion; ZnSe; KCl; SP435, pp. 107-117 (Apr. 1976). SP305-8.
- NaCl; Surface damage; Damage threshold; Exit damage; SP387, pp. 175-180. SP305-5.
- NaCl; Window; ZnSe; CO<sub>2</sub> laser radiation; Cu; CW laser damage; Grating; Infrared windows; KCl; Mirror; Mo; SP435, pp. 189-201 (Apr. 1976). SP305-8.
- NaCl pressure scale; Pressure measurement; Ruby fluorescence; Semiconductors; Transition pressures; Diamond-anvil pressure cell; Fixed point pressure scale; High pressure; *15224*. SP305-7.
- NaCl solution; Passivation; Sheet; Sulfuric acid; Titanium; Tubing; Corrosion; *14516*. SP305-6.
- Na-D photoneutron sources; Radiolysis; Spectrum; Calibration; Construction; SP425, pp. 112-115. SP305-7.
- NADH; N.m.r.; Purity; SRM; Standard Reference Materials; VMA; Bilirubin; Cholesterol; Cortisol; E.s.r.; D-mannitol; *17587*. SP305-4.
- NADH stability; Preparative chromatography on DEAE-cellulose; Spectrophotometric properties of pure NADH; ADP; ADP-ribose; Chromatography; Impurities in NADH preparations; *16316*. SP305-8.
- Nagata spaces; Open neighborhood assignments; Stratifiable spaces; U-linked sequences; Co-convergent; Contra-convergent; *J.79B Nos. 1 and 2, 63-64* (1975). SP305-7.
- Nagata spaces; Open neighborhood assignments; Stratifiable spaces; U-linked sequences; Co-convergent; Contra-convergent; *J.79B Nos. 3 and 4, 103-105* (1975). SP305-7.
- NaHe; Transition probabilities; Hartree-Fock; Interaction energy; LiHe; *12326*. SP305-3.
- NaHPO<sub>3</sub> ion pair; Solubility product; System Ca(OH)<sub>2</sub>-H<sub>3</sub>PO<sub>4</sub>-H<sub>2</sub>O-NaCl; Brushite; CaHPO<sub>4</sub>·2H<sub>2</sub>O; *J.78A No. 6, 675-681* (1974). SP305-6.
- Nails; Screws; Staples; Bolts; Building assemblies; Building components; Building constructions; Framing wood; Improved nails; Mechanical fasteners; Mechanical fastenings; SP361, Vol. 1, pp. 633-642. SP305-4.
- NaK molecule; Spectroscopy; Diatomic mercury; Excimer molecules; Fluorescence; Lasers; *15685*. SP305-7.
- NaLi molecule; Vapor mixtures; Heat-pipe oven; Laser induced resonance fluorescence; *12907*. SP305-4.
- n-alkane; Relaxation process; Young's modulus; Cold-work; Dislocation relaxation; Internal friction; *12581*. SP305-4.
- n-Alkanes; N-nonadecane; Neutron inelastic scattering; Phase transition; Rotational diffusion; Rotator phase; *13488*. SP305-5.
- n-alkanes; n-nonadecane; Neutron scattering; Paraffin; Rotator phase; Molecular dynamics; *13656*. SP305-5.
- n-alkanes; Normal mode; Polyethylene; Quasiharmonic specific heat; String of beads; Thermal expansion; Thermal properties; Volume; Bulk modulus; Grüneisen; *12305*. SP305-3.
- n-alkanes; Polyethylene; Polymer; Frequency spectrum; Linear chains; *13743*. SP305-5.
- n-alkanes; Polyethylene; Polystyrene; Differential refractive index; Differential refractometer; Lorentz-Lorenz; Molecular weight; *12428*. SP305-4.
- n-alkanes; Polyethylene; Raman spectroscopy; Rotatory lattice modes; *16218*. SP305-8.
- n-alkanes; Polyethylene; Raman-active longitudinal acoustic mode; Localized defects; *16219*. SP305-8.
- n-alkanes; Raman spectroscopy; Rotator phase; Rotational isomerism; *12827*. SP305-4.
- Nanogram; Ion exchange; Microstandards; *11536*. SP305-2.
- Nanosecond; Oscilloscope; Pulse generator; Sweep generator; Time base; Traveling wave oscilloscope; High voltage pulse; *12481*. SP305-4.
- Nanosecond; Time-of-flight; 2 out of 3; 100 Mc/s; Coincidence; Direct-coupled; Gate; *10126*. SP305-1.
- NaN<sub>3</sub> structure; Neutron diffraction; RbN<sub>3</sub> structure; Thermal motion; TiN<sub>3</sub> structure; Ionic crystal; KN<sub>3</sub> structure; Low temperature study; Monovalent metal azides; *15973*. SP305-8.
- NaOD; NaOH; RbOD; RbOH; Vibrational assignment; Alkali hydroxides; High temperature; Infrared; Matrix; *11845*. SP305-3.
- NaOH; RbOD; RbOH; Vibrational assignment; Alkali hydroxides; High temperature; Infrared; Matrix; NaOD; *11845*. SP305-3.
- Naphthalene; Anthracene; Aromatic crystals; Benzene; Excitonic density of states; Molecular crystals; SP323, pp. 261-267. SP305-4.
- Naphthalene; Polymorphism; Anthracene; Benzene; High-pressure; *11800*. SP305-3.
- Naphthalene vapor; Rydberg states; Oscillator strength; Electron energy-loss spectroscopy; *13210*. SP305-5.
- Naphthalene vapor absorption spectrum; Pressure effect on absorption spectrum; Radiationless transitions; Internal conversion; Intersystem crossing; *13317*. SP305-5.
- Naphthylidene ring; Polyacrylonitrile; Propagation; Cyanide groups; Initiation; Isolation; *9489*. SP305.
- Narcotic identification; Narcotics; Spot tests; Street drugs; Centroid color charts; Color spot tests; Drugs of abuse; Experimental detection limits; Field tests; *14697*. SP305-6.
- Narcotics; Spot tests; Street drugs; Centroid color charts; Color spot tests; Drugs of abuse; Experimental detection limits; Field tests; Narcotic identification; *14697*. SP305-6.
- Narrative text editing; Punched paper tape typewriter; Automatic capitalization; Automatic deletions; Automatic stop for revision; Editorial mark sensing; Manual additions; *TN440*. SP305-1.
- Narrow molecular weight distribution; Precise heat capacities; Annealed sample; Atactic polystyrene; Enthalpy increment; Entropy increment; Glass; Glass transformation; Heat capacity calorimetry; Literature values; *10519*. SP305-1.

- Narrow molecular weight polystyrene; Polystyrene standard; Standard Reference Material 705; Characterized polymers; *SP260-33. SP305-4.*
- National; Urban; Building research; Corporate; Historical; Humane; Individual; International; *10621. SP305-1.*
- National Academies of Sciences and Engineering; National Bureau of Standards; Operation BREAKTHROUGH; Performance; Performance criteria; Department of Housing and Urban Development; Housing; Industrialized housing; *SP361, Vol. 1, pp. 255-260. SP305-4.*
- National Advisory Commission for the Flammable Fabrics Act; 1967 Amendments to the Flammable Fabrics Act; Flammable fabrics; Flammability standards; *13362. SP305-5.*
- National Advisory Committee; Procedures; Regulations; Textiles; Wearing apparel; Carpets; Fabrics; Flammable Fabrics Act; *11105. SP305-2.*
- National Advisory Committee; Textiles; Textile technology; Wearing apparel; Fabrics; Flammability; Flammable Fabrics Act; Interior furnishings; *11104. SP305-2.*
- National Bureau of Standards; Corrosion; *10764. SP305-1.*
- National Bureau of Standards; Critical data; Cryogenics; Current awareness service; Data compilation; Information storage and retrieval; Information systems; Literature searches; *12615. SP305-4.*
- National Bureau of Standards; National Conference of States on Building Codes and Standards; Performance concept; Building codes; Building technology; Energy conservation; Evaluation and acceptance system; *14642. SP305-6.*
- National Bureau of Standards; National Measurement System; National Standard Reference Data System; Radio Standards Laboratory; Reference data; Calibration; Cost-effectiveness; Data; Economic growth; Information centers; Measurements; *11036. SP305-2.*
- National Bureau of Standards; National Measurement System; National standards; Self-calibration; Standards, national; Systems concept; Measurement; *11516. SP305-2.*
- National Bureau of Standards; New York State offices; Office buildings; Commercial buildings; Energy conservation; Energy consumption; Manchester office building; *16547. SP305-8.*
- National Bureau of Standards; Office of Invention and Innovation; Technological innovation; Experimental Technology Incentives Program; Inventors; *SP388, pp. 131-135. SP305-6.*
- National Bureau of Standards; Operation BREAKTHROUGH; Performance; Performance criteria; Department of Housing and Urban Development; Housing; Industrialized housing; Innovative housing; *SP361, Vol. 1, pp. 255-260. SP305-4.*
- National Bureau of Standards; Organization; Overview; Program descriptions; *SP367. SP305-4.*
- National Bureau of Standards; Pellet variability; Standard reference material; Fractionation; Linear polyethylene; Molecular weight; Molecular weight distribution; *J76A No. 2, 137-138 (1972). SP305-4.*
- National Bureau of Standards; Performance of plumbing systems; Plumbing code; Principles of hydraulics; *15024. SP305-7.*
- National Bureau of Standards; On-line information retrieval systems; Use statistics; Evaluation; *15378. SP305-7.*
- National Bureau of Standards; Programs for architects; Research communication; AIA/NBS Architect-in-Residence; Architectural research; Daylight research; *15606. SP305-7.*
- National Bureau of Standards; Reference methods; SI units; Length; Mass; *15678. SP305-7.*
- National Bureau of Standards; Reference materials; Standard reference materials; Standard Reference Materials program; Accuracy; Measurement; Measurement compatibility; *16549. SP305-8.*
- National Bureau of Standards; Standards; Echelon of standards; Electrical quantities; Environments for standards laboratories; International System derived units; *13103. SP305-5.*
- National Bureau of Standards, dedication; National Bureau of Standards History; National Bureau of Standards Mission; *10131. SP305-1.*
- National Bureau of Standards heating and cooling load computer program; ASHRAE task group on energy requirements; Conduction transfer functions; Heating and cooling load; *B5569. SP305-8.*
- National Bureau of Standards History; National Bureau of Standards Mission; National Bureau of Standards, dedication; *10131. SP305-1.*
- National Bureau of Standards load determination procedure; Computer program for buildings; Conduction transfer functions; Heating and cooling load; *16118. SP305-8.*
- National Bureau of Standards Mission; National Bureau of Standards, dedication; National Bureau of Standards History; *10131. SP305-1.*
- National Bureau of Standards (NBS); National Oceanic and Atmospheric Administration (NOAA); Oil slicks and tar balls; Petroleum hydrocarbon measurement; Sampling methods; World Meteorological Organization (WMO); Analytical methods; *SP409. SP305-6.*
- National Bureau of Standards publication; National Standard Reference Data System; *12992. SP305-4.*
- National Conference; Reports; Weights; Index; Measures; *SP377. SP305-5.*
- National Conference of Standards Laboratories; Physical measurement; Proceedings NCSL; Metrology management; *SP335. SP305-3.*
- National Conference of Standards Laboratories; Proceedings, 1966 Standards Laboratory Conference; Traceability; United States measurement system; Accuracy; Calibrations; Conferences, 1966 Standards Laboratory; Foreign standards laboratories; *M291. SP305.*
- National Conference of Standards Laboratories; Physical measurement; Metrology management; *SP313. SP305-1.*
- National Conference of States; Performance approach; Performance criteria; Performance methodology; Regulatory system; Agrément system; Building code of New York State; Building codes; Human requirements; *14513. SP305-6.*
- National Conference of States on Building Codes and Standards; Quality assurance testing; Testing laboratory; Building codes; Building manufacturer; Coordinated Evaluation System; Engineering analysis; Laboratory accreditation; *13057. SP305-4.*
- "National Conference of States on Building and Standards"; Uniformity; Interstate; Intra-state; *12081. SP305-3.*
- National Conference of States on Building Codes and Standards; Performance concept; Building codes; Building technology; Energy conservation; Evaluation and acceptance system; National Bureau of Standards; *14642. SP305-6.*
- National Data Base; Anthropometric survey; Biostereometric body-dimensions; *NBSIR 74-506. SP305-6.*
- National economy; National/international measurement system; International measurement; Measurement system; *15171. SP305-7.*
- National electrical safety code; Safety standards for utility tunnels; Underground communication facility; Underground electric facilities; Utility tunnel safety; Coordination of utility facilities; *14671. SP305-6.*
- National electrical units; Nonmagnetic facility; Pellat dynamometer; Proton precession frequency; Absolute ampere; determination; Calculable inductor; Current balance; *9325. SP305.*
- National Environmental Policy Act (NEPA); Politics and the environment; Environment; Environmental impact statement; Environmental movement; *13785. SP305-5.*
- National Fire Data System; Data; Fire; Fire incident system; Fire service; Incident reports; Loss; *15632. SP305-7.*



- National Fire Data System; National Fire Survey; Survey; Census Bureau; Consumer Product Safety Commission; Data; Fire; Households; Injury; Loss; 15656. **SP305-7.**
- National Fire Data System; Specifications; State governments; Systems analysis; Design criteria; Fire hazards; Fire losses; Fire reporting; Fire safety; Information systems; *NBS-GCR-73-5*. **SP305-8.**
- National Fire Survey; Survey; Census Bureau; Consumer Product Safety Commission; Data; Fire; Households; Injury; Loss; National Fire Data System; 15656. **SP305-7.**
- National Gallery of Art; Renaissance bronzes; Widener collection; Art restoration; Cellini; Chemical microscopy; 11984. **SP305-3.**
- National goals; Space; Transportation; Agriculture; Compressed gases; Conservation; Cryogenics; Education; Health; 10842. **SP305-1.**
- National goals; Space; Transportation; Agriculture; Compressed gases; Conservation; Cryogenics; Education; Health; 11306. **SP305-2.**
- National goals; Space; Transportation; Agriculture; Compressed gases; Conservation; Cryogenics; Education; Health; 11255. **SP305-2.**
- National government; Representation and codes; Standards; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; *FIPS PUB 6-2*. **SP305-5.**
- National government; Representations and codes; Standard Metropolitan Statistical Areas; Computers; Data processing; Federal Information Processing Standards Publication; *FIPS PUB 8-1*. **SP305-3.**
- National government; Representations and codes; Standards; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; *FIPS PUB 6-1*. **SP305-2.**
- National government; Representations and codes; Standards; States; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; *FIPS PUB 5-1*. **SP305-2.**
- National Institute of Law Enforcement and Criminal Justice; Communications; Digital communications; Guideline; Law enforcement equipment report, Law Enforcement Standards Laboratory; Mobile digital equipment; 16190. **SP305-8.**
- National Measurement System; Cryogenics; Data; Flowmeter; Instrumentation; Measurements; *NBSIR 75-825*. **SP305-8.**
- National Measurement System; Densitometry; Lens evaluation; Microdensitometry; Microscopy resolution charts; 13594. **SP305-7.**
- National Measurement System; Dimensional measurements; Length measurements; 16042. **SP305-8.**
- National Measurement System; National Standard Reference Data System; Radio Standards Laboratory; Reference data; Calibration; Cost-effectiveness; Data; Economic growth; Information centers; Measurements; Metrology; 11036. **SP305-2.**
- National Measurement System; National standards; Self-calibration; Standards, national; Systems concept; Measurement; National Bureau of Standards; 11516. **SP305-2.**
- National measurement system; Noise; Noise control; Noise emission; Sound; Acoustical measurements; Acoustics; 15500. **SP305-7.**
- National Measurement System; Optical quantities; Thermal quantities; Time and frequency; Acoustic quantities; Electrical quantities; Electromagnetic quantities; End-use measurements; Ionizing radiation; Measurement activities; Measurement institutions; *NBSIR 75-943*. **SP305-8.**
- National measurement system; Optical quantities; Surface properties; Thermal quantities; Time and frequency; Acoustics; Atomic properties; Economics; Electrical quantities; Ionizing radiation; Mechanical quantities; *NBSIR 75-947*. **SP305-8.**
- National Measurement System; Photographic density; Technology assessment; Imaging optics; Lens testing; Microcopy resolution charts; *NBSIR 75-942*. **SP305-8.**
- National Measurement System; Radio standards; Electromagnetic measurement; 10154. **SP305-1.**
- National measurement system; Standards; Dynamic force; Economic; Force; Metrication; *NBSIR 75-929*. **SP305-8.**
- National Measurement System; Standards; Thermometry; Data; International Practical Temperature Scale; Measurements; *NBSIR 75-932*. **SP305-8.**
- National Measurement System; Position location; Shipping and boating industries; Standards laboratories; Telephone industry and specialized carriers; Time and frequency; Time scales; Users of NBS radio broadcasts; Atomic frequency standards; Aviation industry; *SP445-1*. **SP305-8.**
- National Measurement System; Surface finish; Surface roughness; Calibration; Economic dimensions; 15395. **SP305-7.**
- National measurement system; Technology transfer; Voluntary standards; Computer science; Laboratory accreditation; Measurement; 14920. **SP305-7.**
- National Metric Study Conferences; SI; U.S. Metric Study; Consumers; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; *SP345-7*. **SP305-3.**
- National Metric Study Conferences; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; *SP345-12*. **SP305-3.**
- National Network Simulation system; Commodity flow analysis; Economic analysis; *NBSIR 75-918*. **SP305-8.**
- National Oceanic and Atmospheric Administration (NOAA); Oil slicks and tar balls; Petroleum hydrocarbon measurement; Sampling methods; World Meteorological Organization (WMO); Analytical methods; Data reporting procedures; *SP409*. **SP305-6.**
- National policies; Public concern; Executive programs; Information management; Information processing; Legislative programs; 16245. **SP305-8.**
- National priorities; National problems; Technological innovation; Business management; Inventor-entrepreneur; *SP388*, pp. 31-36. **SP305-6.**
- National problems; Technological innovation; Business management; Inventor-entrepreneur; National priorities; *SP388*, pp. 31-36. **SP305-6.**
- National programs; Rate constant data; Chemical kinetics; CODATA kinetics task group; Compilation; Evaluation; Kinetics; 14319. **SP305-6.**
- National Retail Merchants Association; Retail industry; Retail merchandising; Voluntary standards; Automated customer identification; Automated merchandise identification; Automatic reading technology; Automation technology for retail industry; Computers; 13452. **SP305-5.**
- National Science Computer Network; Network management; Computer networks; 15448. **SP305-7.**
- National Science Foundation; RANN; Research grants; Fire programs; Fire research; *SP411*, pp. 230-238. **SP305-6.**
- National standard; Radiation source; Radioactive; Radioluminous products; Self-luminous sources; Test procedures; Classification; Containment; Designation; Light sources; *H116*. **SP305-8.**
- National Standard Reference Data System; Scientific and technical librarians; Special Libraries Association; Survey; Users; Properties data; 12626. **SP305-4.**

National Standard Reference Data System; National Bureau of Standards publication; 12992. **SP305-4.**

National Standard Reference Data System; Objectives; Operation; Status; Future plans; 9283. **SP305.**

National Standard Reference Data System; NBS in the coming decade; Public health and safety; Self-calibration by users; Special NBS facilities; Astin-Branscomb transition; Astin legacy; Compatibility and reproducibility of measurements; 14344. **SP305-6.**

National Standard Reference Data System; Properties data; Survey; Users; 14498. **SP305-6.**

National Standard Reference Data System; Radio Standards Laboratory; Reference data; Calibration; Cost-effectiveness; Data; Economic growth; Information centers; Measurements; Metrology; National Bureau of Standards; 11036. **SP305-2.**

National Standard Reference Data System; Physical sciences; Critically evaluated numerical data; 15305. **SP305-7.**

National Standard Reference Data System; Cumulative property index; Data compilations; *NSRDS-NBS55*. **SP305-7.**

National standards; Consumer standards; DoC-NBS voluntary product standards; International standardization; International trade; 14467. **SP305-6.**

National standards; Optimum allocation; Secondary standards; Calibration of errors; 9650. **SP305-1.**

National standards; Precision audiofrequency signal generation; Precision FM signal generation; Precision phase angle generation; Radio navigation; VOR; Aircraft navigation systems; Digital frequency synthesis; 16530. **SP305-8.**

National standards; Product standards; Recommended practices; Specifications; Test methods; Certification programs; Consumer products; Household products; Industry standards; International recommendations; *TN762*. **SP305-5.**

National standards; Product standards; Standards; Certifications programs; Consumer products; Household products; Industry standards; International recommendations; *TN705*. **SP305-4.**

National standards; Self-calibration; Standards, national; Systems concept; Measurement; National Bureau of Standards; National Measurement System; 11516. **SP305-2.**

National standards activities; Recommended practices; Specifications; Standardization activities; Standards; States—standardization activities; Test methods; Codes; Consensus system; Directory; Federal Government—standardization; Industry standards activities; *SP417*. **SP305-7.**

National standards laboratories; Precision electromagnetic measurements; Standards laboratories; Measurement system; 9874. **SP305-1.**

National system; Reference samples; Testing laboratories; Accreditation; Certification; Evaluation; 13056. **SP305-4.**

National temperature measurement system; Temperature scale; Thermometer calibration; Thermometer production; Thermometry; Measurement accuracy; 15060. **SP305-7.**

National time/frequency standards; NBS time and frequency; Precise Time and Time Interval (PTTI); Time; Time coordination; Time interval; Time scales; Treaty of the Meter (standards); U.S.A. standard time zones; USNO time and frequency; *TN649*. **SP305-6.**

National unified atomic standards; Proper time; Universal coordinated time; Coordinate time; Local atomic standards; Metric time; 11331. **SP305-2.**

National/international measurement system; International measurement; Measurement system; National economy; 15171. **SP305-7.**

Nationwide evaluation; Physician; Technologist; X-ray departments; X-ray trends; Diagnostic; *SP456*, pp. 147-152 (Nov. 1976). **SP305-8.**

Native aggregation; Temperature coefficient; Collagen; End-to-end bonding; Hydrophobic bonding; Lateral aggregation; 9436. **SP305.**

"Native" aggregation; Volume change; Collagen; Dilatometry; Hydrophobic bonding; 9622. **SP305-1.**

Native-type fibril formation; Phase transition; Precipitation kinetics; Aggregation; Collagen; Fibrils; Hydrophobic bonding; 14245. **SP305-6.**

NaTi; Polarization;  $V_0Ga$ ; AuGa; BiIn; Bismuth; Diamagnetism; Knight shift; 12085. **SP305-3.**

<sup>nat</sup>Ne; <sup>20</sup>Ne; <sup>22</sup>Ne; Neon; Vapor pressure; Fixed point; 13601. **SP305-5.**

N-atoms;  $N_2$  first positive bands; Nitrogen afterglow; Atom recombination; Energy transfer; Lewis-Rayleigh afterglow; 14010. **SP305-6.**

Natural; Natural rubber; Rubber; Strain-time relations; Vulcanizates; Compliance; Creep; Dicumyl peroxide vulcanizates; Indentation of rubber; Modulus; 11793. **SP305-2.**

Natural; Relative; Survey; Isotope ratios; Magnesium; 9629. **SP305-1.**

Natural aging; Old paper; Paper, aging of; Paper, stability of; Paper testing; Stability of paper; Aging of paper; Archival materials; *NBSIR 74-501*. **SP305-7.**

Natural aging; Paper; Paper aging; Tests for paper; Accelerated aging; Aging; Aging of cellulose; Aging of paper; Cellulose; Cellulose aging; *NBSIR 74-499*. **SP305-6.**

Natural aging; Paper, permanent; Paper, stability; Permanent papers; Record papers; Stability of paper; Accelerated aging; Aging; *NBSIR 74-632*. **SP305-7.**

Natural aging; Permanence; Record materials; Record papers; Stability; Accelerated aging; *NBSIR 75-739*. **SP305-7.**

Natural analysis; Tall buildings; Wind profiles; Boundary layer; Hurricanes; Loads (forces); 15899. **SP305-8.**

Natural and synthetic beryls; Neutron activation analysis; Cesium and scandium content; *SP422*, pp. 1257-1274 (Aug. 1976). **SP305-8.**

Natural convection; Enclosures; Flow visualization; Modeling; 11785. **SP305-2.**

Natural convection; Enclosures; Flow visualization; Modeling; 11161. **SP305-2.**

Natural convection; Numerical; Circular cylinder; Enclosures; 11784. **SP305-2.**

Natural convection; Numerical; Circular cylinder; Enclosures; 11162. **SP305-2.**

Natural convection; Numerical; Enclosures; Finite-difference; Fluid flow; *J72B No. 4, 281-301 (1968)*. **SP305-1.**

Natural convection; Sphere; Vertical cylinder; Cryogenic; Heat transfer; Hemisphere; Horizontal cylinder; Liquid deuterium, liquid hydrogen, liquid nitrogen; *NBSIR 75-807*. **SP305-7.**

Natural convection; Sphere; Vertical cylinder; Cryogenics; Heat transfer; Hemisphere; Horizontal cylinder; Liquid deuterium, liquid hydrogen, liquid nitrogen; 16207. **SP305-8.**

Natural disaster; Storm; Structural engineering; Technological aid; Earthquake; Japan; *SP444*, pp. VI-25—VI-31 (Apr. 1976). **SP305-8.**

Natural disaster; Structural connections; Typhoons; Wind loads; Buildings; Codes and standards; Housing; Hurricanes; Low-rise buildings; *NBSIR 75-790*. **SP305-8.**

Natural disasters; Optimal; Tornadoes; Total cost minimization; Benefit-cost analysis; Disaster mitigation; Earthquakes; Economics; Efficient; Floods; Hurricanes; *NBSIR 74-473*. **SP305-6.**

Natural disasters; Philippines; Socioeconomic aspects; Typhoons; Construction; Design; Developing countries; Earthquakes; Low-cost housing; *NBS-GCR 73-21*. **SP305-8.**

Natural disasters; Physical security; Risk analysis; Security audit; Security awareness; Supporting utilities; ADP security; Computer reliability; Contingency plans; Federal Information Processing Standard; Fire safety; *FIPS PUB 31*. **SP305-6.**

Natural disasters; Seismic; Structural engineering; Building; Codes; Earthquake damage; Earthquakes; Hazards; Hospital; 14759. **SP305-7.**

- Natural disasters; Structural analysis; Tall buildings; Wind profiles; Boundary layer; Hurricanes; Loads (forces); *14639*. SP305-6.
- Natural disasters; Structural engineering; Wind damage; Wind loads; Buildings; Codes and standards; Cyclones; *15609*. SP305-7.
- Natural disasters; Structures; Building codes; Buildings; Earthquakes; Hazards; *TN807*. SP305-5.
- Natural disasters; Structures; Building; Building codes; Earthquakes; Hazards; *14535*. SP305-6.
- Natural disasters; Structures; Windstorms; Buildings; Construction; Design; Developing countries; Earthquakes; Low-cost housing; *B5548*. SP305-6.
- Natural gas; Petroleum; Physical properties; Standard reference materials; Coal; Energy; Fuel; Graphite; Hydrocarbons; Metering; Methane; *SP434*. SP305-8.
- Natural hazards; Numerical subscripts; Patterns; Strings; Vocabulary; Atom symbols; Bond symbols; Chemical diagrams; Formal grammar; Language; Linguistic analysis; *12673*. SP305-4.
- Natural hazards; Structural engineering; Tornadoes; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; *B5561*. SP305-7.
- Natural hazards; Structural engineering; Tornadoes, wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; *SP444*, pp. V-35—V-49 (Apr. 1976). SP305-8.
- Natural hazards; Structural engineering; Tornadoes; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; *NBS-GCR-75-36*. SP305-8.
- Natural hazards; Structural engineering; Tornadoes; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; *NBS-GCR-75-37*. SP305-8.
- Natural hazards; Structural engineering; Tornadoes; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; *NBS-GCR-75-38*. SP305-8.
- Natural homomorphism; Parabolic classes; Automorphisms; Elliptic classes; Finite fields; Genus; Modular group; *14972*. SP305-7.
- Natural iron target; Nuclear reaction  $^{56}\text{Fe}$  (n,  $\gamma$ ); Relative partial radiation widths;  $\gamma$ -transitions in  $^{56}\text{Fe}$  of  $^{56}\text{Fe}$  resonances;  $E_{\gamma}$  = 7.70 keV; *SP425*, pp. 816-818. SP305-7.
- Natural language; OMNITAB II computing system; Regression; Statistical problem solving; Distribution of first significant digit; Dutch; Graeco-Latin square; Language translation; *13120*. SP305-5.
- Natural markings; Slabs; Slate; Standard sizes; Thickness; Tolerances; Blackboards; Dimensions; *P52-66*. SP305.
- Natural radioactivity; Standard reference materials; Trace elements; Analytical methods; Coal; Environmental samples; Environmental standards; Fly ash; Instrumental neutron activation analysis (INAA); *SP422*, pp. 211-223 (Aug. 1976). SP305-8.
- Natural resources; Reclamation; Conservation; Materials recovery; *15603*. SP305-7.
- Natural rubber; Neoprene; Physical constants; Polymers; Properties; Rubbers; Styrene-butadiene rubber; Butyl rubber; Constants; *10136*. SP305-1.
- Natural rubber; Neoprene; Physical constants; Polymers; Properties; Rubbers; Styrene-butadiene rubbers; Butyl rubber; Constants; *14858*. SP305-7.
- Natural rubber; Normal and supercooled liquid; Rubber, natural; Thermal diffusivity; Thermodynamic properties; Annealed and quenched glass; Calorimetry; *cis-1,4-polyisoprene*; Glass transformation; Heat capacity; *J.75A No. 2*, 113-120 (1971). SP305-3.
- Natural rubber; Rubber; Strain-time relations; Vulcanizates; Compliance; Creep; Dicumyl peroxide vulcanizates; Indentation of rubber; Modulus; Natural; *11793*. SP305-2.
- Natural rubber; Scaling law; Simple materials assumption; Elasticity; Finite torsion; *16278*. SP305-8.
- Natural rubber; Strain energy; Volume-extension; Compressibility; *12961*. SP305-4.
- Natural rubber; Strain waves; Viscoelasticity; High-speed photography; Impact testing; *10433*. SP305-1.
- Natural rubber; Sulfur; Tetramethylthiuram disulfide; Vulcanization; Zinc dibutylthiocarbamate; Zinc dimethylthiocarbamate; Accelerators; Far infrared; *J.71A-432*, 19-23 (1967). SP305.
- Natural standards; Wavelength standards; Atomic frequency standards; Fundamental standards; Lord Kelvin; Maxwell; *14522*. SP305-6.
- Natural U; Resonance parameters  $\Gamma_n$  up to 5 keV; Three thicknesses; Transmission measurements; 190-m flight path; Background; JAEA line; *SP425*, pp. 738-741. SP305-7.
- Natural ultraviolet; Radiometry; Solar irradiance; Spectroradiometry; Ultraviolet; *11455*. SP305-2.
- Natural water; Sample storage; Sampling; Accuracy; Analytical chemistry; Contamination; Errors; *SP422*, pp. 805-836 (Aug. 1976). SP305-8.
- Natural weathering; Stone decay; Stone preservation; Air pollution; Historic structures; Laboratory evaluation; *NBSIR 74-444*. SP305-6.
- Naturalistic studies; Safety; Accident research; Countermeasures; Epidemiology; Laboratory research; Methodology; *NBS-GCR-76-75*. SP305-8.
- Naturally occurring monosaccharides and 6-deoxy sugars; Oxidation of polycyclic aromatic hydrocarbons; Phenylhydrazono-phenylazo tautomerism; Quebrachitol, levo-inositol; Standard reference materials; 1,2-O-isopropylidene- $\beta$ -L-idofuranose; *TN427*. SP305.
- Naval hydrodynamics; Hydraulic; Hydrology; *M280*. SP305.
- Navier-Stokes; Stability; Thermal conductivity; Viscosity; Absorption; Acoustic propagation; Fluids; Kirchhoff-Langevin; *11694*. SP305-2.
- Navigation; Pulse propagation; Radio positioning; Time dissemination; Time transfer system; Cyclan; Cytac; Loran; Loran-C; Low frequency; *Monogr. 129*. SP305-4.
- Navigation; Satellite tracking; VHF satellite transponder; Atomic clocks; Clock synchronization; Geodesy; Ionospheric propagation; *10955*. SP305-2.
- Navigation system; Satellite time and frequency dissemination services; Communication satellite; Communication system; HF time dissemination services; *16644*. SP305-8.
- $\text{Na}_2^+$ ; Pseudopotential;  $\text{Rb}_2^+$ ; Resonant charge transfer; Atom; Collision;  $\text{Cs}_2^+$ ; Ion;  $\text{Li}_2^+$ ; Low energy; *15075*. SP305-7.
- $\text{Na}_2$ ; Laser-induced fluorescence; Laser-molecular level crossing; Level crossing; Molecular fluorescence; Molecular spectroscopy; *11549*. SP305-2.
- $\text{Na}_2$ ; Resonance fluorescence; Alkali dimers; Laser-induced fluorescence; Molecular fluorescence; Molecular spectroscopy; *11533*. SP305-2.
- $\text{Na}_2$ ; Transition moment; Electronic dipole moment; Internuclear distance; Laser fluorescence; *14810*. SP305-7.
- $\text{Na}_2\text{O}$ - $\text{B}_2\text{O}_3$ - $\text{SiO}_2$ ;  $\text{SiO}_2$ - $\text{B}_2\text{O}_3$ - $\text{Na}_2\text{O}$ ;  $\text{B}_2\text{O}_3$ - $\text{Na}_2\text{O}$ - $\text{SiO}_2$ ; Glass; Immiscibility; Melts; Microheterogeneities; *11585*. SP305-2.
- $\text{Na}_2\text{O}$ - $\text{IrO}_3$  system;  $\text{Na}_2\text{O}$ - $\text{PtO}_3$  system; Phase relations; Compounds; Dissociation; *14012*. SP305-6.
- $\text{Na}_2\text{O}$ - $\text{PtO}_3$  system; Phase relations; Compounds; Dissociation;  $\text{Na}_2\text{O}$ - $\text{IrO}_3$  system; *14012*. SP305-6.
- $\text{Na}^{23}$ ; Self shielding factor; 24 keV; 160 keV; Fe; Multigroup capture cross section; *SP425*, pp. 961-963. SP305-7.
- Nb; Alloys; Magnetism; Mo; Mössbauer Effect; *12220*. SP305-3.
- Nb-doped  $\text{SrTiO}_3$ ; Reduced  $\text{SrTiO}_3$ ; Superconductivity; Transition temperatures; Uniaxial compression; 0-1.8 kbars stress; Anisotropic stress effect; Hydrostatic pressure; *11767*. SP305-2.
- Nb-doped  $\text{SrTiO}_3$ ; Superconductivity; Transition temperature maximum; Transition temperatures; Charge carrier density; *11421*. SP305-2.

- N-body dynamics; Overlap function  $W$ ; Overlapping configuration; Binary collision expansion; Binary collision operator; Hard sphere dynamics; 11499. SP305-2.
- $\text{NbPO}_4$ ;  $\text{Nb}_2\text{P}_2\text{O}_{15}$ ;  $\text{Nb}_4\text{PO}_{25}$ ;  $\text{Nb}_4\text{P}_3\text{O}_{115}$ ;  $\text{P}_2\text{O}_5$ — $\text{Nb}_2\text{O}_5$ ; Phase diagram;  $\text{ReO}_3$ -type compounds;  $\text{Nb}_2\text{O}_5$ — $\text{P}_2\text{O}_5$ ; 11903. SP305-3.
- NBS; Noise correlation; NSS; Optimum filter; Phase noise; Radio propagation; Time comparison; USNO; VLF propagation; WWVL; Effect of mass on frequency; Flicker noise; 11241. SP305-2.
- NBS; Operations research/systems analysis studies; OR users and producers; Research; Conference proceedings; Contract research; Federal government; Information exchange; SP347. SP305-3.
- NBS; Photography; Standardization; Densitometry; 9907. SP305-1.
- NBS; Quality control; U.S. AID; Africa; Asia; Engineering standards; Industrialization; Latin America; Less-developed countries; Measurement standards; SP359. SP305-4.
- NBS; Radiometry; Sources; Standards; Survey; Ultraviolet; Detectors; SP456, pp. 107-110 (Nov. 1976). SP305-8.
- NBS; Standard time; Time; USNO; Astronomical time; Atomic time; Frequency; International atomic time; Management; 13062. SP305-5.
- NBS; Standard time; Time; USNO; Astronomical time; Atomic time; Frequency; International Atomic Time; Management; 14265. SP305-6.
- NBS; Transducer workshop; 10455. SP305-1.
- NBS ampere; Pitch measurement; Fine structure constant; Fundamental constant; Gyromagnetic ratio of proton; 13100. SP305-5.
- NBS analyzer; NBS FORTRAN test routines; Networking; Systematic testing; Testing tools; Dynamic analysis; TN874. SP305-7.
- NBS authority; Package control; State authority; Weights and measures; 9808. SP305-1.
- NBS cartridge brass; NBS low-alloy steel; Optical metallurgy; Solids mass spectrometer; Standards of composition; Electron probe microanalyzer; Homogeneity—standards; 10806. SP305-1.
- NBS computer system; Scientific text; Users manual; Character codes for scientific text; Computerized text processing; 13598. SP305-5.
- NBS corrosion section; Passivity; Ultra-high vacua; Corrosion; Ellipsometry; Field-electron emission microscopy; Low-energy diffraction; 9890. SP305-1.
- NBS cryogenic data center; Thermodynamic and transport properties; Cryogenic data center; Cryogenic fluids; Low temperature properties of materials; 9255. SP305.
- NBS equation; Scaling laws; Statistical analysis; Steam; Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; Methane; 15601. SP305-7.
- NBS equation; Scaling laws; Statistical analysis; Steam; Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; Methane; JPCRD 5, No. 1, 1-52 (1976). SP305-8.
- NBS flow capabilities; Calibration; Flow measurement; Flowmeters; Flowrate; Fluid flow; Fluid meters; 12620. SP305-4.
- NBS FORTRAN test routines; Networking; Systematic testing; Testing tools; Dynamic analysis; NBS analyzer; TN874. SP305-7.
- NBS frequency standard; Time scale; Allan variance; Cesium beam; Frequency stability; Hydrogen maser; 11922. SP305-3.
- NBS, GSA experiment; Optical spectra; Plastic pipes; Thermal conductivity; Computer; Cryogenic; Cryptography; Data; Energy labeling; Energy needs; Fluid safety; Materials; DIM/NBS 59, No. 9, 193-216 (1975). SP305-7.
- NBS in the coming decade; Public health and safety; Self-calibration by users; Special NBS facilities; Astin-Branscomb transition; Astin legacy; Compatibility and reproducibility of measurements; Contributions to basic science; Design and performance standards; 14344. SP305-6.
- NBS Linac; Cockcroft-Walton generator; Digital computers; Activation analysis; Standard reference materials; Photo-neutron reactions; Flux monitors; Cu, Se, Al, V in irons and steels; Homogeneity testing; Pneumatic rabbit sensor; TN404. SP305.
- NBS LINAC; NBS Reactor; Neutron flux measurements; Photofission; Standard reference materials; Tetracycline; Activation analysis; Ancient stained glass; Carbon; Cockcroft-Walton neutron generator; Coincidence spectrometer; TN508. SP305-2.
- NBS LINAC; NBS reactor; Photon activation analysis sensitivities; Standard reference materials; Zinc; Activation analysis; Cockcroft-Walton neutron generator; Computer literature searching; Extraction; Group separations; Homogeneity testing; TN458. SP305-1.
- NBS LINAC; NBS reactor; Photoneutron reactions; Self-absorption corrections; Standard reference materials; Vanadium in irons and steels; Activation analysis; Biological; Botanical samples; Carbon in sodium; Cockcroft-Walton generator; Digital computers; Flux monitors; High precision 14 MeV neutron activation; Homogeneity testing; Instrumentation; TN428. SP305.
- NBS LINAC; NBS reactor; Standard reference materials; Activation analysis; Cockcroft-Walton neutron generator; Computer programming; TN548. SP305-2.
- NBS Linac; Nickel-61; PARLORS program for Mossbauer spectra; Photoneutron reaction; Solid state detectors; Standard reference materials; Tin standard for chemical shift; Computers; Cross sections; Detection limits for analysis; Flux monitors; TN421. SP305.
- NBS low-alloy steel; Optical metallurgy; Solids mass spectrometer; Standards of composition; Electron probe microanalyzer; Homogeneity—standards; NBS cartridge brass; 10806. SP305-1.
- NBS microcalorimetry; Testing of microcalorimeter; Clinical chemistry; Clinical microcalorimetry; Microcalorimeter; NBSIR 73-180. SP305-6.
- NBS photoelectric pyrometer; Photoelectric pyrometer, NBS Pyrometer, photoelectric, NBS; Calibration, NBS photoelectric pyrometer of 1961; International Practical Temperature Scale; 9882. SP305-1.
- NBS programs; Buildings; Energy; Energy conservation; 16120. SP305-8.
- NBS publications; Key words; Publications; Abstracts; SP305 Supplement 7. SP305-8.
- NBS P2-20 (1965) scale; "speed of sound" isotherms; Viscosity; Acoustical thermometer; Calibrator; Germanium thermometers; Heat conduction; TN765. SP305-5.
- NBS reactor; NBS Linac; Cockcroft-Walton generator; Digital computers; Activation analysis; Standard reference materials; Photo-neutron reactions; Flux monitors; Cu, Se, Al, V in irons and steels; Homogeneity testing; Pneumatic rabbit sensor; TN404. SP305.
- NBS reactor; Neutron flux measurements; Photofission; Standard reference materials; Tetracycline; Activation analysis; Ancient stained glass; Carbon; Cockcroft-Walton neutron generator; Coincidence spectrometer; Group separation; Homogeneity testing; TN508. SP305-2.
- NBS reactor; Photon activation analysis sensitivities; Standard reference materials; Zinc; Activation analysis; Cockcroft-Walton neutron generator; Computer literature searching; Extraction; Group separations; Homogeneity testing; TN458. SP305-1.





- Nb<sub>3</sub>Sn multifilamentary wires; Strain; Stress; Superconducting magnets; Critical currents; Magnets; Magnet wire; Nb<sub>3</sub>Sn; Nb<sub>3</sub>Sn magnets; 16474. SP305-8.
- Nb<sub>4</sub>P<sub>2</sub>O<sub>15</sub>; P<sub>2</sub>O<sub>5</sub>-Nb<sub>2</sub>O<sub>5</sub>; Phase diagram; ReO<sub>3</sub>-type compounds; Nb<sub>2</sub>O<sub>5</sub>-P<sub>2</sub>O<sub>5</sub>; NbPO<sub>4</sub>; Nb<sub>2</sub>P<sub>4</sub>O<sub>15</sub>; Nb<sub>8</sub>PO<sub>25</sub>; 11903. SP305-3.
- Nb<sub>4</sub>PO<sub>25</sub>; Nb<sub>44</sub>P<sub>2</sub>O<sub>115</sub>; P<sub>2</sub>O<sub>5</sub>-Nb<sub>2</sub>O<sub>5</sub>; Phase diagram; ReO<sub>3</sub>-type compounds; Nb<sub>2</sub>O<sub>5</sub>-P<sub>2</sub>O<sub>5</sub>; NbPO<sub>4</sub>; Nb<sub>2</sub>P<sub>4</sub>O<sub>15</sub>; 11903. SP305-3.
- N-channel metal-oxide-semiconductor (N-MOS); Random-access-memory (RAM); Silicon; Cells; Charge-coupled device (CCD); Chevron; Garnet; Large-scale-integration (LSI); Line width; Lithography; Magnetic bubble device (MB); Memory storage density; 16647. SP305-8.
- NCN A <sup>3</sup>II; NCN<sub>3</sub>; Photodissociation; Vacuum ultraviolet; Absorption coefficient; Bond dissociation energies; CN B <sup>2</sup>Σ; 13318. SP305-5.
- NCN free radical; Thermodynamic properties; Ultraviolet photolysis; Carbon atom production; Carbon atom reactions; Cyanogen azide; Force constants; Infrared spectrum; 9369. SP305.
- NCN free radical; Thermodynamic properties; Ultraviolet spectrum; Carbon suboxide photolysis; C atom reactions; C atom sources; CNN free radical; Cyanogen azide photolysis; Force constants; Infrared spectrum; Matrix isolation; 9947. SP305-1.
- NCN reaction; Photolysis; CF<sub>2</sub>; CF<sub>3</sub>; Cyanogen azide; Difluorocyanamide; F atom reaction; F<sub>2</sub> reaction; FCN; Infrared spectrum; Isotopic substitution; Matrix isolation; 11231. SP305-2.
- NCN reactions; Photolysis; Thermodynamic properties; C atom reactions; Cyanogen azide; Electronic spectrum; Force constants; HCCI free radical; HCl reaction; Infrared spectrum; Matrix isolation; Monochlorocarbodiimide; Monochlorocyanamide; 10275. SP305-1.
- NCN<sub>3</sub>; Photodissociation; Vacuum ultraviolet; Absorption coefficient; Bond dissociation energies; CN B <sup>2</sup>Σ; NCN A <sup>3</sup>II; 13318. SP305-5.
- NCO A<sup>2</sup>Σ; NH A<sup>2</sup>π, c<sup>4</sup>π; Photodissociation; Vacuum ultraviolet; Bond dissociation energy; Fluorescence; HNCO; 12012. SP305-3.
- NCO free radical; NO reaction; O<sup>3</sup> atom reaction; Ultraviolet spectrum; Vacuum ultraviolet photolysis; C atom reaction; CN reaction; HN<sub>2</sub> photolysis; Infrared spectrum; Matrix isolation; 10405. SP305-1.
- n-complex variables; Rational numbers; Convolution product; Differential equations; Diophantine approximation; Irrational numbers; 11702. SP305-2.
- NCSBCS; ASHRAE 90-P; Building codes; Mobile homes; SP429. SP305-7.
- NCSBCS; On-site construction; Prefabricated construction; Standards; State-local relationship; State regulations; Building codes; Factory-built housing; Industrialized building; Inspection; Manufactured building; Model codes; Model documents; NBS-GCR-74-27. SP305-8.
- NCSBCS; Standards; State regulation; Building codes; Certification; Compliance assurance; Evaluation; Inspection; Manufactured building; Model documents; BSS87. SP305-8.
- Nd: YAG laser; Self-focusing; Subnanosecond pulses; Damage mechanisms in laser systems; Disc amplifiers; SP372, pp. 100-103. SP305-4.
- NdCl<sub>3</sub> (neodymium trichloride); PrCl<sub>3</sub> (praseodymium trichloride); Temperature measurement; Heat capacity; Magnetic entropy; Magnetic susceptibility; 9923. SP305-1.
- Nd-doped glass; Platinum; Stress components; Thermoelastic theory; Antimony; Heat conduction; Laser materials; J75A No. 4, 247-260 (1971). SP305-3.
- Nd-doped glass; Platinum; Stress components; Thermoelastic theory; Antimony; Heat conduction; Laser materials; 12133. SP305-3.
- n-degree elliptical ring; Nonlinear programming; Optimization; Proving ring; Structural design; Theory; Curved bar analysis; Elasticity; Force transducer; J72C No. 2, 139-160 (1968). SP305-1.
- n-degree elliptical ring; Nonlinear programming; Nonrandom complex method; Optimization; Rib-stiffened plate; Structural analysis; Curved bar analysis; Discrete variables; Elastic; Force transducer; Minimum weight; J72C No. 4, 249-258 (1968). SP305-1.
- Neel point; Ultrasonic attenuation; Antiferromagnetic insulators; Correlation function; Ferromagnetic insulators; Heisenberg; 10418. SP305-1.
- Neel temperature; Spin-flop; Antiferromagnetic transition; Antiferromagnetism; Dipolar interactions; ErPO<sub>4</sub>; Magnetic phase diagram; 16436. SP305-8.
- ν-derivatives; Bessel functions; J72B No. 4, 279-280 (1968). SP305-1.
- Nd-glass lasers; Disc laser; Laser damage; Laser fusion; SP387, p. 63. SP305-5.
- Nd<sub>2</sub> vapor pressure; NH<sub>2</sub> vapor pressure; Binary systems; Gas solubility; He<sup>3</sup>-Nd<sub>2</sub>; He<sup>3</sup>-nD<sub>2</sub>; He<sup>3</sup>-nH<sub>2</sub>; Liquid-vapor equilibrium; TN621. SP305-4.
- Nd<sub>2</sub>; Pressure broadening; Argon mixtures; Inversion spectrum; Line shape; Microwave absorption; 9933. SP305-1.
- Nd<sub>2</sub>Cl<sub>2</sub>; N.m.r.; Quadrupole; Single crystal; 10672. SP305-1.
- Ne; Ar; Atoms; Autoionizing; Cross sections; Electron impact; Excitation; He; Inelastic; 15586. SP305-7.
- Ne I; Resonances; Synchrotron light; 20-150 eV; Absorption spectrum; Analysis; 9638. SP305-1.
- Near and far field patterns; Optical properties; Holography; Laser energy; Laser materials; Laser power; Laser radiometry; Laser standards; Laser transitions; Modulation of lasers; TN449. SP305-1.
- Near field; Non-planar; Patterns; Scanning; Spherical; Symmetry; Antennas; Arrays; Coordinate transformations; Data processing; Group representations; Measurements; NBSIR 75-809. SP305-7.
- Near field; Probe correction; Probe design; Spherical scan; Antenna measurements; Data reduction; 14766. SP305-7.
- Near fields; RF biological hazards; Electromagnetic-field hazards; Electromagnetic-field synthesizer; Electromagnetic radiation-exposure testing (non-ionizing); TN652. SP305-6.
- Near surface dislocation sources; Passive potentials; Single crystals; Active potentials; Critical resolved shear stress; 11039. SP305-2.
- Near-critical flow; Refrigeration; Superconductors; Thermodynamics; Equation of state; Helium; Hydrodynamics; NBSIR 73-331. SP305-6.
- Nearest-neighbor interaction; Oligopeptide; Titration curve; Ion binding; 14544. SP305-6.
- Nearest-neighbor interaction; Substitutional impurity; U-center; Alkali halide crystal; Born-Mayer potential; Deformation dipole model; Effective force constants; Isotopic impurities; Local mode frequencies; 9354. SP305.
- Near-field; Antennas; Error analysis; Measurements; 1566. SP305-7.
- Near-field; Antennas; Extrapolation; Measurements; 1478. SP305-7.
- Near-field; Calibrations; Electromagnetic hazards; Field meter; Gain; Microwave; NBSIR 75-805. SP305-8.
- Near-field and far-field diffraction; Neodymium; Ruby; Laser; 11939. SP305-3.
- Near-field antenna measurements; Antenna gain; Antenna gain measurement; Antenna measurements; Antenna pattern; Antenna pattern measurement; 11967. SP305-3.
- Near-field antenna measurements; Antenna gain; Antenna gain measurement; Antenna measurements; Antenna pattern; Antenna pattern measurement; 11968. SP305-3.
- Near-field diffraction; Neodymium; Ruby; Far-field diffraction; Laser; 11571. SP305-2.

- Near-field energy density; Electric energy density; Energy density; 16563. SP305-8.
- Near-field measurement techniques; Scattering matrix description of electroacoustic transducers; Electroacoustic transducer measurement techniques; TN651. SP305-6.
- Near-field measurements; Acoustics; Electroacoustic transducers; 14900. SP305-7.
- Near-field measurements; New antenna theorems; Antenna gain; Antenna pattern; Calculated far-field patterns; 11856. SP305-3.
- Near-field measurements; Patterns; Gains; Microwave antennas; 11855. SP305-3.
- Near-field measurements; Phased arrays; Antennas; 14090. SP305-6.
- Near-field measurements; Phased arrays; Antennas; NBSIR 74-380. SP305-6.
- Near-field measurements; Phased arrays; Antennas; 14994. SP305-7.
- Near-field measurements; Planar scanning; Plane-wave spectrum; Antennas; Error analysis; Far-field pattern; TN667. SP305-7.
- Near-field measurements; R-f hazard measurements; Semiconducting transmission line; Electric near-field probe; Electromagnetic-field hazard; Field-strength measurements; Magnetic near-field probe; TN658. SP305-7.
- Near-field power; Sound power estimation; Error of sound power; Far-field power; 15492. SP305-7.
- Near-fields; Rf biological hazards; Electromagnetic field hazards; Electromagnetic field synthesizer; Electromagnetic radiation-exposure testing (nonionizing); TN687. SP305-8.
- Near-infrared; Spectrophotometry; Starch; Hydrolyzates; Infrared; Moisture; 14503. SP305-6.
- Nearly planar meniscus; Bessel functions; Calculus of variations; Capillary depression; Laplace's equation; Meniscus; Meniscus height; J73A No. 6, 611-613 (1969). SP305-1.
- Nearly-free molecular regime; Nucleation; Droplet growth; Inverse Knudsen number expansion; Kinetic theory; 12978. SP305-4.
- Near-neighbor interactions; Phase transition; Stochastic matrix; Theta point; Chain partition function; Monte-Carlo computations; 11908. SP305-3.
- Near-resonant scattering; Redistribution; Strontium; Collisions; 16261. SP305-8.
- Near-separating flow; Skin friction near-zero; Turbulence; Turbulent boundary layer; Adverse pressure; Boundary layer; 10081. SP305-1.
- Near-surface source; Screw dislocation; Single crystals; Surface source; "Debris layer"; Edge dislocation; 11546. SP305-2.
- Near-unity voltage ratios; Object-image curves; Paraxial; Two-tube electrostatic lens; Weak lenses; Focal properties; 14170. SP305-6.
- Near-zone antenna measurement; Antenna polarisation and gain measurement; Extrapolation of near-zone antenna measurements; Microwave antenna measurement; 12614. SP305-4.
- Near-zone electric-field-strength standards; Standard-antenna calibration method; Standard-field calibration method; Calibration of field-strength meters; Electric-field-strength standards; Magnetic-field-strength standards; 9761. SP305-1.
- Near-zone magnetic field; Transmitting loop antenna; Loop-antenna field strength; Magnetic field-strength standard; Mutual inductance of coaxial circular filaments; J71C4-263, 319-326 (1967). SP305.
- Nearby lines; Analyses of spectra, grades; Atomic spectra, forbidden lines; Celestial spectra, forbidden lines; Corona, identifications; Forbidden lines; 11453. SP305-2.
- Nearby spectra; Planetary nebulae; Recombination spectra; Forbidden lines; 13817. SP305-6.
- Nebulizer; Pneumatic aspirator; Sample introduction; Solvent removal; Spray; Atomizer; 11173. SP305-2.
- Nebulizer-burner; Organic ligands; Releasing agents; Solvents; Analysis; Atomic absorption; Detection limits; Electrodeless discharge; Interferences; 11427. SP305-2.
- Neck; Volumetric; Air density; Calibration; Gravimetric; NBSIR 73-287. SP305-6.
- Necklace model; Polymer physics; Bead/spring model; Dilute polymer solutions; Eigenvalue; Hydrodynamic interaction; Matrix algebra; J. Res. 80B No. 2, 273-284 (1976). SP305-8.
- Need for clarity of purpose; Performance concept; Plastics in fire; Rain penetration; Robustness of construction; Technical evaluation; Uniformity of assessment; Weathering; Agrément; Durability prediction; Economic aspects; SP361, Vol. 1, pp. 491-502. SP305-4.
- Needs of society; New enterprises; Patent Office; Patent system; Technological policy making; Technology; Antitrust doctrine; Employed inventors; Entrepreneurship; Innovation; Invention; SP388. SP305-6.
- Neel temperature; Amorphous semiconductors; Band tail of localized states; Cluster theory; Coherent potential approximation; Disorder systems; Electronic structure; SP323, pp. 505-507. SP305-4.
- Neel temperature; Shear modulus; Stainless steel; Antiferromagnetic; Cold-work; Fe-Ni-Cr alloys; J70C3-232, 207-210 (1966). SP305.
- Negative current feedback; Waveguide-below-cutoff attenuator; High-power impedance matching; Mode filters; 12890. SP305-4.
- Negative differential flow resistance; Pressure measurement; System dynamics; Thermometers; Cooling system; Cryogenics; Helium-cooled electrical leads; Helium impurities; Microwave cavities; NBSIR 75-823. SP305-7.
- Negative dispersion; Non-local hydrodynamics; Thermal diffusivity; Brillouin scattering; Carbon dioxide-light scattering; Critical point; Density fluctuations in fluids; Landau-Placzek intensity ratio; 9959. SP305-1.
- Negative dispersion relaxation of viscosity; Temporal absorption; Brillouin scattering; Elastic modulus; Liquid; 10277. SP305-1.
- Negative feedback; Noise; Phase noise; RF amplifiers; Transistor noise; Atomic frequency standards; Capacitor noise; Cesium beam; Flicker phase noise; Frequency multipliers; Frequency standards; Hydrogen maser; 10968. SP305-2.
- Negative flow resistance; Supercritical helium; Flow resistance; Helium; Ledinegg instability; 16232. SP305-8.
- Negative glow plasma; Hall effect; Helium; Magnetic field; Momentum transfer; 14318. SP305-6.
- Negative hydroxyl ion; OD<sup>-</sup> ions; OH<sup>-</sup> ions; Photodetachment; Cross section; Electron affinity; Molecular structure; 9285. SP305.
- Negative impedances; Negative losses; Dielectric losses; Dielectric materials; Dielectric measurements; Errors; Low-loss; 9773. SP305-1.
- Negative ion; Cross section; Electron beam; Electron detachment; Electron impact; Ionization; 10101. SP305-1.
- Negative ion; O<sup>-</sup>; O<sub>2</sub><sup>-</sup>; Photodetachment; Photodissociation; CO<sub>2</sub><sup>-</sup>; CO<sub>2</sub><sup>-</sup>-H<sub>2</sub>O; D region; Electron density; Molecule; 15877. SP305-8.
- Negative ion; O<sup>-</sup>; Photodetachment; Photoelectron spectroscopy; Angular distribution; C<sup>-</sup>; H<sup>-</sup>; 10482. SP305-1.
- Negative ion; O<sub>2</sub><sup>-</sup>; O<sub>3</sub><sup>-</sup>; O<sub>4</sub><sup>-</sup>; Photodetachment; Photodissociation; Cross section; Drift tube; Experimental; Molecule; 15478. SP305-7.
- Negative ion; Photodetachment; Radiative attachment experiments; Crossed beam method; Drift tube experiments; I<sup>-</sup>; 11132. SP305-2.
- Negative ion; Photodetachment; S; Cross section behavior; Electron affinity; 13081. SP305-5.

Negative ion; Photodetachment; Water; Electron affinity; 10964. SP305-2.

Negative ion; Plasma; Resonance; Vacuum ultraviolet; Arc; Hydrogen; 15652. SP305-7.

Negative ion; Resonance; Cross section; Electron; Excitation threshold; Helium; Inelastic scattering; 9630. SP305-1.

Negative ions; Electron affinity; Electrons; Energy analysis; Helium; Laser photodetachment; Monochromatic (laser) light; 10320. SP305-1.

Negative ions; Ion chemistry; Mesospheric electron concentrations; Microscopic chemical reactions; 10388. SP305-1.

Negative ions; Nitric oxide; Nitrous oxide; Total scattering cross section; Electron impact; Electron scattering resonances; Exponential attenuation; Low energy; 14983. SP305-7.

Negative ions; Nitric oxide; Photodetachment; Electron affinity; Molecular constants; 12883. SP305-4.

Negative ions; Nitrogen window; Resonances; Vibrational excitation; Doppler broadening; Electronic excitation; Low energy elastic electron scattering; Low energy inelastic electron scattering; Lyman-Birge-Hopfield bands; Metastable states; 9776. SP305-1.

Negative ions; Photodetachment; Absolute cross section; Iodine; 11137. SP305-2.

Negative ions; Photo-detachment; Recombination; D region; Ionosphere; 9252. SP305.

Negative ions; Photodetachment; SH; Electron affinity; Free radical; 11138. SP305-2.

Negative ions; Photodetachment; Single-quantum; Double-quantum; Elastic scattering; 10231. SP305-1.

Negative ions; Photodetachment; Tunable dye laser; Intracavity technique; Ion cyclotron resonance; Mass spectrometry; 14770. SP305-7.

Negative ions; Photodetachment; Spin-orbit coupling; Tunable dye laser; Ion cyclotron resonance; Mass spectrometry; 14771. SP305-7.

Negative ions; Photodetachment cross section; Photodissociation; CO<sub>2</sub><sup>-</sup>; 13896. SP305-6.

Negative ions; Photoelectron spectroscopy; Polar molecules; Alkali-halide; 15791. SP305-8.

Negative ions; photodetachment; Electron affinity; Molecular constant; Molecular oxygen; 12882. SP305-4.

Negative losses; Dielectric losses; Dielectric materials; Dielectric measurements; Errors; Low-loss; Negative impedances; 9773. SP305-1.

Negative oxygen ion; Cross-charged beams; Electron collisions; Hydrogen negative ion; Ionization cross section; 10715. SP305-1.

Negative resistivity; Photoconductivity; Strontium titanate; Electric field quenching; Luminescence; 9753. SP305-1.

Negative surface ionization; Desorption kinetics; Halogen surface lifetimes; Molybdenum; 12825. SP305-4.

Negatives; Paper; Photographs; Preservation of records; Prints; Records; Repair of records; Storage of records; Slides; Films; C155. SP305-4.

Negotiations; Research, structured planning discourse; User needs, aspirations, values; Arguments; Decision-making; IBIS (Issue Based Information System); SP361, Vol. 1, pp. 93-100. SP305-4.

N-eicosane; Single crystal; Unit cell; Growth technique; 11875. SP305-3.

NEISS; Plastics flammability; Product safety; Accident data; Data systems; Fabric flammability; FFACTS; Fire accidents; Fire data systems; Fire hazards; Fires; Hazard analysis; 16361. SP305-8.

Nematic crystals; Smectic crystals; Cholesteric crystals; Faulted ribbon; Liquid crystals; SP317, pp. 607-636. SP305-3.

Nematic liquid; Chromatography; Gas chromatography; Gas liquid; 11715. SP305-2.

Neodymium magnesium nitrate; Superlattice; Antiferromagnetism; Cerium magnesium nitrate; Digital representation; Dipole-dipole interaction; Ground state; Luttinger-Tisza method; 13272. SP305-5.

Neodymium; Praseodymium; Promethium; Samarium; Terbium; Thulium; Ytterbium; Cerium; Dysprosium; Erbium; Europium; Gadolinium; Hafnium; Holmium; Ionization energy; Lanthanum; Lutetium; 13703. SP305-5.

Neodymium; Rare earths; Semiconductors; Barium titanate; Barium titanyl oxalate; 11661. SP305-2.

Neodymium; Ruby; Calorimeter; Energy; Laser; 13613. SP305-5.

Neodymium; Ruby; Far-field diffraction; Laser; Near-field diffraction; 11571. SP305-2.

Neodymium; Ruby; Laser; Near-field and far-field diffraction; 11939. SP305-3.

Neodymium compounds; Praseodymium compounds; Promethium compounds; Rare-earth elements; Samarium compounds; Terbium compounds; Thulium compounds; Ytterbium compounds; Cerium compounds; Dysprosium compounds; Enthalpy; Entropy; Erbium compounds; TN270-7. SP305-5.

Neodymium ethyl sulphate; Shape dependent; Specific heat; Cerous magnesium nitrate; Cesium titanium alum; Dipole-dipole interaction; 11909. SP305-3.

Neodymium ethylsulfate; Relaxation time; Spin saturation; Electron static susceptibility; Lattice-bath; 9291. SP305.

Neodymium glass; Optical properties; Opto-elastic properties; Oxides; Ruby; Rutile; Titanium; Titanium dioxide; Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical properties; Chemical analysis; Chromium ions; Corundum; TN565. SP305-3.

Neodymium glass laser; Beam uniformity; Glass damage; Laser induced sputtering; 12811. SP305-4.

Neon; Argon; Atomic lifetimes; Atomic spectra; Helium; Laser; 11022. SP305-2.

Neon; Atomic lifetimes; Atomic spectra; Atomic transition probabilities; Laser; 11354. SP305-2.

Neon; Atomic lifetimes; Atomic spectra; Atomic transition probabilities; Laser; 11591. SP305-2.

Neon; Correlation for deviations from geometric mean combining rule; Ethane; Ethylene; Equilibrium gas-phase compositions; Helium; Helium-ethane system; Helium-ethylene system; Liquid-vapor equilibrium; Low-temperature phase equilibrium; 11327. SP305-2.

Neon; Isotope shift; Saturated absorption; Wavelength standard; Laser; 11118. SP305-2.

Neon; Krypton; Xenon; Transport coefficients; Correlations; M; 6; Kihara; Exp. 6; Morse; Potential functions; Dilute gases TN352. SP305.

Neon; Laser; Lifetime; Line profile; 10262. SP305-1.

Neon; Laser; Line profile; 10366. SP305-1.

Neon; Laser; Line profile; 10367. SP305-1.

Neon; Neon isotopes; Neon point; Triple point; Vapor pressure <sup>20</sup>Ne; <sup>22</sup>Ne; Boiling point; 12597. SP305-4.

Neon; Neon-methane binary system; Solid-vapor equilibrium; Low-temperature phase-equilibrium; Methane; Minimum gas phase equilibrium concentration; 9461. SP305.

Neon; Neutron diffraction; Ornstein-Zernike; Critical exponent  $\eta$ ; Critical point; Critical scattering; 14584. SP305-6.

Neon; Oxygen; Orthobaric densities; Parahydrogen; Saturated liquid and vapor densities; Coexistence; Coexistence temperatures; Critical constants; Critical density; Critical temperatures; Fluorine; J.74A No. 2, 221-227 (1970). SP305-2.

Neon; Percus-Yevick equation; Configuration entropy; Correlation function; Entropy; Hard sphere; Liquid state; 1237. SP305-3.

Neon; Phase-equilibria; Krypton; Melting line; 13232. SP305-5.

Neon; Photoionization; Standing waves; 2p shell; Close coupling; Core relaxation; Multi-channel; 9781. SP305-1.

Neon; Rates; Reaction; Ion; Mobilities; 10622. SP305-1.



- Neon; Spectra; Ultraviolet; Wavelengths; 12606. SP305-4.
- Neon; Spectra, atomic; Delayed coincidence; Lifetimes, atomic; 9849. SP305-1.
- Neon; Spectrum; Transition probabilities; 11867. SP305-3.
- Neon; Triple point; Boiling point; 11624. SP305-2.
- Neon; Vapor pressure; Fixed point;  $^{20}\text{Ne}$ ;  $^{20}\text{Ne}$ ;  $^{22}\text{Ne}$ ; 13601. SP305-5.
- Neon; Wavelength standards; Hollow cathode; Iron; J.79A No. 1, 17-69 (1975). SP305-7.
- Neon; Wavelengths; Wavelength standards; Wave numbers; Xenon; Argon; Extraphotographic region; Infrared emission spectra; Intensities; J. Phys. Chem. Ref. Data 2, No. 3, 519-530 (1973). SP305-6.
- Neon; Zeolite; Adsorption potential; Charcoal; Helium; High-pressure physical adsorption; Hydrogen; Low temperature; 9840. SP305-1.
- Neon isotopes; Neon point; Triple point; Vapor pressure;  $^{20}\text{Ne}$ ;  $^{22}\text{Ne}$ ; Boiling point; Neon; Neon isotopes; 12597. SP305-4.
- Neon K emission spectrum; X-ray emission; X-ray satellites; Electron excitation; 12286. SP305-3.
- Neon laser's millimeter wave difference frequency; Optical heterodyne measurement; Frequency-millimeter wave difference; Heterodyne measurement; Millimeter wave difference frequency; 9764. SP305-1.
- Neon NBP; Acoustical thermometry; E-H<sub>2</sub> NBP-e-H<sub>2</sub> TP fixed points; 13575. SP305-5.
- Neon point; Triple point; Vapor pressure;  $^{20}\text{Ne}$ ;  $^{22}\text{Ne}$ ; Boiling point; Neon; Neon isotopes; 12597. SP305-4.
- Neon resonance radiation; Absorption coefficient; Helium resonance radiation; Hydrocarbons; Inorganic molecules; Ionization efficiency; Ionization quantum yield; J.75A No. 5, 481-485 (1971). SP305-3.
- Neonatal hyperbilirubinemia; Phototherapy; Bilirubin; Brain damage; Hyperbilirubinemia; 16366. SP305-8.
- Neon-methane binary system; Solid-vapor equilibrium; Low-temperature phase-equilibrium; Methane; Minimum gas phase equilibrium concentration; Neon; 9461. SP305.
- Neopentane; Neutralization; Pulse radiolysis; Electron scavengers; Gas phase; Ion-molecule reactions; J.76A No. 4, 329-336 (1972). SP305-4.
- Neopentane; Neutralization; Radiolysis; Unimolecular fragmentation; Ion-molecule reactions; 12141. SP305-3.
- Neopentane; Neutron scattering; Plastic crystal; Quasielastic; Activation energy; Cold neutron; Correlation time; Diffusion constant; Molecular reorientation; 11547. SP305-2.
- Neopentane; Phase transition; Plastic crystal; Raman; And rotational diffusion; Band shape analysis; Diffusion models; Infrared; Jump diffusion; Molecular reorientation; 13773. SP305-5.
- Neopentane; Photoionization; Proton affinity; Rate constants; Ion molecule reactions; Mass spectrometry; J.75A No. 5, 487-493 (1971). SP305-3.
- Neopentane; Photolysis; Radiolysis; Free radicals; Ion-molecule reactions; 9180. SP305.
- Neopentane; Primary photochemical processes; Quantum yields; Vacuum ultraviolet photolysis; Free radical scavenging; Hydrocarbons; Isobutane; 14996. SP305-7.
- Neopentane; Proton transfer; Radiolysis; Free radical reactions; G-values; Ion-molecule reactions; 14890. SP305-7.
- Neopentane; Pyrolysis; Shock tubes; *t*-butyl radicals; 2,2,3-trimethylbutane; Bond energies; Decomposition; Hexamethylethane; Isopropyl radical; Methyl radicals; 10106. SP305-1.
- Neopentane; Radiolysis; Rate constants; *t*-butyl ion; Carbonium ions; Ion-molecule reactions; 11854. SP305-3.
- Neoplasms; TAST; Thermal effects; Tissue; Tumor; Ultrasonic; Velocity; Absorption; Attenuation; Brain; SP453, pp. 153-163 (Oct. 1976). SP305-8.
- Neoprene; Performance criteria; Performance evaluation; Performance testing; Reinforced concrete; Standard tests; Structure, testing; Building; Connections; Housing; TN706. SP305-4.
- Neoprene; Physical constants; Polymers; Properties; Rubbers; Styrene-butadiene rubber; Butyl rubber; Constants; Natural rubber; 10136. SP305-1.
- Neoprene; Physical constants; Polymers; Properties; Rubbers; Styrene-butadiene rubbers; Butyl rubber; Constants; Natural rubber; 14858. SP305-7.
- Neoprene; Rubber; Tensile strength; Ultimate strength; Glassy state; Low temperature; Mechanical property; Modulus; 10777. SP305-1.
- Neoprene; Smoke; Transportation; Urethane; Flame spread; Flammability; Full-scale fire tests; Laboratory fire tests; Motorail cars; NBS/R 75-971. SP305-8.
- Neoprene bearing pad; Operation BREAKTHROUGH; Performance tests; Precast concrete; Structural design; Building system; Column connection; Concrete triaxial strength; Ductility; 13401. SP305-5.
- Neoprene bearing pad; Operation Breakthrough; Performance test; Precast concrete; Structural design; Building system; Column connection; Concrete triaxial strength; Ductility; TN811. SP305-6.
- Neper; Radian; Angle; Dimension; Logarithm; J.79B Nos. 3 and 4, 127-135 (1975). SP305-7.
- Neptunium; Nobelium; Plutonium; Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; 13594. SP305-5.
- Neptunium; Nobelium; Plutonium; Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; 14257. SP305-6.
- Neptunium-237; Neutron reactions; Pile neutrons; Plutonium-239; Uranium-234; Uranium-235; Uranium-238; Cross sections; Fission; 15020. SP305-7.
- Neptunium-237; Partial wave branching; Uranium-233; Alpha particles; Americium-243; Angular correlations; 9799. SP305-1.
- Neptunium-239; Alpha-particle; Americium-243; Excited states; Gamma-ray; Half-life; 10996. SP305-2.
- Nerve axons; Surgical procedure; Histological evaluation; SP415, pp. 99-101. SP305-7.
- Nerve prosthesis; Synthetic implants; Thromboresistance; Biocompatibility; Biomaterials; Blood protein; Ceramic implants; Implantable electrodes; Metallic implants; SP415. SP305-7.
- Nested; Patterns; Planar; Proximity; Rhombic; Spacing; Antenna; Comparison; Co-planar; Gain; Interactions; Mutuals; 11467. SP305-2.
- Net; Topological space; Convergence; Filter; Function space; Limit space; Linear topological space; 13762. SP305-5.
- Net positive suction head; Pump efficiency; Pump performance; Cavitation; Cryogenic motors; Induction motors; Liquid helium pumps; Motor efficiency; NBS/R 75-816. SP305-7.
- Net quantity; Principal display panel; Regulations; Weights and measures; Consumer package; Exemption; Fluid measure; Labeling; H108. SP305-3.
- Net reproduction rate; Oscillations; Perron-Frobenius theory; Rate of natural increase; Stable population; Eigenvalue; J.78B No. 2, 73-78 (1974). SP305-6.
- Net weight; Package control; Petroleum products; Scales; Survey; Temperature compensation; Uniformity; Weights and measures; Digital indicators; Drained weight; Laws and regulations; Metrication; Metric conversion; SP407. SP305-7.
- Network; Computer network; Management; 15547. SP305-7.
- Network; Network algorithms; Shortest path; Double-sweep method; Graph; *k* shortest paths; J.78B No. 3, 139-165 (1974). SP305-6.

Network; Network display; Plotting algorithm; Plotting program; Communication network; Multicommodity network; *TN829*. **SP305-6.**

Network; Network optimization; Optimal sorting; Sorting networks; Decision networks; Minimum delay programs; *13193*. **SP305-5.**

Network; Nonreciprocal; Scattering parameters; Two-port; Measurement; Microwave; *10815*. **SP305-1.**

Network; Optimization; Shortest-path; Transportation; Algorithm; Graph; *10552*. **SP305-1.**

Network; Performance; Communications; Computer; Evaluation; Measurement; *15693*. **SP305-7.**

Network; Performance; Computer; Consumer; Contract; Evaluation; *15642*. **SP305-7.**

Network access machine; Network measurement machine; Network user; Resource sharing; User services; Computer network; *14274*. **SP305-6.**

Network access procedures; Networking; Standardization; User protocols; *TN799*. **SP305-5.**

Network algorithms; Shortest path; Double-sweep method; Graph; *k* shortest paths; Network; *J78B No. 3*, 139-165 (1974). **SP305-6.**

Network analyzer; Adapter; Automation; Efficiency; Microwave; Microwave measurement; *14826*. **SP305-7.**

Network analyzer; Noise; Pulse generator; Pulse measurement; Sampling oscilloscope; Scattering parameters; Spectral analysis; Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Jitter; Microwave measurement; Mismatch; *TN672*. **SP305-7.**

Network analyzer; Pulse; S parameters; Time domain; Attenuation; Automated measurement; *15661*. **SP305-7.**

Network configuration; Optimization; Telpak rate structure; Communications network; Computer program; Heuristic; Minimum cost; *TN787*. **SP305-5.**

Network configuration; Remote job entry; Resource sharing; Computer networks; Computer-to-computer transfers; Interactive terminals; Minicomputer-based systems; *TN804*. **SP305-6.**

Network display; Plotting algorithm; Plotting program; Communication network; Multicommodity network; Network; *TN829*. **SP305-6.**

Network flows; Independence properties; Matroids; Maximal flows; *J79B Nos. 1 and 2*, 59-62 (1975). **SP305-7.**

Network flows; Mathematics; Segs; Basic cut-sets; Cut-sets; Graph theory; *J71B4-242*, 183-186 (1967). **SP305.**

Network flows; Optimal container routing; Optimal routing; Routing in a network; Containers; Inventory; *13282*. **SP305-5.**

Network flows; Single commodity; Transportation; Transportation problem; Linear programming; *14790*. **SP305-7.**

Network management; Computer networks; National Science Computer Network; *15448*. **SP305-7.**

Network management; Regional networks; Research computing; Academic computing; Networks; *TN795*. **SP305-5.**

Network measurement machine; Network user; Resource sharing; User services; Computer network; Network access machine; *14274*. **SP305-6.**

Network, network management; Computer network; Management; *TN805*. **SP305-6.**

Network optimization; Optimal sorting; Sorting networks; Decision networks; Minimum delay programs; Network; *13193*. **SP305-5.**

Network optimization; Satellite; Service improvement; Communication; Cost-benefit; Deployment; Electronic transmission; Facility location; Mail; Mathematical programming; Message network synthesis; *NBSIR 75-737*. **SP305-7.**

Network parameters; Automatic measurements; Automatic network analyzer; Complex reflection coefficients; Complex transmission coefficients; Computer controlled measurement systems; Computer-operated transmission measurements; Envelope delay; Group delay; *14089*. **SP305-6.**

Network parameters; Reflection coefficient; Scattering coefficients; Transmission coefficient; Waveguide standards; 2-port standards; Automatic measurement; Coaxial standards; *14739*. **SP305-7.**

Network path delay; Stability; Time and frequency dissemination; Time code generator; Time code receiver; Frequency standard; *13064*. **SP305-5.**

Network path delay; Stability; Time and frequency dissemination; Time code generator; Time code receiver; Frequency standard; *13070*. **SP305-5.**

Network security; Security; Communications; Computer security; Cryptography; Data security; Encryption; *15657*. **SP305-7.**

Network simplification; Single commodity flows; Wye-delta network reductions; Capacitated vertices; Delta-wye network reductions; Flows in networks; Graph theory; Mathematics; *10656*. **SP305-1.**

Network theory; Optimal location; Facility location; *13958*. **SP305-6.**

Network transfer function; Time domain waveform; Transfer function; Discrete Fourier transform; Fast Fourier transform; Frequency spectra, discrete; *13417*. **SP305-5.**

Network user; Resource sharing; User services; Computer network; Network access machine; Network measurement machine; *14274*. **SP305-6.**

Networking; Standardization; User protocols; Network access procedures; *TN799*. **SP305-5.**

Networking; Systematic testing; Testing tools; Dynamic analysis; NBS analyzer; NBS FORTRAN test routines; *TN874*. **SP305-7.**

Networking technology; Value-added networks; Computer networks; Computer terminals; *15621*. **SP305-7.**

Network-originated programs; NBS traceability; Phase comparison; Television; Crystal oscillator; Frequency calibration *15682*. **SP305-7.**

Networks; Computer networks; *15485*. **SP305-7.**

Networks; Network management; Regional networks; Research computing; Academic computing; *TN795*. **SP305-5.**

Networks; On-line support; User needs; User support; Computers; Consultation; Documentation; Information support *TN802*. **SP305-5.**

Networks; On-line systems; Programming; Simulation; Storage; Data recording; Debugging; Holography; Information control; Input-output; Integrated circuits; Lasers; Memory systems; Multiprocessing; *Monogr. 113, Volume 3*. **SP305-2.**

Networks; Operations research; Optimization; Algorithms; Combinatorics; Mathematics; Matroids; *9314*. **SP305.**

Networks; Optimal locations; Concave functions; *14791*. **SP305-7.**

Networks; Paths; Shortest-paths; Trees; Algorithms; *TN77*. **SP305-5.**

Networks; Performance; Petri Nets; Probability; Evaluation; Graphs; Measurement; *SP406*, pp. 127-130. **SP305-7.**

Networks; Performance; Queues; Analytical models; Evaluation; Measurement; *SP406*, pp. 119-121. **SP305-7.**

Networks; Performance requirements; Telecommunication; Computer communications; Computer networking; Data communications; *TN882*. **SP305-7.**

Networks; Protocol; Standards; Computer graphics; Computer networks; Graphics; *15071*. **SP305-7.**

Networks; Standards; Microcomputers; Minicomputers; *15641*. **SP305-7.**

Networks; System commands; User protocols; Command languages; Computers; Man-machine systems; *TN877*. **SP305-7.**

Networks; System commands; User protocols; Command languages; Computer; Man-machine systems; *NBSIR 75-74*. **SP305-7.**

Network-simulation; Railroad freight transportation systems; Transportation systems; Computer simulation model; 10150. SP305-1.

Neumann series; Thermoviscoelasticity; Cylinder; J.73B No. 1, 31-40 (1969). SP305-1.

Neurorrhaphic procedures; Peripheral nerve repair; Tubular prosthesis; SP415, pp. 91-98. SP305-7.

Neutral; Perception; Vision; Achromatic; Appearance; Brightness; Chromatic adaptation; Chromaticity; Color; Least squares; Luminance; Model; 11813. SP305-3.

Neutral; Rare earths; Series; Calculation; Ionization; 9384. SP305.

Neutral argon; Transition probabilities; Wall-stabilized arc; Atomic; Infrared lines; 11479. SP305-2.

Neutral atom; Promethium; Rare earth; Atomic spectroscopy; Electronic energy levels; J.71A6-475, 587-599 (1967). SP305.

Neutral buoyancy; Simulation; Space; Diving; Hyperbaric; SP336, pp. 651-659. SP305-3.

Neutral buoyancy; Space simulation; Cryogenics; Liquid air; Liquid nitrogen; Liquid oxygen; SP336, pp. 623-649. SP305-3.

Neutral cerium; Zeeman effect; Atomic energy levels; Atomic spectra; Electron configurations; 14408. SP305-6.

Neutral excited molecules; Radiolysis; Free radicals; Hydrocarbon; Ion molecule reactions; 10306. SP305-1.

Neutral products; Photoionization of hydrocarbons; Radiolysis and photoionization of hydrocarbons; Analysis of neutral products; Ion-molecule reactions; 9545. SP305-1.

Neutralization; Oxygen; Tungsten; 110 tungsten; Chemisorption; Desorption; Electron impact; Molecular vibration; 11376. SP305-2.

Neutralization; Pulse radiolysis; Carbonium ions; Hydrocarbons; Ion-molecule reactions; 13175. SP305-5.

Neutralization; Pulse radiolysis; Electron scavengers; Gas phase; Ion-molecule reactions; Methane; J.77A No. 2, 249-257 (1973). SP305-5.

Neutralization; Pulse radiolysis; Electron scavengers; Gas phase; Ion-molecule reactions; Neopentane; J.76A No. 4, 329-336 (1972). SP305-4.

Neutralization; Radiolysis; Unimolecular fragmentation; Ion-molecule reactions; Neopentane; 12141. SP305-3.

Neutralization mechanisms; Pulse radiolysis; Charge recombination rate constants; Cobalt gamma radiolysis; Hydrocarbons; Ion-molecule reaction; 15627. SP305-7.

Neutrino;  $SU(2)_L \times SU(2)_R$ ; Trident production; Weak interaction; Lepton;  $m$ -spin; 13127. SP305-5.

Neutrino; Weak interaction; Beta decay; Carbon; Electromagnetic; Form factor; Muon; 13125. SP305-5.

Neutrino quarks; Strong interactions; Three triplet model; Composite model of leptons; Electron number; Lepton quarks; Larks; Muon-electron universality; Muon number; 15614. SP305-7.

Neutrino-nucleus interactions; Shadowing effects; Diffractive production; Diffractive scattering; Glauber model; Hadronic components of photons; High energy scattering; Multiple scattering; Monogr. 139. SP305-7.

Neutron; Benchmark; Cross sections; Helium; SP425, pp. 375-377. SP305-7.

Neutron; Carbon; Deuteron; Interaction neutrino; 13736. SP305-5.

Neutron; Charge distribution; Coulomb energy; Deuteron; Electrostatic; Interaction potential; 15469. SP305-7.

Neutron; Data; Flux; LFMBR; SP425, pp. 39-44. SP305-7.

Neutron; Neutron age;  $^{252}\text{Cf}$ ; Age; Fission spectrum; 14470. SP305-6.

Neutron; (neutron) flux; (neutron) moderation; (neutron) spectra; Neutron temperature; (neutron) thermalization; Transport (effects); Cold neutrons;  $\text{D}_2\text{O}(\text{ice})$ ; leakage spectra; 10042. SP305-1.

Neutron; Neutron self-shielding; Precision; Similar gamma-ray energy; Standard Reference Materials; Trace; Accuracy; Activation; Analysis; Decay curve resolution; Gamma-ray attenuation; Geometrical location; 10078. SP305-1.

Neutron; Neutron standards; Manganous sulfate bath calibration of neutron sources; TN576. SP305-3.

Neutron; Neutron-proton scattering; Structure; Time-of-flight; Cross section; Hydrogen; 11448. SP305-2.

Neutron; Non-destructive; Reference; Tissue; Trace; Variance; Activation; Analysis; Biological; Blood; Bone; Botanical; Destructive; Homogeneity; Leaves; Liver; 10790. SP305-1.

Neutron;  $n$ -p; Scattering; Time-of-flight; Cross section; Hydrogen; 12478. SP305-4.

Neutron; Nuclear cross-sections; Nucleus; Optical model scattering; Calculations; Cross-section; 9747. SP305-1.

Neutron; Nuclear reactions; Compilation; Cross section; Evaluation; 9980. SP305-1.

Neutron; Nuclear reactions; Photons; Radiation detectors; Radiochemical separation; Activation analysis; Applications; Archaeology; Biology; Charged particles; Computation; Conference; Criminology; Data handling; Geochemistry; SP312, Volumes I and II. SP305-1.

Neutron; Nuclear reactor; Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; TN758. SP305-5.

Neutron; Nuclear reactor; Radiation; Crystal structure; Diffraction; Isotope, molecular structure; TN714. SP305-4.

Neutron; Nuclear reactor; Radiation; Scattering; Crystal structure; Diffraction; Molecular structure; TN567. SP305-3.

Neutron; Nuclear reactor; Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; TN813. SP305-6.

Neutron; Nuclear reactor; Radiation; Radiography; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; TN860. SP305-7.

Neutron; Nuclear-data; Spectra; Standard; Theory; Comparison; Fast; Integral-measurements; 13343. SP305-5.

Neutron; Photoelectron; Photomultiplier; Resolution; Suppression; After-pulse; GaP first dynode; 14843. SP305-7.

Neutron; Photomultiplier; Pulse; Time-of-flight; After-pulse; Gamma flash; 12741. SP305-4.

Neutron; Photoneutron; Response; Yields; Detector; Efficiency; Four-pi; Halpern; TN416. SP305.

Neutron; Properties; Reaction; Scattering; Structure; Transport; Diffraction; Inelastic; Interaction; Materials; 10553. SP305-1.

Neutron; Proportional; Counter; Flux; Hydrogen; Monitor; SP425, pp. 78-80. SP305-7.

Neutron; Reactor; Resonance; Thermalization; Absorption; 9746. SP305-1.

Neutron; Reactor;  $^{239}\text{Pu}$ ; Alpha-particle; Emission; Fission; 13458. SP305-5.

Neutron; Reactor spectrum; Scattering; Slowing down density; Cross sections; Epithermal energy; Group averaging; 10511. SP305-1.

Neutron; Resonance; Capture; Chromium; Cross section; Evaluation; SP425, pp. 367-370. SP305-7.

Neutron; Resonance; Sodium-22; Thermal; Westcott; Cross section; SP425, pp. 792-794. SP305-7.

Neutron; Resonance parameters; Total cross section;  $^{241}\text{Am}$ ; SP425, pp. 637-641. SP305-7.

Neutron; Resonances; Slowing down; Doppler broadening; 10481. SP305-1.

Neutron; Rigid-molecule; Scattering; Selection-rules; Group theory; Inelastic; 13151. SP305-5.

Neutron; Scattering; Cross section; Differential; Elastic; Inelastic; SP425, pp. 883-885. SP305-7.

Neutron; Scattering; Solid; Alloy; CuNi; Incoherent; Liquid; 11598. SP305-2.

Neutron; Sodium; Water; Benchmark; Cross sections; Graphite; SP425, pp. 177-183. SP305-7.

- Neutron; Spectrum; Alpha particles; Cross section; Helium; Nickel; *SP425*, pp. 810-812. **SP305-7.**
- Neutron; Techniques; Application; Charged particle; Cross section; Emission; *SP425*, pp. 156-160. **SP305-7.**
- Neutron; Time-of-flight; Associated-particle; Cross-section; Monte Carlo; Multiple scattering; *TN499*. **SP305-1.**
- Neutron; Time-of-flight; Cross section; MeV; *12477*. **SP305-4.**
- Neutron; Transport calculations; Cross section sensitivity; Gamma ray; *SP425*, pp. 431-435. **SP305-7.**
- Neutron absorption; Radioactive decay; Thermal conductivity; Heat conduction; Heat generation; Heat transfer; *J171C4-260*, 293-298 (1967). **SP305.**
- Neutron activation; Cadmium; High yield mass separator; *14160*. **SP305-6.**
- Neutron activation; Improved limits of detection; Iodine-129; Isotopic separation; *15456*. **SP305-7.**
- Neutron activation; Preservation of historical objects; Wear; Monumental brasses; *13847*. **SP305-6.**
- Neutron activation; Probe loading; Probe spacing; Spreading resistance; Bevel angle measurement; Correction factor; Epitaxial layer; Impurity concentration; Ion-implanted layer; *SP400-10*, pp. 169-178. **SP305-6.**
- Neutron activation; Radiochemical separation; Solvent extraction; Tribenzylamine; Analysis; Biological materials; Chloroform; Chromium; Environmental materials; *15409*. **SP305-7.**
- Neutron activation; Trace analysis; Trace characterization; Activation analysis; *12766*. **SP305-4.**
- Neutron activation analysis; Nitrogen; Nuclear track technique; Orchard leaves; Steels; Track etch method; Uranium; Boron; Glasses; Image analyzing system; Liver; Microscopy; *12688*. **SP305-4.**
- Neutron activation analysis; Nitrogen; Orchard leaves; Proton tracks; Standard reference materials; Bovine liver, cellulose nitrate; Image analyzing system; Microscope; *14705*. **SP305-6.**
- Neutron activation analysis; Nondestructive analysis; Photon activation analysis; Archaeological materials; Bronze; *12742*. **SP305-4.**
- Neutron activation analysis; Nuclear track technique; Uranium; Boron; Fission track counting; Glass; *12573*. **SP305-4.**
- Neutron activation analysis; Preconcentration; Radioactive tracers; River water; Trace elements; Tracers; Water; Freeze drying; Instrumental neutron activation analysis; Lyophilization; *15376*. **SP305-7.**
- Neutron activation analysis; Radiochemical separations; Spontaneous deposition; Trace analysis; Glasses; *12931*. **SP305-4.**
- Neutron activation analysis; Rapid radiochemical separation; Solvent extraction; Trace analysis; Uranium; Biological materials; *12817*. **SP305-4.**
- Neutron activation analysis; Rare earths; Reversed-phase chromatography; Di(2-ethylhexyl) orthophosphoric acid, Corvic; NBS Standard Reference Material 480; *14110*. **SP305-6.**
- Neutron activation analysis; Sample pressure; Thermal neutron flux; Threshold foil; Cadmium ratio; Fast neutron flux; *14083*. **SP305-6.**
- Neutron activation analysis; Selenium; Standard; Biological; *12734*. **SP305-4.**
- Neutron activation analysis; Tellurium; Uranium; Environmental samples; *15385*. **SP305-7.**
- Neutron activation analysis; X-ray fluorescence spectrometry; Standard Reference Material; Analytical standard; Atomic absorption spectrometry; Differential cathode ray polarography; Electrodeposition; Lead-based paint; *SP260-45*. **SP305-5.**
- Neutron activation analysis (NAA); Nondestructive; Reagent blanks; Trace element analysis; Biological samples; Biological standards; Chemical separations; Environmental samples; *13687*. **SP305-5.**
- Neutron age;  $^{232}\text{Cf}$ ; Age; Fission spectrum; Neutron; *14470*. **SP305-6.**
- Neutron and gamma-ray attenuation; Oxygen; Removal cross section; Systematic errors; 14-MeV activation analysis; Correction factors; *10589*. **SP305-1.**
- Neutron and gamma-ray attenuation; Photopeak analysis; Removal cross section; Systematic errors; 14-MeV activation analysis; Annihilation radiation; Correction factors; *11648*. **SP305-2.**
- Neutron attenuation; Systematic error analysis; Trace oxygen; 14-MeV neutron activation analysis; Blank; Cockcroft-Walton neutron generator; "flow through" container; Gamma-attenuation; Geometrical correction; *11409*. **SP305-2.**
- Neutron attenuation; Time of flight; Ilmenite concrete; Monte Carlo; *SP425*, pp. 409-414. **SP305-7.**
- Neutron capture; Nonelastic scattering; Cosmic-ray reactions; Lunar chemistry; Lunar  $\gamma$ -rays; *SP425*, pp. 540-545. **SP305-7.**
- Neutron capture cross section; Pulse-height weighting; Time-of-flight method;  $^{89}\text{Nb}$ , Ag,  $^{127}\text{I}$ ,  $^{165}\text{Ho}$ ,  $^{197}\text{Au}$  and  $^{238}\text{U}$ ;  $\text{C}_6\text{F}_6$  detector; Fe-filtered beam; *SP425*, pp. 802-805. **SP305-7.**
- Neutron capture cross sections; Pu isotopes,  $^{241}\text{Am}$ ; Actinide management; *SP425*, pp. 229-231. **SP305-7.**
- Neutron capture gamma-rays;  $^6\text{Li}$  filter;  $^{154}\text{Gd}(n,\gamma)$ ;  $^{156}\text{Gd}(n,\gamma)$ ; Iron filter;  $\text{Mn}(n,\gamma)$ ; *SP425*, pp. 912-915. **SP305-7.**
- Neutron capture  $\gamma$ -rays; Width correlations;  $E_n = 24.3$  keV; *SP425*, pp. 926-928. **SP305-7.**
- Neutron converters; Neutron radiography; Neutron scintillator; Thermal neutron detection; X-radiographic paper; Image quality; *15549*. **SP305-7.**
- Neutron cross section; Critical magnetic scattering; Diffusivity; Heisenberg magnets; *10835*. **SP305-1.**
- Neutron cross section; Nuclear orientation; Deformed nucleus;  $^{165}\text{Ho}$ ; *9930*. **SP305-1.**
- Neutron cross section; Standard;  $^{10}\text{B}$ ;  $^6\text{Li}$ ; *SP425*, pp. 232-235. **SP305-7.**
- Neutron cross section; Time-of-flight; 1-240 eV; Gross fission products; *SP425*, pp. 744-747. **SP305-7.**
- Neutron cross sections; Neutron measurement standards; Neutron radiation fields; Neutron sources; Standard reference materials; *10661*. **SP305-1.**
- Neutron cross sections; Neutron time-of-flight spectroscopy; Angular distributions; Differential cross sections; *SP425*, pp. 938-941. **SP305-7.**
- Neutron cross sections; New results; New techniques; Review; *SP425*, pp. 119-128. **SP305-7.**
- Neutron cross sections; Photoneutron sources; Surface barrier detectors;  $^6\text{Li}(n,\alpha)$ ; Absolute cross section measurements; Manganese bath; *SP425*, pp. 236-239. **SP305-7.**
- Neutron cross-sections; Neutron data evaluation; U-233, U-235, Pu-239, Pu-241; Westcott g-factors; Cf-252 spontaneous fission neutron yield;  $E = 0.0253$  eV and 20 °C Maxwellian; Fission-neutron yields; *SP425*, pp. 286-292. **SP305-7.**
- Neutron cross-sections; Neutron spectra; Phase transition; Ferroelectrics;  $\text{H}_2\text{O}$ ; Ice; Inelastic scattering;  $\text{K}_2\text{Fe}(\text{CN})_6 \cdot 3\text{H}_2\text{O}$ ; Libraries; Low-frequency modes; *9504*. **SP305.**
- Neutron damage dislocations; Sapphire; Aluminium oxide; Defects; Electron microscopy; *10825*. **SP305-1.**
- Neutron data evaluation; U-233, U-235, Pu-239, Pu-241; Westcott g-factors; Cf-252 spontaneous fission neutron yield;  $E = 0.0253$  eV and 20 °C Maxwellian; Fission-neutron yield; Half-lives of U-233, U-234, Pu-239; *SP425*, pp. 286-292. **SP305-7.**
- Neutron detection; Radiation-induced cavitation; Thermal neutron detection; Acoustic cavitation; Boron ( $n,\alpha$ ) lithium reaction; Cavitation; *11741*. **SP305-2.**
- Neutron detector; Absolute efficiency determination; Cross section measurements; *SP425*, pp. 108-111. **SP305-7.**



- Neutron detector; Neutron flux monitor; Neutrons; Neutron standards;  $T(p,n)^3\text{He}$  reaction; Associated particle technique; *SP425*, pp. 75-77. **SP305-7.**
- Neutron diffraction; Apophyllite; Fluoro silicate; Hydrated minerals; Hydrogen bonds; Mineral structure; *12418*. **SP305-4.**
- Neutron diffraction; Neutron scattering;  $(\text{NH}_4)\text{SiF}_6$ ; Torsional vibrations; Ammonium ions; Barriers to rotation; Crystal structure; Disorder; Inelastic scattering; *10053*. **SP305-1.**
- Neutron diffraction;  $\text{NH}_4\text{ClO}_4$ ; Thermal motion; Crystal structure; Low temperature; Meta-stable compound; *15223*. **SP305-7.**
- Neutron diffraction; Order-disorder transition; Ammonium sulfate; Deuteron magnetic resonance; Ferroelectricity; *11078*. **SP305-2.**
- Neutron diffraction; Organic compound; RDX; Crystal; Crystal structure; Cyclotrimethylene-trinitramine; Explosives; *13154*. **SP305-5.**
- Neutron diffraction; Orientational disorder; Potassium cyanide; Sodium cyanide; Angular distribution; Crystal structure; Cyanide ion; Debye-Waller factor; *13290*. **SP305-5.**
- Neutron diffraction; Ornstein-Zernike; Critical exponent  $\eta$ ; Critical point; Critical scattering; Neon; *14584*. **SP305-6.**
- Neutron diffraction; Pair correlation function; Radial distribution function; X-ray diffraction; Liquid; Liquid structure factor; *13114*. **SP305-5.**
- Neutron diffraction; Pair correlation function; X-ray diffraction; Density expansion; Liquid structure factor; Liquid theory; *12795*. **SP305-4.**
- Neutron diffraction; Pair correlation function; Triplet correlation function;  $^4\text{He}$ ; Condensate fraction; Ground state wave function; *13943*. **SP305-6.**
- Neutron diffraction; Pair correlation and three-atom correlation function; Structure factor; Condensate fraction; Density and temperature; Liquid helium; *14023*. **SP305-6.**
- Neutron diffraction; Perchlorates; Thermal motion; Torsional oscillation; Constrained refinement; Hindered rotation; Hydrogen bonds; Hydroxylammonium; *14853*. **SP305-7.**
- Neutron diffraction; Percus-Yevick equation; Radial distribution function; Simple liquids; Superposition approximation; Three body correlation function; X-ray diffraction; *12016*. **SP305-3.**
- Neutron diffraction; Phase transition; Reorientation; Sodium hydrosulfide; Crystal structure; Ion orientation; Libration; *2559*. **SP305-4.**
- Neutron diffraction; Phosphate; Water molecule; Hydrate; Hydrogen bonding; Monocalcium phosphate; Monohydrate; *4864*. **SP305-7.**
- Neutron diffraction; Phosphates; Phosphoric acid; Crystal structure; Hydrates; Hydrogen bonding; *14702*. **SP305-6.**
- Neutron diffraction;  $\text{PH}_4\text{Br}$ ; Rigid-body analysis; Thermal motion; Crystal structure; *12119*. **SP305-3.**
- Neutron diffraction; Potassium cyanide; Cyanide ion; Disorder; Ion displacements; Lattice dynamics; Libration; *12671*. **SP305-4.**
- Neutron diffraction; Rare earths; Amorphous materials; Magnetic materials; *15388*. **SP305-7.**
- Neutron diffraction; Recrystallization; Terbium-iron; Amorphous alloys; Amorphous magnetism; Coercive magnetic force; Magnetic structure; *15297*. **SP305-7.**
- Neutron diffraction; Research reactor; Split core; Cold neutron source; High flux; Irradiation; *12351*. **SP305-3.**
- Neutron diffraction; Structure factor; Correlation function; Intra-atomic potential neon; *12524*. **SP305-4.**
- Neutron diffraction; Structure refinement; Thermal motion; Water molecule; Bond angle; Diffraction; Fluoride; Hydrate; Hydrogen bond; *12819*. **SP305-4.**
- Neutron diffraction; Structure refinement; Thermal motion; Crystal structure; Deuterium peroxide; Hydrogen bonds; Hydrogen peroxide; *15271*. **SP305-7.**
- Neutron diffraction; Structure; Dichlorotetrapyrazolecopper; *15578*. **SP305-7.**
- Neutron diffraction; Sulfone; Alkyl sulfone; Crystal structures; Dimethyl sulfone diimine; Hydrogen bonds; *15383*. **SP305-7.**
- Neutron diffraction; Superconductivity; Vanadium alloys; A 15 phases; Atomic ordering; Magnetic structure; *14574*. **SP305-6.**
- Neutron diffraction data; Pair correlation function; Short range behavior; Structure factor; Superfluid transition; Ground state wave function; Liquid  $^4\text{He}$ ; *J.77A No. 6*, 725-731 (1973). **SP305-5.**
- Neutron diffractometer; Real-time data processing; Time sharing; X-ray diffractometer; Automatic control; Computer control; Diffractometer; FORTRAN; *J.74C Nos. 3 and 4*, 89-95 (1970). **SP305-2.**
- Neutron dose measurements; Uranium; Fission tracks; Glass; Mica; Microscopy; *13173*. **SP305-5.**
- Neutron dosimetry; Neutron energy deposition; Fluence; Kerma; Kerma factors; Microdosimetry; *15407*. **SP305-7.**
- Neutron dosimetry; Neutron energy transfer; Nuclear reactions; Energy transfer coefficient; First collision dose; Kerma; *10824*. **SP305-1.**
- Neutron dosimetry; Neutron radiobiology; Neutron therapy; Absorbed dose; Intercomparison; Kerma; *15540*. **SP305-7.**
- Neutron dosimetry; Reactor fuels; Reactor materials; Absolute fission rates; *15239*. **SP305-7.**
- Neutron dosimetry; Secondary particle spectra; Tissue; Energy deposition; *13256*. **SP305-5.**
- Neutron elastic scattering;  $^{115}\text{In}^m$ ; 0.335-14.7 MeV; Excitation curve; *SP425*, pp. 859-861. **SP305-7.**
- Neutron emission rate; Neutron sources; Neutron spectra; Neutron spectrum measurement methods;  $^{254}\text{Cf}$ ; Manganese sulfate bath; *12880*. **SP305-4.**
- Neutron energy deposition; Fluence; Kerma; Kerma factors; Microdosimetry; Neutron dosimetry; *15407*. **SP305-7.**
- Neutron energy transfer; Nuclear reactions; Energy transfer coefficient; First collision dose; Kerma; Neutron dosimetry; *10824*. **SP305-1.**
- Neutron energy 0.8 to 20 MeV; Relative to n-p scattering; U235 fission cross section; Linac source; *SP425*, pp. 615-619. **SP305-7.**
- Neutron experimental equipment; Neutron-neutron scattering; Re-entrant holes; Straight ducts; Collimators; Multiple neutron backscattering; *12812*. **SP305-4.**
- Neutron flux; Neutron irradiation; Plateau annealing; Uranium glasses; U-238 fission decay constant; Fission track dating; *15379*. **SP305-7.**
- (neutron) flux; (neutron) moderation; (neutron) spectra; Neutron temperature; (neutron) thermalization; Transport (effects); Cold neutrons;  $\text{D}_2\text{O}$  (ice); (leakage) spectra; Neutron; *10042*. **SP305-1.**
- Neutron flux; Neutrons; Cross sections; Dosimetry; Evaluation; Fission spectrum; *SP425*, pp. 250-253. **SP305-7.**
- Neutron flux determination; Standard cross sections;  $^3\text{He}(n,p)$ ;  $^6\text{Li}(n,\alpha)$ ;  $^{10}\text{B}(n,\alpha)$ ;  $^{235}\text{U}(n,f)$ ;  $^{237}\text{Np}(n,f)$ ;  $\text{Au}(n,\gamma)$ ;  $\text{C}(n,n)$ ;  $\text{H}(n,n)$ ; *SP425*, pp. 293-301. **SP305-7.**
- Neutron flux determination;  $1 \leq E_n \leq 30$  MeV; Gas scintillation transmission counters; *SP425*, pp. 277-280. **SP305-7.**
- Neutron flux measurements; Photofission; Standard reference materials; Tetracycline; Activation analysis; Ancient stained glass; Carbon; Cockcroft-Walton neutron generator; Coincidence spectrometer; Group separations; Homogeneity testing; *TN508*. **SP305-2.**
- Neutron flux monitor; Neutron standards; Neutrons;  $T(p,n)^3\text{He}$  reaction; Associated particle technique; Neutron detector; *16159*. **SP305-8.**
- Network; Operations research; Algorithm; Graph; Matroid; *J. Res. 80B No. 3*, 337-342 (1976). **SP305-8.**

- Network Access Machine; Network services; Response time; Response time predictions; Computer networks; Minicomputers; 16326. **SP305-8.**
- Network access techniques; Communication; Computer networks; 16063. **SP305-8.**
- Network algorithms; Networks; Shortest paths; Iterative methods; K best paths; Linear equations; 16389. **SP305-8.**
- Network analyzer; Phase; Reflection coefficient; Attenuation; Automated; Bolometer mount efficiency; Measurements; 16509. **SP305-8.**
- Network analyzers; Open circuit reflection coefficient; Short circuit; Standards; Automatic; Broad frequency; Equations; 16510. **SP305-8.**
- Network measurement; Performance measurement; Computer networks; Data acquisition; Man-machine interaction; Minicomputer; *TN912*. **SP305-8.**
- Network protocols; Common practices; Communication; Compatibility; Convertibility; Information interchange; Information networks; Interfacing; Interlibrary communication; Man-machine interaction; 16053. **SP305-8.**
- Network service; Computer networking; Distributed networks; 16045. **SP305-8.**
- Network service; Performance evaluation; Performance measurement; Service; Computer networks; Data analysis; Interactive; *TN897*. **SP305-8.**
- Network services; Response time; Response time predictions; Computer networks; Minicomputers; Network Access Machine; 16326. **SP305-8.**
- Networks; Packet switching; Protocol; Standards; Computer networks; Data communications; Data networks; 16576. **SP305-8.**
- Networks; Packet-switching; Standards; Computer networks; Data communications; 16025. **SP305-8.**
- Networks; Performance requirements; Telecommunications; Computer communications; Computer networking; Data communications; 16551. **SP305-8.**
- Networks; Shortest paths; Iterative methods; K best paths; Linear equations; Network algorithms; 16389. **SP305-8.**
- Networks; Six-port; Circuit parameters; 16575. **SP305-8.**
- Networks; Specifications; Standards; System engineering; Building codes; Computer model; Decision theory; *NBS-GCR-76-55*. **SP305-8.**
- Networks; Specifications; Standards; Systems engineering; Building codes; Computer program; Decision theory; *NBS-GCR-76-56*. **SP305-8.**
- Networks; Specifications; Standards; Systems engineering; Building codes; Computer program; Decision theory; FORTRAN; Logic design; *NBS-GCR-76-57*. **SP305-8.**
- Neutral atom; Review; Shift; Stark broadening; Width; Experimental; *JPCRD 5*, No. 2, 209-258 (1976). **SP305-8.**
- Neutral density filter; Beam splitter; Laser attenuation; *TN677*. **SP305-8.**
- Neutral filters; Standard reference materials; Transmittance characteristics; Ultraviolet-visible filters; Evaporated metal-on-quartz; Filters; Transmittance; *J. Res.* **80A** No. 4, 637-641 (1976). **SP305-8.**
- Neutron; Nuclear reactor; Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; *TN896*. **SP305-8.**
- Neutron; Personnel; Reactor; Dosimetry; Gamma; Intercomparison; *SP456*, pp. 225-232 (Nov. 1976). **SP305-8.**
- Neutron activation analysis; Wet-ashing blank; Biological analysis; Container blank; *SP422*, pp. 593-604 (Aug. 1976). **SP305-8.**
- Neutron activation; Radiochemical separation; Trace elements; Biological material; Biological standards; Data evaluation; Distillation; Food composition; Gamma spectrometry; Inorganic separators; Isotopic exchange; Multielement determination; *SP422*, pp. 1173-1180 (Aug. 1976). **SP305-8.**
- Neutron activation analysis; Contamination; Gas analysis; High purity; Materials analysis; *SP422*, pp. 759-772 (Aug. 1976). **SP305-8.**
- Neutron activation analysis; Cesium and scandium content; Natural and synthetic beryls; *SP422*, pp. 1257-1274 (Aug. 1976). **SP305-8.**
- Neutron activation analysis; Neutron gaging; Neutron radiography; Nondestructive evaluation; Nuclear; Radioactive tracers; 15956. **SP305-8.**
- Neutron activation analysis; Organomercury; Solvent extraction; Environmental matrices; Extraction yields; Mercury; *SP422*, pp. 1233-1240 (Aug. 1976). **SP305-8.**
- Neutron activation analysis; Particulates; Sampling; Species; Trace element concentrations; 15783. **SP305-8.**
- Neutron activation analysis; Plasma emission; Round robin; X-ray fluorescence; Accuracy; Anodic stripping voltammetry; Arc emission spectroscopy; Atomic absorption; Environmental analyses; Interlaboratory tests; *SP422*, pp. 199-210 (Aug. 1976). **SP305-8.**
- Neutron activation analysis; Pollution; Sediment; Trace elements; Water; Wet chemical analysis; Atomic absorption analysis; Californium-252; Mahoning River; *SP422*, pp. 22-230 (Aug. 1976). **SP305-8.**
- Neutron activation analysis; Precision; X-ray fluorescence; Accuracy; Atomic absorption; Environment; *SP422*, pp. 23-245 (Aug. 1976). **SP305-8.**
- Neutron activation analysis; Sample preparation; Standard materials; Trace element analysis; Errors of analysis; Homogenization; *SP422*, pp. 1293-1304 (Aug. 1976). **SP305-8.**
- Neutron activation analysis; Spark source mass spectrometry; Atomic absorption spectrometry; Isotope dilution analysis; Mercury in water, trace analysis; Mercury in water, stabilization of; *SP422*, pp. 267-273 (Aug. 1976). **SP305-8.**
- Neutron activation analysis (NAA); Time of analysis in NAA and AAS; Trace element content in liver biopsies; Trace element content in tumor bearing animals; Wilson's disease; Atomic absorption spectroscopy (AAS); *SP422*, pp. 231-240 (Aug. 1976). **SP305-8.**
- Neutron beams; Neutron filters; Neutrons; Reactors; Resonant scattering; Monoenergetic neutrons; *SP456*, pp. 83-85 (Nov. 1976). **SP305-8.**
- Neutron detector; Neutron flux monitor; Neutron standards; Neutrons;  $T(p,n)^3\text{He}$  reaction; Associated particle technique; 16159. **SP305-8.**
- Neutron diffraction; Amorphous  $\text{Tb}_2\text{Fe}_{1-x}$ ; Curie temperature; Magnetization measurement; 16405. **SP305-8.**
- Neutron diffraction; Rare earth alloys; Amorphous magnetic; Direct current sputtering; Inelastic neutron scattering; Magnetic structures; Magnetism; 16555. **SP305-8.**
- Neutron diffraction;  $\text{RbN}_3$  structure; Thermal motion; Thermal structure; Ionic crystal;  $\text{KN}_3$  structure; Low temperature study; Monovalent metal azides;  $\text{NaN}_3$  structure; 15955. **SP305-8.**
- Neutron dosimetry; International intercomparison; 15954. **SP305-8.**
- Neutron filters; Neutrons; Reactors; Resonant scattering; Monoenergetic neutrons; Neutron beams; *SP456*, pp. 83-85 (Nov. 1976). **SP305-8.**
- Neutron flux depression; Organic liquid sample irradiation; Ladium distribution ratios; Platinum distribution ratios; Chlorine effect; Counting corrections; Gamma intensity attenuation; *SP422*, pp. 1181-1187 (Aug. 1976). **SP305-8.**
- Neutron flux monitor; Neutrons; Neutron standards;  $T(p,n)^3\text{He}$  reaction; Associated particle technique; Neutron detector; *SP425*, pp. 75-77. **SP305-7.**
- Neutron gaging; Neutron radiography; Nondestructive evaluation; Nuclear; Radioactive tracers; Neutron activation analysis; 15956. **SP305-8.**

- Neutron generator activation analysis; Organometallics; Oxygen; Standard reference materials; Steels; 11649. **SP305-2.**
- Neutron inelastic scattering; Phase transition; Rotational diffusion; Rotator phase; N-Alkanes; N-nonadecane; 13488. **SP305-5.**
- Neutron inelastic scattering; Phase transformation; Vanadium hydride; Vibration spectra; Crystal structure; Frequency distribution; Hydrogen positions; Hydrogen vibration; Metal hydride; 10598. **SP305-1.**
- Neutron inelastic scattering; Phonon dispersion relation; Semiconductors; Cadmium telluride; Frequency dispersion; Lattice dynamics; 14375. **SP305-6.**
- Neutron instrumentation; Neutron-neutron scattering; Neutron penetration; Re-entrant holes; Air ducts in shields; Collimators; 13341. **SP305-5.**
- Neutron interaction with tissue; Secondary particle spectra; Energy deposition; Microdosimetry; 13217. **SP305-5.**
- Neutron interactions with tissue; Neutrons; Radiation quality; Secondary particle spectra; Theoretical dosimetry; Energy deposition spectra; Microdosimetry; 16182. **SP305-8.**
- Neutron irradiation; Activation analysis; Californium-252; Manganese activity; 14116. **SP305-6.**
- Neutron irradiation; Paint; Activation analysis; Californium-252; Lead; 14115. **SP305-6.**
- Neutron irradiation; Plateau annealing; Uranium glasses; U-238 fission decay constant; Fission track dating; Neutron flux; 15379. **SP305-7.**
- Neutron irradiation; Recoil; Surface effect; Accuracy; Activation analysis; Charged particle irradiation; Diffusion; Etching; Metals; *SP422*, pp. 1165-1171 (Aug. 1976). **SP305-8.**
- Neutron irradiation damage; Thermal conductivity; Electrical conductivity; Graphite; 12550. **SP305-4.**
- Neutron measurement standards; Neutron radiation fields; Neutron sources; Standard reference materials; Neutron cross sections; 10661. **SP305-1.**
- Neutron moderation; (neutron) spectra; Neutron temperature; (neutron) thermalization; Transport (effects); Cold neutrons; D<sub>2</sub>O (ice); (leakage) spectra; Neutron; (neutron) flux; 10042. **SP305-1.**
- Neutron moisture gauge; Pedology; Soil; Thermal neutron constants; Calibration; *SP425*, pp. 516-519. **SP305-7.**
- Neutron penetration; Nuclear weapons data; Structure shielding; Albedo; Civil defense; Ducts; 11988. **SP305-3.**
- Neutron penetration; Radiation shielding; Effects of nuclear weapons; Fission product gamma rays; Gamma ray penetration; Initial nuclear radiations; 15056. **SP305-7.**
- Neutron penetration; Re-entrant holes; Air ducts in shields; Collimators; Neutron instrumentation; Neutron-neutron scattering; 13341. **SP305-5.**
- Neutron penetration; Secondary gamma rays; Adjoint; Concrete; Gamma-ray penetration; Moments; 15453. **SP305-7.**
- Neutron penetration; Shielding; Weapons radiation; Benchmark problems; Dose distributions; Moments method; *TN745*. **SP305-5.**
- Neutron penetration theory; Polynomial approximations; Biorthogonal functions; Gamma-ray penetration theory; 17184-244, 197-211 (1967). **SP305.**
- Neutron radiation fields; Neutron sources; Standard reference materials; Neutron cross sections; Neutron measurement standards; 10661. **SP305-1.**
- Neutron radiobiology; Neutron therapy; Absorbed dose; Intercomparison; Kerma; Neutron dosimetry; 15540. **SP305-7.**
- Neutron radiography; Neutron scintillator; Thermal neutron detection; X-radiographic paper; Image quality; Neutron converters; 15549. **SP305-7.**
- Neutron radiography; Nondestructive testing; Proton radiography; Real-time techniques; Three-dimensional radiography; X-radiography; Dimensional measurement; Gamma radiography; image enhancement; 15214. **SP305-7.**
- Neutron radiography; Nondestructive tests; Real-time imaging; Thermoluminescence; Track-etch; Films; Images; 15796. **SP305-8.**
- Neutron radiography; Nondestructive evaluation; Nuclear; Radioactive tracers; Neutron activation analysis; Neutron gaging; 15956. **SP305-8.**
- Neutron radiography; Ultrasonics; X rays; Compaction density; Eddy current measurements; Fuel rods; Impregnation density; Monitor tests; *SP336*, p. 405. **SP305-3.**
- Neutron radiography; Ultrasonics; X-radiography; End fitting; Glass-reinforced-plastic rod end fitting; Nondestructive examination; *NBSIR 76-1084*. **SP305-8.**
- Neutron reactions; Pile neutrons; Plutonium-239; Uranium-234; Uranium-235; Uranium-238; Cross sections; Fission; Neptunium-237; 15020. **SP305-7.**
- Neutron reactions; Tantalum; Boron carbides; Capture cross sections; CFRMF reactor; Control materials; Europium oxides; Fast reactors; *SP425*, pp. 908-911. **SP305-7.**
- Neutron reactions; Heavy actinides; Reactor production experiments; Heavy actinide burnup; Multigroup cross sections; *SP425*, pp. 224-228. **SP305-7.**
- Neutron refinement; Orthoclase, silicate minerals; Silicon aluminum ordering; Aluminum silicate; Feldspar; 13693. **SP305-5.**
- Neutron scattering; Neutron spectra; Phase transitions; Torsional vibrations; Barrier to rotation; Cosine potential; Globular molecules; Hindered rotation; Methyl group; Molecular reorientation; 10039. **SP305-1.**
- Neutron scattering; (NH<sub>4</sub>)<sub>2</sub>SiF<sub>6</sub>; Torsional vibrations; Ammonium ions; Barriers to rotation; Crystal structure; Disorder; Inelastic scattering; Neutron diffraction; 10053. **SP305-1.**
- Neutron scattering; Optical spectroscopy; Torsional vibration; Barriers to rotation; Large amplitude vibrations; Momentum transfer; 14684. **SP305-6.**
- Neutron scattering; Optical vibration; Vibration spectrum; Cold neutrons; Frequency; Inelastic scattering; Metal hydrides; 9506. **SP305.**
- Neutron scattering; Orientational correlation function; Time correlation function; Infrared absorption; Light scattering; Liquids; Magnetic resonance; Molecular dynamics; 11699. **SP305-2.**
- Neutron scattering; Orientational disorder; Phase transition; Reorientation; Residence time; Rubidium hydrosulfide; Vibration amplitude; 13930. **SP305-6.**
- Neutron scattering; Orientational disorder; Reorientation; Residence time; Single crystal; Ammonium bromide; Ammonium ion; 15032. **SP305-7.**
- Neutron scattering; Pair correlation function; Triplet correlation function; Closure approximation; Isothermal/density derivative of pair correlation function; Liquid neon; 13095. **SP305-5.**
- Neutron scattering; Palladium hydride; Quasielastic scattering; Single crystal; Hydrogen diffusion; Hydrogen in metals; Jump diffusion; 13136. **SP305-5.**
- Neutron scattering; Paraffin; Rotator phase; Molecular dynamics; n-alkanes; n-nonadecane; 13656. **SP305-5.**
- Neutron scattering; Perturbation of elementary excitations; Quantum liquids; Roton minimum; <sup>3</sup>He <sup>4</sup>He solutions; Lifetime of excitations; 15263. **SP305-7.**
- Neutron scattering; Phase transition; Quasielastic scattering; Vanadium hydride; Activation energy; Hydrogen diffusion; Lattice sites; 13163. **SP305-5.**
- Neutron scattering; Phase transition; Quasielastic scattering; Alkali hydrosulfides; Hydrosulfide ion; Ion reorientation; 13698. **SP305-5.**
- Neutron scattering; Phase transition; Quasielastic; Residence time; Sodium hydrosulfide; Cesium hydrosulfide; Hydrosulfides; Ion reorientation; Libration; 13700. **SP305-5.**

Neutron scattering; Phase transition; Torsional vibrations; Vibration spectra; Ammonium salt; Barrier to rotation; Ferroelectric; 10043. SP305-1.

Neutron scattering; Phase transition; Quasi-elastic scattering; Hydrosulfides; Libration; 15506. SP305-7.

Neutron scattering; Plastic crystal; Rotational; Spherical molecules; Diffusion; Light scattering; 11953. SP305-3.

Neutron scattering; Plastic crystal; Quasielastic; Activation energy; Cold neutron; Correlation time; Diffusion constant; Molecular reorientation; Neopentane; 11547. SP305-2.

Neutron scattering; Point defects; Vacancy; Anisotropic elastic continuum; Coherent scattering; Differential scattering cross-section; Elastic scattering; Isotropic elastic continuum; Lattice; Local force model; Long wavelength; 12701. SP305-4.

Neutron scattering; Propagating modes; Scattering function; Short wavelength; Collective excitations; Liquid rubidium; 15207. SP305-7.

Neutron scattering; Quasielastic scattering; Residence time; Single crystal; Vibration amplitudes; Hydrogen diffusion; Hydrogen in tantalum; Interstitial sites; 14368. SP305-6.

Neutron scattering; Quasielastic scattering; Resonance time; Tantalum hydrides; Vibrational amplitude; Activation energy; Hydrogen diffusion; 15264. SP305-7.

Neutron scattering; Raman; Stretching vibration; Bending vibration; Bifluoride ion, hydrogen bonding; Infrared; Lattice modes; 13144. SP305-5.

Neutron scattering;  $\text{RbMnF}_3$ ; Sum rules; Heisenberg magnets; Longitudinal diffusivity; Longitudinal spectral weight function; Moments; 10834. SP305-1.

Neutron scattering; Torsional modes; Barrier to rotation; Cosine potential; Frequency spectra; Hindered rotation; Internal rotation; Methylbenzenes; Methyl groups; 10424. SP305-1.

Neutron scattering; Torsional vibrations; Ammonium salts; Cross section; Crystals; Hindered rotation; Methylbenzenes; 12818. SP305-4.

Neutron scattering; Vibration spectra; Water librations; Cold neutrons; Coordination; Hydrated salts; Hydrates; Hydrogen-bonding; 9505. SP305.

Neutron scattering and potential; Coherent scattering function; Density fluctuations; Liquid rubidium; Molecular dynamics; 14248. SP305-6.

Neutron scattering, quasielastic scattering; Vanadium hydride; Vibration; Debye-Waller factor; Hydrogen diffusion, interstitial site; Linewidth; Momentum transfer; 12822. SP305-4.

Neutron scintillator; Thermal neutron detection; X-radiographic paper; Image quality; Neutron converters; Neutron radiography; 15549. SP305-7.

Neutron self-absorption; Neutron source calibration; Manganous sulfate bath; 12801. SP305-4.

Neutron self-shielding; Precision; Similar gamma-ray energy; Standard Reference Materials; Trace; Accuracy; Activation; Analysis; Decay curve resolution; Gamma-ray attenuation; Geometrical location; Neutron; 10078. SP305-1.

Neutron shielding; Particle accelerators; Rem; Concrete walls; 14691. SP305-6.

Neutron source; Radiation instruments; Calibration; Manganous sulfate; SP456, pp. 87-89 (Nov. 1976). SP305-8.

Neutron source; Scattering corrections; Threshold detectors; Activity measurement; Cross sections; Fission spectrum; SP425, pp. 273-276. SP305-7.

Neutron source absorption; Neutron source calibration; Thermal neutron absorption; Manganous sulfate bath; 12177. SP305-3.

Neutron source calibration; Manganous sulfate bath; Neutron self-absorption; 12801. SP305-4.

Neutron source calibration; Thermal neutron absorption; Manganous sulfate bath; Neutron source absorption; 12177. SP305-3.

Neutron sources; Neutron spectra; Neutron spectrum measurement methods;  $^{252}\text{Cf}$ ; Manganous sulfate bath; Neutron emission rate; 12880. SP305-4.

Neutron sources; Standard reference materials; Neutron cross sections; Neutron measurement standards; Neutron radiation fields; 10661. SP305-1.

Neutron spectra; Neutron spectrum measurement methods;  $^{252}\text{Cf}$ ; Manganous sulfate bath; Neutron emission rate; Neutron sources; 12880. SP305-4.

(neutron) spectra; Neutron temperature; (neutron) thermalization; Transport (effects); Cold neutrons;  $\text{D}_2\text{O}$  (ice); (leakage) spectra; Neutron; (neutron) flux; (neutron) moderation; 10042. SP305-1.

Neutron spectra; Phase transition; Ferroelectrics;  $\text{H}_2\text{O}$ ; Ice; Ir; elastic scattering;  $\text{K}_4\text{Fe}(\text{CN})_6 \cdot 3\text{H}_2\text{O}$ ; Librations; Low-frequency modes; Neutron cross-sections; 9504. SP305.

Neutron spectra; Phase transitions; Potential barrier; Rotation; Thiourea; Urea; Ferroelectric; Libration; Molecular vibrations; 10425. SP305-1.

Neutron spectra; Phase transitions; Torsional vibrations; Barrier to rotation; Cosine potential; Globular molecules; Hindered rotation; Methyl group; Molecular reorientation; Neutron scattering; 10039. SP305-1.

Neutron spectra; Selection rules; Cobaltic acid; Crystal structure; Hydrogen bond; Infrared spectra; Isotope effect; Lattice vibrations; 10898. SP305-2.

Neutron spectra; Vibration spectra; Chromous acid;  $\text{DClO}_4$ ;  $\text{HClO}_4$ ; Hydrogen bond; Infrared spectra; Isotope effect; Lattice modes; 10040. SP305-1.

Neutron spectrum; One-dimensional transport calculation; Stainless steel; Time-of-flight; Activation method; Group constants; Iron; SP425, pp. 184-188. SP305-7.

Neutron spectrum; Transplutonium; Waste management; Yield; Actinide burnup; Cross section sets; SP425, pp. 214-215. SP305-7.

Neutron spectrum measurement methods;  $^{252}\text{Cf}$ ; Manganous sulfate bath; Neutron emission rate; Neutron sources; Neutron spectra; 12880. SP305-4.

Neutron spectrum unfolding; NE-213 detector; Nitrogen cross sections; Concrete and steel shield; Gamma-ray spectrum unfolding; Integral measurements; SP425, pp. 161-164. SP305-7.

Neutron standards; Manganous sulfate bath calibration; Neutron sources; Neutron; TN576. SP305-3.

Neutron standards; Neutrons;  $\text{T}(p,n)^3\text{He}$  reaction; Associated particle technique; Neutron detector; Neutron flux monitoring; 16159. SP305-8.

Neutron standards;  $\text{T}(p,n)^3\text{He}$  reaction; Associated particle technique; Neutron detector; Neutron flux monitoring; Neutrons; SP425, pp. 75-77. SP305-7.

Neutron standards; Uranium-235 cavity fission spectrum; Dosimetry; Fission cross sections; SP425, pp. 254-255. SP305-7.

Neutron strength function; Doorway states, optical model; SP425, pp. 338-341. SP305-7.

Neutron strength functions; Optical potential; Quasi-particle fluctuations; SP425, pp. 806-809. SP305-7.

Neutron temperature; (neutron) thermalization; Transport (effects); Cold neutrons;  $\text{D}_2\text{O}$  (ice); (leakage) spectra; Neutron; (neutron) flux; (neutron) moderation; (neutron) spectra; 10042. SP305-1.

Neutron testing; Pipeline inspection; Railroad inspection; Transportation; Vehicle inspection; Airport pavement; Bridge inspection; 15213. SP305-7.

Neutron therapy; Absorbed dose; Intercomparison; Kerma; Neutron dosimetry; Neutron radiobiology; 15540. SP305-7.

(neutron) thermalization; Transport (effects); Cold neutrons;  $\text{D}_2\text{O}$  (ice); (leakage) spectra; Neutron; (neutron) flux; (neutron) moderation; (neutron) spectra; Neutron temperature; 10042. SP305-1.



Neutron time-of-flight; Neutron total cross sections; MeV neutrons; *Monogr. 138. SP305-6.*

Neutron time-of-flight; Neutron total cross section; On-line computer; Program Selector Board; Data handling system; Interruptible computer; *TNS15. SP305-2.*

Neutron time-of-flight spectroscopy; Angular distributions; Differential cross sections; Neutron cross sections; *SP425*, pp. 938-941. **SP305-7.**

Neutron TOF facility; C(n,n), E=9-15 MeV, measured  $\sigma(E_n)$ ; D(d,n)<sup>3</sup>He and C(n,n) spectra; *SP425*, pp. 99-102. **SP305-7.**

Neutron total cross section; On-line computer; Program Selector Board; Data handling system; Interruptible computer; Neutron time-of-flight; *TNS15. SP305-2.*

Neutron total cross section; Pulsed neutron sources; Time-of-flight; Carbon; *14809. SP305-7.*

Neutron total cross sections; MeV neutrons; Neutron time-of-flight; *Monogr. 138. SP305-6.*

Neutron transport; Correlations; Covariances; Data adequacy; Estimated uncertainties; Evaluations; *SP425*, pp. 842-847. **SP305-7.**

Neutron transport; Polynomial representations; Radiation penetration; Biorthogonal function; Gamma-ray transport; Moment methods; *J. 76B Nos. 3 and 4, 91-108 (1972). SP305-4.*

Neutron transport; Polynomial truncation errors; Sievert function; Biorthogonal polynomials; Gamma-ray transport; Moment method; *J75B Nos. 1 and 2, 1-16 (1971). SP305-3.*

Neutron transport; Reactor shields; Shielding; Concrete; Function fitting; Moments; *13910. SP305-6.*

Neutron transport; Shielding; Carbon; Computer code; Gauss quadrature; Moments; *TN725. SP305-4.*

Neutron wavelength; Total neutron cross section; Barrier to rotation; Cross-section slope; Free rotation; Methyl group; *10041. SP305-1.*

Neutron yield; Photonuclear cross sections; Photoneutrons; Radiation transport; Bremsstrahlung; Monte Carlo; *13263. SP305-5.*

Neutron-activation; Tellurium; Chemical separation; Distillation; *9169. SP305.*

Neutron-activation analysis; Biosyntheses; Catalysis in biosyntheses; Copper; Human lung tissue; Lung tissue; *9830. SP305-1.*

Neutron-coupled gamma-ray cross sections; Gas-cooled fast breeder reactor; *SP425*, pp. 444-446. **SP305-7.**

Neutron-induced cavitation; Radiation-induced cavitation; Threshold; Acoustic cavitation; Alpha-particle-induced cavitation; Cavitation; Cavitation nucleus; Cavitation threshold; Fission-induced cavitation; *J71C4-261, 299-312 (1967). SP305.*

Neutron-induced low-energy photons; Tantalum; Cross sections; Fluorine; *SP425*, pp. 762-765. **SP305-7.**

Neutron-induced reactions; <sup>12</sup>C data; 56 MeV; Facility; *SP425*, pp. 103-105. **SP305-7.**

Neutron-neutron scattering; Neutron penetration; Re-entrant holes; Air ducts in shields; Collimators; Neutron instrumentation; *13341. SP305-5.*

Neutron-neutron scattering; Re-entrant holes; Straight ducts; Collimators; Multiple neutron backscattering; Neutron experimental equipment; *12812. SP305-4.*

Neutron-proton scattering; Structure; Time-of-flight; Cross section; Hydrogen; Neutron; *11448. SP305-2.*

Neutrons; Analysis; Application; Concrete; Feasibility; Gamma rays; *SP425*, pp. 496-499. **SP305-7.**

Neutrons; Capture gamma rays; Cross sections; Dosimetry; Filtered beams; *SP425*, pp. 89-92. **SP305-7.**

Neutrons; Cross sections; Dosimetry; Evaluation; Flux spectrum; Neutron flux; *SP425*, pp. 250-253. **SP305-7.**

Neutrons; Neutron standards; T(p,n)<sup>3</sup>He reaction; Associated particle technique; Neutron detector; Neutron flux monitor; *SP425*, pp. 75-77. **SP305-7.**

Neutrons; Nitrogen; Sensitivity calculation; Air transport; Cross sections; *SP425*, pp. 436-439. **SP305-7.**

Neutrons; Nuclear; Photons; Photoneuclear; Protons; Reactions; Theory; Experiment; *13187. SP305-5.*

Neutrons; Nuclear data; Nuclear technology; Reactors; Cross sections; *SP299, Volumes 1 and 2. SP305-1.*

Neutrons; Nuclear model; Cross section; *SP425*, pp. 332-334. **SP305-7.**

Neutrons; Nuclear physics; T(p,n) neutrons; <sup>10</sup>B(n, $\alpha$ )Li reaction; Branching ratio; Gas proportional counter; *14813. SP305-7.*

Neutrons; Nuclear reactions; Protons; Solar flares; Acceleration mechanisms; *SP425*, pp. 512-515. **SP305-7.**

Neutrons; Nuclear technology; Reactors; Shielding; Cross sections; Meeting; *10749. SP305-1.*

Neutrons; Optical potential; R-matrix; Strength; Time-of-flight; Function; Mass number; *14014. SP305-6.*

Neutrons; Oxygen; Protons; time delay; Time smoothing; Deuterium; Moderator; Monte Carlo; *13345. SP305-5.*

Neutrons; Pairing; Quartetting; Shell-model; Structure; Wave function; Correlations; *12851. SP305-4.*

Neutrons; Phase shifts; Tritons; Alpha particles; Cross sections; Deuterons; *SP425*, pp. 701-703. **SP305-7.**

Neutrons; Photodisintegration; Bremsstrahlung; Cross section; Cryostat; Helium-3; Helium-4; *9739. SP305-1.*

Neutrons; Pions; Protons; Radiation dosimetry; Radiation quality; Radiation transport theory; Absorbed dose distribution; Electrons; Heavy ions; Interpretation of measurements; *13331. SP305-5.*

Neutrons; Plutonium; X rays; Betas; Calibrations; Dosimetry; Gammas; *SP456*, pp. 267-276 (Nov. 1976). **SP305-8.**

Neutrons; Point source; Shielding; Single scatter; Air-scatter; Angular distribution; Energy spectrum; Gamma rays; *9308. SP305.*

Neutrons; Proportional counter; Cavity chamber; Energy deposition; Linear energy transfer; *9625. SP305-1.*

Neutrons; Protons; Radiation damage; Radiation effects; Silicon; Electrons; Lithium-drifted silicon detector; *12782. SP305-4.*

Neutrons; Pu<sup>239</sup>-Be; Radiation simulation; RTG; Test; Evaluation; MOSFETS; *SP336*, pp. 129-140. **SP305-3.**

Neutrons; Radiation hardness; Receivers; Schottky-barrier diodes; Semiconductors; Solid-state devices; X-band measurements; Diodes; Gamma rays; Hardness assurance; Microwave mixer diodes; Mixers; *SP400-7. SP305-8.*

Neutrons; Radiation quality; Secondary particle spectra; Theoretical dosimetry; Energy deposition spectra; Microdosimetry; Neutron interactions with tissue; *16182. SP305-8.*

Neutrons; Radiative capture; Response functions; Sodium iodide detector; California; Gamma rays; *13026. SP305-4.*

Neutrons; Ratio; <sup>238</sup>U; <sup>235</sup>U; 600 keV-22 MeV; Cross-sections; Fission; Measured; *SP425*, pp. 568-571. **SP305-7.**

Neutrons; Reaction rates; Spectra; Cross sections; Flux; *SP425*, pp. 189-192. **SP305-7.**

Neutrons; Reactors; Resonances; Unresolved; Cross sections; ENDF/B; *SP425*, pp. 371-379. **SP305-7.**

Neutrons; Reactors; Resonant scatterer; Monoenergetic neutrons; Neutron beams; Neutron filters; *SP456*, pp. 83-85 (Nov. 1976). **SP305-8.**

Neutrons; Scattering; Albedo; Collimation; Dosimetry; Ion chambers; N- $\gamma$  dosimetry; *SP456*, pp. 335-341 (Nov. 1976). **SP305-8.**

Neutrons; Scintillators; Time-of-flight; Detector; Flux; Monte Carlo; *SP425*, pp. 73-74. **SP305-7.**

Neutrons; Shielding; Truncation errors; Biorthogonal functions; Gamma rays; Moments methods; *12863. SP305-4.*

- Neutrons; Simultaneous; Three-circle; X-ray; Diffraction; Diffractometer; 9524. SP305.
- Neutrons; Spectroscopy; Dosimetry; Filtered beams; SP425, pp. 116-118. SP305-7.
- Neutrons; Time-of-flight; Hauser-Feshbach; Inelastic-scattering; Measurements; MeV range 2 to 4.5; SP425, pp. 871-874. SP305-7.
- Neutrons; T(p,n)<sup>3</sup>He reaction; Associated particle technique; Neutron detector; Neutron flux monitor; Neutron standards; 16159. SP305-8.
- Neutrons; 1 keV — 1 MeV; <sup>239</sup>Pu; <sup>235</sup>U; Cross-sections; Fission; Measured; SP425, pp. 564-567. SP305-7.
- New antenna theorems; Antenna gain; Antenna pattern; Calculated far-field patterns; Near-field measurements; 11856. SP305-3.
- New developments in dental materials; Zinc oxide-eugenol cements; Dental cements; Dental materials; EBA cements; 10319. SP305-1.
- New enterprises; Patent Office; Patent system; Technological policy making; Technology; Antitrust doctrine; Employed inventors; Entrepreneurship; Innovation; Invention; Needs of society; SP388. SP305-6.
- New enterprises; University R. & D; Entrepreneurship; Environment for innovation; Government policy for innovation; Industry R. & D.; SP388, pp. 23-28. SP305-6.
- New facility; Radiation; Storage ring; Synchrotron radiation; Vacuum ultraviolet; Electron accelerator; 15026. SP305-7.
- New generation military hospital; System design; Architecture; Design; Hospital design; Medical facilities; Military construction; B5554, 1-12. SP305-6.
- New housing; Energy conservation; Energy efficient design; Life-cycle cost models; 16129. SP305-8.
- New information; Patent reform; Patent system; Economic tradeoffs; Monopolies; SP388, pp. 11-14. SP305-6.
- New materials; New processes; Agrément; Assessment; Durability; SP361, Vol. I, pp. 503-506. SP305-4.
- New processes; Agrément; Assessment; Durability; New materials; SP361, Vol. I, pp. 503-506. SP305-4.
- New results; New techniques; Review; Neutron cross sections; SP425, pp. 119-128. SP305-7.
- New spectroscopic techniques; Optical excitation; Potential curves; Dissociation laser; Excimers; Excited state kinetics; *f*-values; Mercury molecules; Monogr. 143. SP305-7.
- New techniques; Review; Neutron cross sections; New results; SP425, pp. 119-128. SP305-7.
- New technology; Performance standards; Product standards; Standardization; 12245. SP305-3.
- New York City schools; Ventilation; Air quality; Intermittent operation; Maximum allowable concentration of CO<sub>2</sub>; 16550. SP305-8.
- New York State offices; Office buildings; Commercial buildings; Energy conservation; Energy consumption; Manchester office building; National Bureau of Standards; 16547. SP305-8.
- Newton form; Polynomial; Relative error; Round-off; Evaluation; J71B1-191, 11-17 (1967). SP305.
- Next nearest neighbor interaction; Antiferromagnetism; Bethe constant-coupling; Critical temperature; Ferromagnetism; Heisenberg model; Ising model; 13220. SP305-5.
- NE-213 detector; Nitrogen cross sections; Concrete and steel shield; Gamma-ray spectrum unfolding; Integral measurements; Neutron spectrum unfolding; SP425, pp. 161-164. SP305-7.
- NF; NF<sub>3</sub>; NF<sub>3</sub>; Ultraviolet spectrum; Vacuum ultraviolet photolysis; Infrared spectrum; Matrix isolation; 14440. SP305-6.
- NF; NF<sub>3</sub>; Thermodynamic properties; Visible-ultraviolet spectrum; F atom reactions; Force constants; HNF; HNF<sub>2</sub>; Infrared spectrum; Matrix isolation; 9335. SP305.
- NFPA; Curtains; Draperies; FFACTS system; Fire; Flammable fabrics; NBSIR 75-902. SP305-8.
- NF<sub>3</sub>; NF<sub>3</sub>; Ultraviolet spectrum; Vacuum ultraviolet photolysis; Infrared spectrum; Matrix isolation; NF; 14440. SP305-6.
- NF<sub>3</sub>; Photolysis; thermodynamic properties; Ultraviolet spectrum; <sup>19</sup>F; <sup>13</sup>CF<sub>2</sub>; <sup>12</sup>CF<sub>2</sub>; <sup>13</sup>CF<sub>3</sub>; C atom reaction; F atom reaction; F<sub>2</sub> reaction; Force constants; Free radical; 1058. SP305-1.
- NF<sub>3</sub>; Thermodynamic properties; Visible-ultraviolet spectrum; atom reactions; Force constants; HNF; HNF<sub>2</sub>; Infrared spectrum; Matrix isolation; NF; 9335. SP305.
- NF<sub>3</sub>; ONF<sub>3</sub>; Vacuum ultraviolet; Bond dissociation energies; Heats of formation; Ionization energies; Mass spectra; 1128. SP305-2.
- NF<sub>3</sub>; Ultraviolet spectrum; Vacuum ultraviolet photolysis; Infrared spectrum; Matrix isolation; NF; NF<sub>3</sub>; 14440. SP305-6.
- (n,γ) cross sections; Calculations; Complex interaction; Semi-direct model; Volume form; SP425, pp. 346-349. SP305-7.
- N-γ dosimetry; Neutrons; Scattering; Albedo; Collimated Dosimetry; Ion chambers; SP456, pp. 335-341 (Nov. 1976). SP305-8.
- NH; Photolysis; Vacuum ultraviolet; Fluorescence; Hydrated acid; 9417. SP305.
- NH; Spin-orbit coupling; Transition probability; Comet; Electric-dipole transition; Excited states; 16502. SP305-8.
- NH  $\Delta^2\pi$ , c' $\pi$ ; Photodissociation; Vacuum ultraviolet; Bond dissociation energy; Fluorescence; HNCO; NCO A $\Sigma^2$ ; 1201. SP305-3.
- NH cII; Photodissociation; Vacuum ultraviolet; Absorption spectrum; A $\Sigma^2$ ; Fluorescence; Fluorescence quenching; H<sub>2</sub>; 11075. SP305-2.
- n-heptane; O-heterocycles; Radio gas chromatographic analysis; Selective inhibition; Selectivity; Self-inhibition; Thermal control; 1-butene; 2-butene; Concurrent reactions; Consecutive reactions; Controlled oxidation; SP357, pp. 111-117. SP305-4.
- n-hexane; Oscillator strength; Electron; Electron scattering; Energy loss; Methane; 15444. SP305-7.
- n-hexane; Oscillator strengths; Spectra; Electron; Energy loss; Methane; 15443. SP305-7.
- N-hexane; Polarizability; Pressure; Carbon disulfide; Carbon tetrachloride; Density; Dielectric constant; 11067. SP305-7.
- n-hexane; Pressure; Three-terminal electrode set; Clausius-Mossotti; Density; Dielectric constant; Dilatometer; Function; High pressure; J71A4-460, 287-292 (1967). SP305.
- n-hexatricontane; n-pristane; n-tetracosane; n-tetracosane; Vaporization; Alkanes; Heats; 11840. SP305-3.
- NH<sub>2</sub><sup>+</sup>; OH<sup>+</sup>; Photoionization; Predissociation; Rydberg states; Ammonia; Appearance potential; Autoionization; Deuterium species; Enthalpy of formation; Ionization potential; 16550. SP305-8.
- NH<sub>2</sub><sup>+</sup>; OH<sup>+</sup> ions; Heats of formation; Ionization thresholds; Mass spectrometer; Photoionization; Radicals; Rydberg levels; Vacuum monochromators; Autoionization; Electrons; Excited states; H<sub>2</sub>O<sup>+</sup>; J70A6-417, 459-463 (1966). SP305-3.
- NH<sub>2</sub><sup>+</sup>; OH<sup>+</sup>; Photoionization; Threshold energies; Water; Ammonia; Dissociative photoionization; 15352. SP305-7.
- NH<sub>2</sub> vapor pressure; Binary systems; Gas solubility; He<sup>+</sup>; He<sup>2+</sup>-nD<sub>2</sub>; He<sup>2+</sup>-nH<sub>2</sub>; He<sup>2+</sup>-nH<sub>2</sub>; Liquid-vapor equilibrium; Vapor pressure; TN621. SP305-4.
- NH<sub>3</sub><sup>+</sup>; NH<sub>2</sub><sup>+</sup>; OH<sup>+</sup> ions; Heats of formation; Ionization thresholds; Mass spectrometer; Photoionization; Radicals; Rydberg levels; Vacuum monochromators; Autoionization; Electrons; J70A6-417, 459-463 (1966). SP305.
- NH<sub>3</sub>; N<sub>2</sub>O; Photoelectrons; Photoionization; Spectroscopy; C<sub>2</sub>H<sub>2</sub>; Franck-Condon principle; H<sub>2</sub>O; 12118. SP305-3.
- NH<sub>3</sub>; Photodissociation; Vacuum ultraviolet; Adsorption; Excited NH; Excited NH<sub>2</sub>; Fluorescence; 10411. SP305-1.
- NH<sub>3</sub>; Quadrupole splitting; Centrifugal distortion; Hyperfine structure; Inversion doublet; Molecular beam; 13262. SP305-5.

NH<sub>3</sub> ion; Photo-electron; Photo-ionization; Spectroscopy; Bond angle; Bond length; Franck-Condon factors; H<sub>2</sub>O; 10845. SP305-1.

NiH<sub>2</sub>ClO<sub>4</sub>; Thermal motion; Crystal structure; Low temperature; Meta-stable compound; Neutron diffraction; 15223. SP305-7.

NH<sub>4</sub>SiF<sub>6</sub>; Torsional vibrations; Ammonium ions; Barriers to rotation; Crystal structure; Disorder; Inelastic scattering; Neutron diffraction; Neutron scattering; 10053. SP305-1.

Ni; Alloys; Clustering; Cold work; Cu; Fe; Magnetic moments; Mössbauer effect; 11838. SP305-3.

Ni; Alloys; Cu; Fe; Magnetism; Moments; Mössbauer effect; 11490. SP305-2.

Ni; Alloys; Cu; Fe; Metallurgy; Mössbauer effect; 11671. SP305-2.

Ni; Photoemission; Soft X-ray spectrum; Ag; Cu; Double electron photoexcitation; 9442. SP305.

Ni; Sb; Pd; Alloys; Cu; Hyperfine fields; Magnetism; Mn; Mössbauer effect; 15016. SP305-7.

Ni coated sapphire whiskers; Optical metallography; Sapphire whiskers; Al-10 percent Si alloy; Electron probe microanalyzer; Fiber composites; Matrix-whisker bonding; *J.72A No. 3*, 269-272 (1968). SP305-1.

Ni I and Ni II; Oscillator strength; Relative measurements; Transition probabilities; Wall-stabilized arc; Line strength; Nickel-carbonyl; 9573. SP305-1.

Ni II; Relative line strengths;  $d^2 + d^p$ ; Intermediate coupling; LS coupling; 9937. SP305-1.

Ni-Al; Ni-Cr; Ni-V; Nuclear magnetic resonance; Hyperfine-field and atomic-moment; 10093. SP305-1.

Ni-Al; Nuclear magnetic resonance; Pulsed nuclear resonance; Quadrupolar interactions; Spin echoes; KI; 11475. SP305-2.

Ni-Al; Optical properties; AuZn; CsCl-type intermetallic compounds; Direct interband transitions; Electronic density of states; SP323, pp. 19-25. SP305-4.

Ni-Al system; Nickel; Soft x-ray spectroscopy; TiNi intermetallic compound; Transition probability energy; Aluminum; Density of states; L-emission band, M-emission band; 10890. SP305-2.

NiBr<sub>2</sub>; Single crystal; Antiferromagnetic; EPR; G value; K-band spectrometer; 9419. SP305.

Nickel; Alloys; Clustering; Copper; Iron; Local moments; Mössbauer effect; 12199. SP305-3.

Nickel; Alloys; Copper; Corrosion; Desalination; Iron; 10838. SP305-1.

Nickel; Alloys; Copper; Critical temperatures; Iron; Magnetism; Mössbauer effect; 14073. SP305-6.

Nickel; Alloys; Copper; Iron; Local moments; Magnetism; Mössbauer effect; 10612. SP305-1.

Nickel; Band structure; Energy levels; Excitation potential; Ground state potential; 15842. SP305-8.

Nickel; Copper; Corrosion; D-electron; Iron; Magnetic moment; Mössbauer effect; 10440. SP305-1.

Nickel; Copper; Invar effect; Iron; Magnetism; Mössbauer; 11459. SP305-2.

Nickel; Deformation twinning; Fe-Ni alloys; Low temperature; 10009. SP305-1.

Nickel; Iron; Gold; Mössbauer effect; Magnetism; Alloys; Copper; TN463. SP305-1.

Nickel; Neutron; Spectrum; Alpha particles; Cross section; Helium; SP425, pp. 810-812. SP305-7.

Nickel; Nickel alloys; Poisson's ratio; Shear modulus; Single-crystal elastic coefficients; Young's modulus; Bulk modulus; Compressibility; Elastic constant; Debye temperatures; Iron; Iron alloys; *J. Phys. Chem. Ref. Data* 2, No. 3, 531-618 (1973). SP305-6.

Nickel; Nickel-base alloys; Polarography; Spectrophotometry; X-ray fluorescence spectroscopy; Atomic absorption spectrophotometry; Emission spectroscopy; SP422, pp. 1005-1016 (Aug. 1976). SP305-8.

Nickel; Nickel-phosphorus; Chemical nickel; Coatings; Electroless nickel; Metal coatings; 13786. SP305-5.

Nickel; Nickel-phosphorus alloy, wear of; Auto-catalytic; Auto-catalytic nickel; Electroless; Electroless nickel, hardness of; 16391. SP305-8.

Nickel; Niobium; Platinum; Silver; Tantalum; Tin; Aluminum; Beryllium; Cobalt; Copper; Compilation; Electrical resistivity; Gold; Indium; Iron; Lead; Low temperature; Magnesium; Molybdenum; TN365. SP305-1.

Nickel; Nitrogen; Oxygen; Surface; Tungsten; Adsorption; Chemisorption; Cross section; Desorption; Electron stimulated desorption; Hydrogen; 12332. SP305-3.

Nickel; Normalization; Standard reference materials; Thermal ionization; Isotope dilution; Isotopes; Mass spectrometry; Molybdenum; 14904. SP305-7.

Nickel; Nuclear magnetic moment; Alloys; Hyperfine fields; Iron; 11569. SP305-2.

Nickel; Nuclear magnetic resonance; Platinum; X-ray photoemission; Alloys; Copper; Electronic density of states; Lanthanum; 15768. SP305-8.

Nickel; Orchard leaves; Aluminum; Analysis; Business; Differential cathode ray polarography; Iron; Lead; 15344. SP305-7.

Nickel; Overlapping spectra; Soft x-ray spectra of alloys; Temperature broadening; Ti-Al system; TiNi; Absorption correction; Density of states; Lifetime broadening; 10533. SP305-1.

Nickel; Oxide free; Paramagnetic; Soft x-ray; Transition probability; Density of states; Emission spectrum; Linear detection; 10334. SP305-1.

Nickel; Palladium; Platinum; Rhodium; Ruthenium; Thermomigration; Alloys; Cobalt; Copper; Diffusion; Electromigration; Iron; *IPCRD* 5, No. 1, 103-200 (1976). SP305-8.

Nickel; Parameters, theory; Energy levels;  $g$ -factors; *J.76A No. 2*, 125-136 (1972). SP305-4.

Nickel; Photoelectron energy distribution; Secondary-electron energy distribution; X-ray photoemission; Aluminum; Auger-transitions; Copper; Electronic density of states; 13483. SP305-5.

Nickel; Platinum; Reflection; Absorption; Chromium; Iron; Mirror; 12910. SP305-4.

Nickel; Platinum; Surface-diffusion; Surface properties; Activation energy; Field emission microscopy; 10186. SP305-1.

Nickel; Potassium; Rubidium; Strontium; Thorium; Uranium; Chromium; Isotopic ratios; Lead; Model ages; 13932. SP305-6.

Nickel; Pulsed NMR; Spin lattice relaxation; Knight shift; Magnetism; 16357. SP305-8.

Nickel; Reference materials; Selenium; Trace elements; Urine; Arsenic; Biological fluids; Chromium; Copper; Fluorine; Lead; *NBSIR* 73-406. SP305-6.

Nickel; Satellite emissions; Self absorption; Soft x-ray emission; X-ray spectroscopy; Zinc (Zn); Cobalt; Copper; Electronic density of states; Iron; SP323, pp. 319-226. SP305-4.

Nickel; Scanning electron microscopy; Transformer alloy; Bitter patterns; Contrast mechanisms; Magnetic domains; 13937. SP305-6.

Nickel; Scanning electron microscopy; Contrast measurement; Image contrast; Iron-silicon alloy; Magnetic domains; 14049. SP305-6.

Nickel; Scanning electron microscopy; Contrast measurement; Image contrast; Iron-silicon alloy; Magnetic domains; 14436. SP305-6.

Nickel; Secondary-electron energy distribution; X-ray photoemission; Aluminum; Auger transitions; Copper; Electronic density of states; 13058. SP305-5.

Nickel; Secondary-electron energy distribution; X-ray photoemission; Aluminum; Auger transitions; Copper; Electronic density of states; 13145. SP305-5.

- Nickel; Separations; Atomic absorption; Atomic fluorescence; Cobalt; Interferences; Iron; *15577. SP305-7.*
- Nickel; Simultaneous spectrophotometric; 2,3-quinoxalinedithiol; Aqueous ethanol; Cobalt; Colored complexes; Copper; Least squares treatment data; *11682. SP305-2.*
- Nickel; Single crystal; Surface morphology; Surface reaction; Bromine; Electron micrograph; *10489. SP305-1.*
- Nickel; Single crystals; Superalloy; Aluminum; Elastic constants; Elastic moduli; *11290. SP305-2.*
- Nickel; Single crystals; Tungsten; Electron polarization; Electron scattering; Low energy; *15747. SP305-8.*
- Nickel; Soft x-ray; Copper; Electronic density of states; Mechanical strain; Modulation technique; *SP323*, pp. 281-285. **SP305-4.**
- Nickel; Soft x-ray spectroscopy; TiNi intermetallic compound; Transition probability energy; Aluminum; Density of states; L-emission band, M-emission band; Ni-Al system; *10890. SP305-2.*
- Nickel; Spectral series; Spectroscopy; Wavelength; Energy levels; Ionization potential; *J.75A No. 4, 335-336 (1971).* **SP305-3.**
- Nickel; Spectral series; Spectroscopy; Wavelength; Energy levels; Ionization potential; *J.74A No. 6, 801-855 (1970).* **SP305-2.**
- Nickel; Stainless steels; Steels; Alloys; Corrosion-resisting alloys; Copper-nickel alloys; Electroplating; Electrical resistance alloys; Heat resisting alloys; Magnetic alloys; Maraging steels; *Monogr. 106. SP305-1.*
- Nickel; Surface reaction; Fluorine; High temperature; Kinetics; Mass spectrometry; *9374. SP305.*
- Nickel; Tellurium; Ultrasonics; Compressibility; Cylinder distortion; High pressure; *J.71C1-439, 11-17 (1967).* **SP305.**
- Nickel; Thermal expansion; Alloys; Aluminum; Copper; Expansivity; Iron; Metals; *10876. SP305-2.*
- Nickel; Transition probabilities; Vanadium; Chromium; Cobalt; Forbidden transitions; Iron; Manganese; *J. Phys. Chem. Ref. Data 2, No. 1, 85-120 (1973).* **SP305-6.**
- Nickel; Valency; Antimony; Ferrites; Hyperfine fields; Iron; Mössbauer effect; *14320. SP305-6.*
- Nickel;  $(3d + 4s)^4p$ ;  $3d^4p + 3d^4s^4p + 3d^5p$ ; Energy levels;  $g$ -factors; Interactions between configurations; *J.74A No. 5, 715-722 (1970).* **SP305-2.**
- Nickel alloy; Stainless steels; Statistics; Aluminum alloys; Cryogenic; Electrical resistivity; Low temperature; Material variability; *13215. SP305-5.*
- Nickel alloy; Thermal conductivity; Thermopower; Titanium alloy; Aluminum alloy; Electrical resistivity; Lorenz ratio; *11336. SP305-2.*
- Nickel alloys; Duranickel; Nickel-aluminum precipitates; High temperatures; Deformation; Cold-drawing; Creep; *J.70C3-231, 195-205 (1966).* **SP305.**
- Nickel alloys; Phase transformations/solid-state; Twinning; Crystal imperfections; Electron diffraction crystallography; Iron alloys; *12913. SP305-4.*
- Nickel alloys; Phenolformaldehyde; Stainless steels; Superconducting machinery; Thermal conductivity; Titanium alloys; Aluminum alloys; Composites; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Cryogenic temperatures; Maraging steels; *NBSIR 76-848. SP305-8.*
- Nickel alloys; Poisson's ratio; Pulse-echo method; Sound velocity; Young's modulus; Bulk modulus; Chromium alloys; Compressibility; Debye temperature; Doring effect; Elastic constants; Iron alloys; Magnetic transition; *15343. SP305-7.*
- Nickel alloys; Poisson's ratio; Shear modulus; Single-crystal elastic coefficients; Young's modulus; Bulk modulus; Compressibility; Elastic constant; Debye temperatures; Iron; Iron alloys; *J. Phys. Chem. Ref. Data 2, No. 3, 531-618 (1973).* **SP305-6.**
- Nickel alloys; Seebeck effect; Thermal conductivity; Titanium alloy; Transport properties; Aluminum alloy; Cryogenics; Electrical resistivity; Lorenz ratio; *J.75A No. 4, 269-277 (1971).* **SP305-3.**
- Nickel alloys; Stacking fault energy; X-ray diffraction; Invar; Iron alloys; *16191. SP305-8.*
- Nickel alloys; Steels; Stress corrosion; Stress corrosion failures; Testing techniques; Aluminum alloys; Copper alloys; Magnesium alloys; *9902. SP305-1.*
- Nickel alloys; Superconducting machinery; Thermal conductivity; Composites; Copper alloys; Cryogenic temperatures; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Mechanical properties; *NBSIR 75-828. SP305-8.*
- Nickel alloys; Superconducting machinery; Thermal conductivity; Aluminum alloys; Composites; Cryogenic temperatures; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Mechanical properties; *NBSIR 76-839. SP305-8.*
- Nickel alloys; Titanium alloys; Aluminum alloys; Copper alloys; Cryogenics; Electrical conductivity; Iron alloys; *11873. SP305-3.*
- Nickel alloys; Titanium alloys; Aluminum alloys; Copper alloys; Electrical resistivity; Iron alloys; *11731. SP305-2.*
- Nickel aluminate; Order-disorder; Peierls barriers; Pt-Cu; Silver; tellurium ( $Ag_2Te$ ); Ti-Al; TiCo; TiFe; TiNi; TiTe; Binary alloys;  $Bi_2Te_3$ ; CdSb; Copper-gold (Cu-Au); *SP323*, pp. 483-492. **SP305-4.**
- Nickel aluminide (NiAl); Soft x-ray emission; Aluminum oxide ( $Al_2O_3$ ); Electronic density of states; Gold aluminide ( $AuAl_3$ ); Knight shift; Magnesium-aluminum alloy phase; *SP323*, pp. 665-670. **SP305-4.**
- Nickel aluminum ferrite; Ferrite; Ferrimagnetic resonance; Ferrimagnetic resonance surface effect; *11117. SP305-2.*
- Nickel, auto-catalytic; Nickel, electroless; Nickel-phosphor alloy; Wear resistant alloy; Auto-catalytic nickel; Auto-catalytic nickel, hardness of; Auto-catalytic nickel, wear of; Electroless nickel; Electroless nickel, hardness of; *SP452*, pp. 41-55 (Sept. 1976). **SP305-8.**
- Nickel cobalt oxides; Oxygen evolution, Pourbaix diagram; Semiconducting oxides; Spinels; Teflon bonded electrode; *SP455*, pp. 281-288 (Nov. 1976). **SP305-8.**
- Nickel dimethylglyoxime; Absorption spectra; Diamond-anvil cell; High pressure measurement; *J.72A No. 2, 149-153 (1968).* **SP305-1.**
- Nickel, electroless; Nickel-phosphorus alloy; Wear resistant alloy; Auto-catalytic nickel; Auto-catalytic nickel, hardness of; Auto-catalytic nickel, wear of; Electroless nickel; Electroless nickel, hardness of; Electroless nickel, wear of; *SP455*, pp. 45-55 (Sept. 1976). **SP305-8.**
- Nickel hydride; Adsorption; Catalysis; Copper hydride; Magnesium oxide; Molecular structure; *SP455*, pp. 53-58 (Nov. 1976). **SP305-8.**
- Nickel Mössbauer spectroscopy; Nuclear hyperfine interaction; Quadrupole splitting; Single line source; Chemical shift; Electronic configurations; Internal magnetic fields; Magnetic fields; Magnetic moment ratio; *11163. SP305-2.*
- Nickel oxide; Oxide electrodes; Oxygen electrochemistry; Semiconductor electrodes; Carbon; Electrocatalysis; *SP455*, pp. 203-219 (Nov. 1976). **SP305-8.**
- Nickel oxide; Oxide electrodes; Oxygen electrode reaction; Ruthenium dioxide/titanium dioxide; Spinels; Electrocatalysis; Nickel-cobalt oxide; *SP455*, pp. 289-296 (Nov. 1976). **SP305-8.**
- Nickel oxide; Paper chromatography; Radiometric methods; Analysis; Co; Cu; Fe; Mn; NBS Standard Reference Material; *671; 9875. SP305-1.*
- Nickel oxide; Radioisotopic dilution; Standard reference material; Analysis; Cobalt; Dowex 50-X8; EDTA; Iron; *98. SP305-1.*
- Nickel pellets; Nickel powder; Nuclear resonance; Permeability; Critical field; Field dependence; *9575. SP305-1.*



- Nickel phosphorus; Electroless nickel; Electroless plating; 13772. SP305-5.
- Nickel powder; Nuclear resonance; Permeability; Critical field; Field dependence; Nickel pellets; 9575. SP305-1.
- Nickel single crystals; Surface reflection topography; Transmission topography; X-ray diffraction topography; Crystal perfection; Czochralski growth; Domain walls; Magnetic domains; 16503. SP305-8.
- Nickel steels; Crack propagation; Cryogenics; Fracture toughness; Mechanical properties; 15530. SP305-7.
- Nickel steels; Poisson's ratio; Shear modulus; Sound velocity; Young's modulus; Aluminum alloy; Bulk modulus; Compressibility; Debye temperature; Elastic constant; 15522. SP305-7.
- Nickel steels; X-ray analysis; X-ray diffraction; Statistics; Computer programs; Fourier analysis; TN600. SP305-3.
- Nickel surfaces; Oxidation; Emission microscopy; Field-emission; 10619. SP305-1.
- Nickel-aluminum precipitates; High temperatures; Deformation; Cold-drawing; Creep; Nickel alloys; Duranickel; J70C3-231, 195-205 (1966). SP305.
- Nickel-base alloys; Nickel-chromium alloys; Nickel-silicon alloys; Reference tables; Temperature measurements; Thermal emf; Thermocouples; Thermoelectric reference data; Thermometry; Calibration; 15518. SP305-7.
- Nickel-base alloys; Poisson's ratio; Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; 15533. SP305-7.
- Nickel-base alloys; Polarography; Spectrophotometry; X-ray fluorescence spectroscopy; Atomic absorption spectrophotometry; Emission spectroscopy; Nickel; SP422, pp. 1005-1016 (Aug. 1976). SP305-8.
- Nickel-cadmium batteries; Satellite batteries; Separator materials; Battery separators; NBSIR 74-541. SP305-7.
- Nickel-carbonyl; Ni I and Ni II; Oscillator strength; Relative measurements; Transition probabilities; Wall-stabilized arc; Line strength; 9573. SP305-1.
- Nickel-chromium alloys; Nickel-silicon alloys; Reference tables; Temperature measurements; Thermal emf; Thermocouples; Thermoelectric reference data; Thermometry; Calibration; Nickel-base alloys; 15518. SP305-7.
- Nickel-chromium-iron alloys; Poisson's ratio; Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constant; 15525. SP305-7.
- Nickel-cobalt oxide; Nickel oxide; Oxide electrodes; Oxygen electrode reaction; Ruthenium dioxide/titanium dioxide; Spinel; Electrocatalysis; SP455, pp. 289-296 (Nov. 1976). SP305-8.
- Nickel-Monel; Non-corrosive; Value; Fluoride; High-temperature; High-vacuum; Metal; 10748. SP305-1.
- Nickel-phosphorus; Chemical nickel; Coatings; Electroless nickel; Metal coatings; Nickel; 13786. SP305-5.
- Nickel-phosphorus alloy; Wear resistant alloy; Auto-catalytic nickel; Auto-catalytic nickel, hardness of; Auto-catalytic nickel, wear of; Electroless nickel; Electroless nickel, hardness of; Electroless nickel, wear of; Nickel, auto-catalytic; SP452, pp. 45-55 (Sept. 1976). SP305-8.
- Nickel-phosphorus alloy, wear of; Auto-catalytic; Auto-catalytic nickel; Electroless; Electroless nickel, hardness of; Nickel; 16391. SP305-8.
- Nickel-silicon alloys; Reference tables; Temperature measurements; Thermal emf; Thermocouples; Thermoelectric reference data; Thermometry; Calibration; Nickel-base alloys; Nickel-chromium alloys; 15518. SP305-7.
- Nickel-single crystals; Passive film; Polarization; Surfaces; Dislocations; 11758. SP305-2.
- Nickel-titanium alloy; Temperature dependence; Annealed specimens; Cold-worked specimens; Elastic moduli; Internal friction; 9511. SP305.
- Nickel-59; Resonance integral; Resonance parameters; Thermal cross section; SP425, pp. 776-779. SP305-7.
- Nickel-61; Nuclear recoil; Overflow counter; Photonuclear reactions; Proportional counter; Quantitative Mössbauer spectrometry; Standard reference materials; Backscatter geometry; Computer programs for Mössbauer spectrometry; Computers; TN451. SP305-1.
- Nickel-61; PARLORS program for Mossbauer spectra; Photoneutron reaction; Solid state detectors; Standard reference materials; Tin standard for chemical shift; Computers; Cross sections; Detection limits for analysis; Flux monitors; Mossbauer instrumentation; TN421. SP305.
- Nickel-61; Proportional detector; Radiochemistry; Radioisotope dilution; Rutile; Self-consistent crystal field; Standard reference materials; Structure analysis; Calculations; Conversion electrons; Counting statistics; Cross sections; Cryostats; TN501. SP305-2.
- Nickel-63; Radioactive calorimetry; Radioactive standardization; Intercomparative measurements; 14302. SP305-6.
- NiCl<sub>2</sub>; Transition-metal reactions; Ultraviolet spectrum; Cl<sub>2</sub> reactions; CoCl<sub>2</sub>; CrCl<sub>3</sub>; Emission spectrum; FeCl<sub>3</sub>; Infrared spectrum; Matrix isolation; MnCl<sub>2</sub>; Molecular orbitals; 11340. SP305-2.
- Nicotinamide adenine dinucleotide; Optical rotation; Alcohol dehydrogenase; Fluorescence studies; 13942. SP305-6.
- Nicotinic acid; Calorimetry; Combustion; Creatinine; Enthalpy; Formation; Heat; J.79A No. 2, 425-430 (1975). SP305-7.
- Nicotinic acid; Reference materials; Thermochemical; Thermochemical standards; Thianthrene; Urea; Acetanilide; Bomb calorimetry; Calorimetry; Chlorobenzoic acid; Combustion; Creatinine; Fluorobenzoic acid; 15441. SP305-7.
- Nicotinic acid; 1,2,3,4-metallo-organic standard reference materials; Periodic acid; Polycyclic air-pollutants; Polyhydroxy cyclic compounds; Standard reference materials; Sucrose; Sulfonic Ka measurements; Urea; Uric acid; Acetylation; TN457. SP305-1.
- Ni(CO)<sub>4</sub>; Vacuum ultraviolet spectroscopy; Dissociation energies; Fe(CO)<sub>5</sub>; Heats of formation; Ionization; Mass spectrometry; J.74A No. 2, 233-238 (1970). SP305-2.
- Ni-Cr; Ni-V; Nuclear magnetic resonance; Hyperfine-field and atomic-moment; Ni-Al; 10093. SP305-1.
- Ni-Fe pitting; Corrosion rates; Ni-Fe alloys; Polarization techniques; Polarization rate; Polarization resistance; Polarization circuits; J.70C3-230, 187-194 (1966). SP305.
- Night vision; Contrast transfer function; Flare; Image intensifiers; Law enforcement; Light equivalent background; Light induced; Optical gain; 16239. SP305-8.
- Night vision; Objective lenses; Resolution test; Variable contrast resolution; Contrast curves; Low contrast resolution; 14950. SP305-7.
- Night vision; Optical gain; Contrast transfer function; Distortion; Flare; Image intensifiers; Law enforcement; Light equivalent background; Light induced background; 13967. SP305-6.
- Night vision; Precision; Surface roughness; Art; Clinical chemistry; Fire services; High-accuracy mass spectrometry; Materials failure; DIM/NBS 57, No. 9, 201-224 (1973). SP305-5.
- Night vision devices; Optical gain; Contrast transfer function; Distortion; Flare; Image intensifiers; Law enforcement; Light equivalent background; Light induced background; 13450. SP305-5.
- Night vision devices; Optical gain; Test methods; Contrast transfer function; Distortion; Flare; Light equivalent background; Light induced background; 14551. SP305-6.
- Night vision devices; Optical transfer function; Resolution charts; Veiling glare; Blooming; Contrast transfer function; Distortion; Flare; Image quality; Light induced background; Limiting resolution; 16599. SP305-8.
- Nightglow emission; Airglow emissions; Atmosphere; 10951. SP305-2.

- NIKE missile; Papers available; Stereology; Toy safety; X-ray units; Computer power; Computer standard; Corrosion; Environment; Health care; Housing production; I-R 100 awards; *DIM/NBS* 60, No. 11, 1-24 (1976). **SP305-8.**
- Nile Blue A and derivatives; Nile Blue oxazole; Nonaqueous acid-base spectrophotometry; Nonaqueous acid-base titrations; Phenyl diethyl Nile Blue; *p*-tolyl di-*n*-propyl Nile Blue base; Relative strengths of indicator dyes; Solvatochromism; 9660. **SP305-1.**
- Nile Blue oxazole; Nonaqueous acid-base spectrophotometry; Nonaqueous acid-base titrations; Phenyl diethyl Nile Blue; *p*-tolyl di-*n*-propyl Nile Blue base; Relative strengths of indicator dyes; Solvatochromism; Acid-base indicators; 9660. **SP305-1.**
- NILECJ; Performance standard; Privacy; Scramblers; Speech quality; Speech scramblers; Survey; Testing; Voice privacy; Intelligibility; LESL; 14714. **SP305-6.**
- NILECJ Standard; Receiver definitions; Receiver measurement techniques; FM receivers; Law enforcement equipment; Minimum performance requirements; 16293. **SP305-8.**
- NILECJ Standard; Receiver definitions; Receiver measurement techniques; FM receivers; Law enforcement equipment; Minimum performance requirements; 16297. **SP305-8.**
- NILECJ Standard; Receiver definitions; Receiver measurement techniques; FM receivers; Law enforcement equipment; Minimum performance requirements; 16303. **SP305-8.**
- Nilpotent group; Normalizer; Solvable group; Character; Cosets; Matrix representation; *J.76B* Nos. 1 and 2, 45-50 (1972). **SP305-4.**
- NIM; Standards; Instrumentation; Instruments; Modules; Nuclear; *TN556*. **SP305-2.**
- NIM System; Decoupling;  $F_T$ ; High frequency; Instability; Low frequency; 10449. **SP305-1.**
- Ni-marging steels; Normalizing; Stainless steels; Structural steels; Surface hardening; Tempering; Tool steels; Annealing; Case hardening; Chemical composition; Hardening; Heat treatment; *Mono*, 88. **SP305.**
- Nine-point relaxation formulas; Predictor-corrector method; Two-tube electrostatic lens; Calculation of electric fields; Calculation of electron trajectories; Electron lens; *J.76A* No. 1, 27-35 (1972). **SP305-4.**
- NiO; Optical density-of-states; Photoconductivity; Photoemission; Polarons; Amorphous semiconductors; Anderson transition; Augmented plane wave method (APW); Chalcogenide glasses; Electronic density of states; Franck-Condon principle; *SP323*, pp. 493-503. **SP305-4.**
- Niobate; Niobium; Oxide; Single crystal; Tetramolybdate; X-ray structure determination; Alkali metal; Bronze; Heptagonal holes; Hexagonal tungsten bronze; Lattice image; Molybdate; Molybdenum; *SP364*, pp. 15-27. **SP305-4.**
- Niobates; Tantalates; Alkali ions; Ionic conductors; 14185. **SP305-6.**
- Niobia; Polymorphism; Zirconia;  $ZrO_2 \cdot 12Nb_2O_5$ ; Electron microscopy; Lattice images; 12059. **SP305-3.**
- Niobium; Alloys; Iron; Magnetic moments; Molybdenum; Mössbauer effect; 14487. **SP305-6.**
- Niobium; Beryllium; Carbon; Integral cross section tests; Iron; *SP425*, pp. 169-172. **SP305-7.**
- Niobium; Electrical resistivity; Emission; High-speed measurements; High temperature; Melting point; 13332. **SP305-5.**
- Niobium; Normal spectral emittance; Surface roughness; High temperature; Melting; 13860. **SP305-6.**
- Niobium; Oxide; Single crystal; Tetramolybdate; X-ray structure determination; Alkali metal; Bronze; Heptagonal holes; Hexagonal tungsten bronze; Lattice image; Molybdate; Molybdenum; Niobate; *SP364*, pp. 15-27. **SP305-4.**
- Niobium; Palladium (Pd); Platinum; Rhodium; Rhodium; Rigid band approximation; Tantalum (Ta); Thermal conductivity; Thermoelectric power; Transition metal; Transport properties; Tungsten (W); Chromium; *SP323*, pp. 685-690. **SP305-4.**
- Niobium; Platinum; Silver; Tantalum; Tin; Aluminum; Beryllium; Cobalt; Copper; Compilation; Electrical resistivity; Gold; Indium; Iron; Lead; Low temperature; Magnesium; Molybdenum; Nickel; *TN365*. **SP305-1.**
- Niobium; Plutonium; Potassium; Praseodymium; Promethium; Rhenium; Rubidium; Sodium; Surface diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; *J. Phys. Chem. Ref. Data* 4, No. 1, 177-250 (1975). **SP305-7.**
- Niobium; Radiance temperature; Spectral emittance; Surface roughness; Thermodynamic properties; Associated vapors; Graphite; Heat capacity; Molybdenum; Molybdenum pentafluoride; *NBSIR* 73-280. **SP305-6.**
- Niobium; Radiance temperature; Surface roughness; High-speed measurements; High temperature; Melting; *J.77A* No. 3, 333-339 (1973). **SP305-5.**
- Niobium; Reference Theta-Pinch Reactor; Tritium breeding; Bondarenko; F-factors; Fusion reactors; *SP425*, pp. 722-728. **SP305-7.**
- Niobium; Rubidium; Spectra; Strontium; Ultraviolet; Wavelengths; Yttrium; Zirconium; Molybdenum; 12672. **SP305-4.**
- Niobium; Spectra; Ultraviolet; Wavelengths; 13083. **SP305-5.**
- Niobium; Spectra; Ultraviolet; Wavelength; Zirconium; Molybdenum; 16425. **SP305-8.**
- Niobium; Superconducting device; Thin films; Tunnel junction Josephson effect; 11407. **SP305-2.**
- Niobium; Superconductors; Thermal radiation shields; Total emissivity; 13371. **SP305-5.**
- Niobium; Superfluid helium; Thermal conductivity; Aluminum; Copper; Heat transfer; Kapitza conductance; 13569. **SP305-5.**
- Niobium; Thermal radiation properties; Thermodynamics; Electrical resistivity; Emission; Heat capacity; High-speed measurements; High temperature; *J.75A* No. 6, 565-571 (1971). **SP305-3.**
- Niobium carbide; Ordering effects; Superlattice; Tantalum carbide; Transition metal compounds; Vanadium carbide; Carbides; Electron diffraction; Interpretation of ordering effect; *SP364*, pp. 583-590. **SP305-4.**
- Niobium carbide; Reaction mechanism; Solid state; Tantalum carbide; Tungsten carbide; Vanadium carbide; Carbide; Crystal structure; Molybdenum carbide; *SP364*, pp. 561-566. **SP305-4.**
- Niobium compounds; Scandium compounds; Tantalum compounds; Titanium compounds; Vanadium compounds; Yttrium compounds; Zirconium compounds; Enthalpy; Entropy; Gibbs energy of formation; Hafnium compounds; Heat of formation; *TN270-5*. **SP305-3.**
- Niobium deutride; Phonons; Alloy; Electronic structure; Interstitial; Lattice dynamics; 15389. **SP305-7.**
- Niobium pentoxide; Phase equilibria; System; Tungsten trioxide; Crystal structure; *J.70A4-404*, 281-303 (1966). **SP305.**
- Niobium pentoxide; Phase relationships; Pressure; Temperature; *J.77A* No. 6, 705-711 (1973). **SP305-5.**
- Niobium pentoxide; Preparation; Ranges of homogeneity; Stability; Systems; Analysis; Hybrid phase; Intergrowth phase; *SP364*, pp. 63-86. **SP305-4.**
- Niobium tungsten system; Wadsley defects; Annealing; equilibria; Electron microscopy; 12263. **SP305-3.**
- Niobium-titanium oxides; Niobium-tungsten oxides; Tungsten oxides; Wadsley defects; Crystallographic shear plane; Crystal structure; Electron diffraction; Electron microscopy; Lattice images; Lithium ferrites; Lithium lutetium titanate; *SP364*, pp. 87-111. **SP305-4.**
- Niobium-tungsten oxides; Tungsten oxides; Wadsley defects; Crystallographic shear planes; Crystal structure; Electron microscopy; 12263. **SP305-3.**

fraction; Electron microscopy; Lattice images; Lithium ferrites; Lithium lutetium titanate; Niobium-titanium oxides; *SP364*, pp. 87-111. **SP305-4.**

Niobium-zirconium alloy; Specific heat; Thermodynamics; Electrical resistivity; Emission; High-speed measurements; High temperature; *J.77A No. 1, 45-48 (1973)*. **SP305-5.**

Niobium-94; Radioactivity standardization; Sodium-22; Sum coincidence counting; Yttrium-88; Aluminum-26; Bismuth-207; Cobalt-60; *14299*. **SP305-6.**

IRRA; Photonic Data Center; Central computer; Computer programs; Data manipulation; Digital data; Mass storage; *TN903*. **SP305-8.**

SI units in illuminating engineering; Exitance; Illumination; Luminance; Lux; Metric units; *10295*. **SP305-1.**

Nitrite; Repassivation; Stress corrosion; Chloride; Ellipsometry; Low carbon steel; *14882*. **SP305-7.**

Nitrate; Polarography; Raman; Combining ratio; Complex; Infrared; Ion selective electrode; Lanthanum; *11355*. **SP305-2.**

Nitrates; Nitrites; Phase transformation; X-ray diffraction data; Carbonates; Crystal structure transformation; *NSRDS-NBS53*. **SP305-7.**

Nitrates; Nitrites; Standard reference data; Surface tension; Viscosity; Data compilation; Density; Electrical conductance; Molten salt mixtures; *J. Phys. Chem. Ref. Data 1, No. 3, 581-746 (1972)*. **SP305-6.**

Nitrates; Nitrites; Thermal decomposition; Thermodynamic functions; *J. Phys. Chem. Ref. Data 1, No. 3, 747-772 (1972)*. **SP305-6.**

Nitrates; PH; Repassivation kinetics; Stainless steel; Stress corrosion cracking; Titanium alloys; Chloride; Crevice corrosion; Dissolved oxygen; Ellipsometry; *13769*. **SP305-5.**

Nitric acid; Nitric oxide; Nitrogen dioxide; Oxygen atom; Ozone; Photochemistry; Stratosphere; Atmosphere; Carbon monoxide; Chemical kinetics; Data evaluation; Hydroxyl; *13441*. **SP305-5.**

Nitric acid; Nitryl chloride; Ozone; RRMK; Ammonia; Combination; Cyanogen; Decomposition kinetics; *14046*. **SP305-6.**

Nitric acid; Perchloric acid; Solvent extraction; Group VIII; HDEHP; Hydrochloric acid; IB and IIB elements; *11705*. **SP305-2.**

Nitric acid; Perchloric acid; Solvent extraction; Group IIIB-VIIB elements; HDEHP; Hydrochloric acid; Lanthanides; *11425*. **SP305-2.**

Nitric acid; Radio astronomy; Rotational transitions; Telescope search; Fulvene; Interstellar molecules; *14403*. **SP305-6.**

Nitric oxide; Nitrogen; Quencher; Air; Automotive exhaust emission; Detection; Fluorescence; *14991*. **SP305-7.**

Nitric oxide; Nitrogen; Spectroscopy; X-ray photoelectron; Chemical shifts; Chemisorption; ESCA; *14271*. **SP305-6.**

Nitric oxide; Nitrogen dioxide; Nitrosyl chloride; Vacuum ultraviolet; Fluorescence; *9416*. **SP305.**

Nitric oxide; Nitrogen dioxide; Oxygen atom; Ozone; Photochemistry; Stratosphere; Atmosphere; Carbon monoxide; Chemical kinetics; Data evaluation; Hydroxyl; Nitric acid; *13441*. **SP305-5.**

Nitric oxide; Nitrogen dioxide; Oxygen; Oxygen atoms; Rate constants; Kinetics; *9848*. **SP305-1.**

Nitric oxide; Nitrogen dioxide; Sulfur dioxide; Air pollution; Carbon monoxide; Gas analysis; Gas standards; *15447*. **SP305-7.**

Nitric oxide; Nitrogen dioxide; Sulfur dioxide; Air pollution; Carbon monoxide; Gas analysis; Gas standards; *15972*. **SP305-8.**

Nitric oxide; Nitrous oxide; Total scattering cross section; Electron impact; Electron scattering resonances; Exponential attenuation; Low energy; Negative ions; *14983*. **SP305-7.**

Nitric oxide; Oxygen; Photoelectron spectroscopy; Carbon monoxide; Chemical shifts; Chemisorption; ESCA; *14562*. **SP305-6.**

Nitric oxide; Oxygen; Rate constants; Combination; Kinetics; Methyl; *15328*. **SP305-7.**

Nitric oxide; Oxygen; Tetrafluoroethylene; Transverse excitation laser; 2-methyl propene; Carbon isotopes; Carbonyl fluoride; CO<sub>2</sub> laser photolysis; Difluorocarbene; Difluorodichloromethane; Isotope ratio; *16657*. **SP305-8.**

Nitric oxide; Oxygen; Threshold voltage; Tungsten; Binding states; Carbon monoxide; Chemisorption; Cross section; Electronic desorption; Electron impact; Ion energy distribution; *10453*. **SP305-1.**

Nitric oxide; O<sub>2</sub>( $\Delta$ ); Ozone; Vibrationally energy; Kinetics; Laser enhanced reactions; *14385*. **SP305-6.**

Nitric oxide; Photodetachment; Electron affinity; Molecular constants; Negative ions; *12883*. **SP305-4.**

Nitric oxide; Photoionization; Rydberg series; Autoionization; Mass spectrometry; *10011*. **SP305-1.**

Nitric oxide; Quenching; Sulfur dioxide; Emission gas; Exhaust; Fluorescence; *16444*. **SP305-8.**

Nitric oxide; Rydberg series; Absorption spectrum; Identification atlas; *JPCRD 5, No. 2, 309-318 (1976)*. **SP305-8.**

Nitric oxide; Surface; Surface diffusion; Tungsten; Work function; Adsorption; Chemisorption; Desorption; Dissociation; Field emission microscopy; Kinetic; *9421*. **SP305.**

Nitric oxide; Synchrotron; Ultraviolet machine; Effects of metrication; Environmental data; Fire research (history of); Fire retardants; Flammability; Frequency measurements; Housing industry; Josephson junction; *DIM/NBS 58, No. 6, 121-142 (1974)*. **SP305-6.**

Nitric oxide; Tungsten; Decomposition; *14887*. **SP305-7.**

Nitric oxide; Vibrational energy transfer; Infrared lasers; Laser pumping of molecules; *13680*. **SP305-5.**

Nitric oxide; Zeeman effect; Air pollution; Infrared spectroscopy; Lasers; *13079*. **SP305-5.**

Nitride strengthening; Nitrogen ferrite; Polycrystalline; Solid solution strengthening; Tensile tests; Carbide strengthening; Hydrogen-purified iron; *10327*. **SP305-1.**

Nitrides; Nitrogen; Thermodynamic properties; Vacuum; Vacuum measurement; Barium nitride; Dissociation equilibria; *J.74A No. 1, 45-49 (1970)*. **SP305-2.**

Nitrides; Oxides; RF sputtering; Strength; Surface finish; Twins; Carbides; Glass, ion beam sputtering; *SP348*, pp. 171-187. **SP305-4.**

Nitrides; Oxides; Strengths; Carbides ceramics; Fracture; Grain size; Grinding; Hardness; Mechanical testing; *SP348*, pp. 365-375. **SP305-4.**

Nitrides; Oxides of nuclear materials; Borides; Carbides; Diffusion rates; *10909*. **SP305-2.**

Nitriding; Precision equipment; Surface hardened; Temporal dimensional stability; Ultrastability; Gage blocks; Maraging steel; *11596*. **SP305-2.**

Nitroliotractic acid; Clinical Standard Reference Materials; Fraction collecting; Gas chromatography; Interactive gels; Liquid chromatography design; *TN589*. **SP305-3.**

Nitroliotractic acid; Water pollution; Detergent; *12713*. **SP305-4.**

Nitroliotractic acid; NTA; Water analysis; Water pollution; Chemical analysis; *14622*. **SP305-6.**

Nitrite; Repassivation; Stress corrosion; Chloride; Ellipsometry; Low carbon steel; Nitrate; *14882*. **SP305-7.**

Nitrite anion; Nitrogen dioxide; Photodetachment; Photoionization; Vacuum-ultraviolet photolysis; Alkali metal atoms; Electron bombardment; Infrared spectrum; Matrix isolation; *11697*. **SP305-2.**

Nitrites; Phase transformation; X-ray diffraction data; Carbonates; Crystal structure transformation; Nitrates; *NSRDS-NBS53*. **SP305-7.**

Nitrites; Standard reference data; Surface tension; Viscosity; Data compilation; Density; Electrical conductance; Molten salt mixtures; Nitrates; *J. Phys. Chem. Ref. Data 1, No. 3, 581-746 (1972)*. **SP305-6.**

- Nitrites; Thermal decomposition; Thermodynamic functions; Nitrites; *J. Phys. Chem. Ref. Data* 1, No. 3, 747-772 (1972). SP305-6.
- Nitrobenzene; Optical properties of liquids; Dielectric liquid; Electrical properties of liquids; Electro-optics; High voltage measurement; Kerr effect; Laser applications; 13918. SP305-6.
- Nitrobenzene; Oxidation; Pararosaniline cyanide; Radiochromic dyes; Triphenylmethane dyes; Dosimetry; Dyes; Gamma rays; 13533. SP305-5.
- Nitrobenzene; Peak reading voltmeter; Space charge; Electric field measurement; Electro-optic Kerr effect; High voltage measurement; Impulse measurement; Kerr constant; Liquid insulants; *NBSIR* 73-403. SP305-6.
- Nitrobenzene; Pulse measurements; Space charge; Automated measurements; Dielectrics; Dividers; Electrical measurement; Electric fields; Electro-optics; High voltage measurements; Insulating fluids; Kerr effect; *NBSIR* 75-774. SP305-7.
- Nitrobenzene; Pulse measurements; Water; Dielectric fluids; Electrical properties of fluids; High voltage measurements; Kerr coefficient; Kerr effect; *NBSIR* 74-544. SP305-6.
- Nitrobenzene; Pulse voltage measurement; Space charge; Water; Calibration; Electrical measurements; High voltage measurements; Insulating fluids; Kerr coefficient; *NBSIR* 74-564. SP305-6.
- Nitrobenzene; Space charge; Dielectric liquids; Electric field mapping; High voltage measurements; Kerr effect; 14445. SP305-6.
- Nitrobenzene; Space charge; Electric fields; Electrical measurements; High voltage measurements; Insulating liquids; Kerr effect; 14308. SP305-6.
- Nitrobenzene; Styrene; Sulfonation; Sulfuric acid; Copolymer; Divinylbenzene; Homogeneity; Ion-exchange; Kinetics; 10639. SP305-1.
- Nitroethane; Sedimentation; Critical point; Critical solution point; Densimeter, magnetic; Diffusion, pressure; Gradient, concentration; Gradient, density; Gravity, effects of; 3-methylpentane; Mixture; Liquid; 14944. SP305-7.
- Nitroethane; Surface tension; 3-methylpentane; Binary liquid mixtures; Capillary rise; Coexistence curve; Critical phenomena; 11666. SP305-2.
- Nitroethane; Thermal expansion; 3-methylpentane; Consolute point; Critical exponent  $\alpha$ ; Critical phenomena; Critical solution point; Density; Gravity effects; Mixture, binary; Mixture, liquid; 15691. SP305-7.
- Nitroethane; 3-methylpentane; Coexistence curve; Critical phenomena; Densitometer; Magnetic suspension; 11201. SP305-2.
- Nitrogen; Adsorption; Charcoal; Hydrogen; Isotherms; Methane; Mixture adsorption; 10759. SP305-1.
- Nitrogen; Adsorption; Hydrogen; Kinetics; Low temperature; Methane; 11351. SP305-2.
- Nitrogen; Air; Alpha particles; Argon; Average energy; Ion pair; Measurement; 10325. SP305-1.
- Nitrogen; Arc plasma; Equilibrium; LTE; 14021. SP305-6.
- Nitrogen; Electrons, ions; Molecules; 15298. SP305-7.
- Nitrogen; Henry's constants; Liquid-vapor phase equilibria; Methane; 15519. SP305-7.
- Nitrogen; Mercury vapor; Noble gases; Solubility-enhancement; Steam; Van der Waals' equation; Ammonia; Dense gases; Equation of state; Hydrogen; 11742. SP305-2.
- Nitrogen; Nitrogen and ambient air; Spark excitation; Alloys, high-temperature; Ambient air; Argon; Atmospheres of argon; High-temperature alloys; 9235. SP305.
- Nitrogen; Nitrogen oxides; Oxygen; Sulfur; Sulfur hydrides; Sulfur oxides; Bibliography; Carbon oxydisulfides; Carbon sulfides; Chemical kinetics; Gas phase; Hydrogen; SP362. SP305-4.
- Nitrogen; Nitrogen oxides; Oxygen; Ozone; Bibliography; Chemical kinetics; Gas phase; *NBS-OSRDB-71-2 (COM-71-00841)*. SP305-3.
- Nitrogen; Nonanalytic; Oxygen; Vapor pressure; Critical point; Equation; Formula; Liquid; *J.73A No. 5*, 487-491 (1969). SP305-1.
- Nitrogen; Nonequilibrium; Spectral-intensity; Arc; 11465. SP305-2.
- Nitrogen; Nonspherical interactions; Oxygen; Second virial coefficient; Thermal conductivity coefficient; Thermal diffusion factor; Viscosity coefficient; Critically evaluated data; Dilute polyatomic gas; *J. Phys. Chem. Ref. Data* 2, No. 4, 735-756 (1973). SP305-6.
- Nitrogen; Nuclear magnetic resonance; Nuclear quadrupole; Azides; 9716. SP305-1.
- Nitrogen; Nuclear track technique; Orchard leaves; Steel; Track etch method; Uranium; Boron; Glasses; Image analyzing system; Liver; Microscopy; Neutron activation analysis; 12688. SP305-4.
- Nitrogen; Nuclear track technique; Proton tracks; Activation analysis; Cellulose nitrate detectors; 12689. SP305-4.
- Nitrogen; Nucleate; Boiling; Cryogenic; Film; Forced convection; Hydrogen; 9740. SP305-1.
- Nitrogen; Olefins; Rates; Spectrometry; Atoms; Mass; Mechanisms; 9329. SP305.
- Nitrogen; Orchard leaves; Proton tracks; Standard reference materials; Bovine liver, cellulose nitrate; Image analyzing system; Microscope; Neutron activation analysis; 1470. SP305-6.
- Nitrogen; Oxygen; Absorption coefficient; Argon; Carbonyl monoxide; Far infrared; Hydrogen; Liquefied gases; Methane; *TN390*. SP305-2.
- Nitrogen; Oxygen; Argon; Calibration; Cryogenic; Flowmeter measurement; 14406. SP305-6.
- Nitrogen; Oxygen; Argon; Diffusion coefficient; Gas chromatography; Helium; Krypton; *J.73A No. 2*, 207-211 (1969). SP305-1.
- Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; Tables; Temperatures; Uncertainties; Volume; Volume correction factor; Argon; Compressed liquid; Density; Graph; Liquid; *TN361, Revised October 1972*. SP305-5.
- Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; Temperature; Uncertainties; Volume; Argon; Density; *TN361*. SP305-1.
- Nitrogen; Oxygen; Phosphorous; Silicon; Sulfur; Boron; Carbon; Light elements; Metals; *TN524*. SP305-2.
- Nitrogen; Oxygen; Photoelectron spectra; Relaxation energy; Surfaces; Tungsten; Ultraviolet photoemission; Valence band; Virgin states;  $\alpha$  states;  $\beta$  states; Adsorption; Carbon; Carbonyl monoxide; Chemical bonding; Chemisorption; Density dependent transitions; 16419. SP305-8.
- Nitrogen; Oxygen; Photon activation analysis; Review; Sensitivities; Bremsstrahlung; Carbon; Electron accelerators; 1205. SP305-3.
- Nitrogen; Oxygen; Properties of fluids; Review; Thermodynamic; Argon; Bibliography; Compilations; Critical evaluation; Cryogens; Experimental measurement; Fluorine; Helium; Hydrogen; Methane; 13848. SP305-6.
- Nitrogen; Oxygen; Rare gases; Thermal conductivity; Thermal diffusion; Viscosity; Carbon dioxide; Diffusion; Dispersion coefficients; Methane;  $m-6-8$  potential; 12862. SP305-4.
- Nitrogen; Oxygen; Single crystal; Sticking coefficient; Thermionic emission; Work function; Adsorption; Carbon monoxide; Chemisorption; Desorption; Electron reflection; 1035. SP305-1.
- Nitrogen; Oxygen; Surface; Tungsten; Adsorption; Chemisorption; Cross section; Desorption; Electron stimulated desorption; Hydrogen; Nickel; 12332. SP305-3.
- Nitrogen; Oxygen; Tables; Thermal conductivity coefficient; Transport property; Viscosity coefficient; Xenon; Argon; Correlation; Critical data evaluation; Critical point; Dense gas and liquid; *J. Phys. Chem. Ref. Data* 3, No. 4, 979-1010 (1974). SP305-6.



Nitrogen; Oxygen; Thermodynamic properties; Air; Argon; Hydrogen; Ionized gases; 16167. SP305-8.

Nitrogen; Oxygen; Potassium; Sodium; Aluminum; Argon; Atomic transition probabilities; Beryllium; Boron; Carbon; Chlorine; Helium; Hydrogen; Lithium; Magnesium; 16164. SP305-8.

Nitrogen; Oxygen; Transport coefficients; Lennard-Jones; Kihara; Exp: 6; Morse potential functions; Eucken correction; Correlation; Dilute gases; TN350. SP305.

Nitrogen; Oxygen; Vacuum-fusion analysis; Gases in metals; Hot extraction; Hydrogen; Kjeldahl; 12788. SP305-4.

Nitrogen; Oxygen in titanium; Titrimetry; Absorption and fluorescence spectrophotometry; Arsenic; Atomic absorption; Beryllium; DTA studies; Dysprosium in a glass; Flame emission; Gases in metals; Gravimetry; Homogeneous precipitation; TN424. SP305-1.

Nitrogen; Pair potentials; Temperature perturbation theory; Argon; Compressibility factor; Dense fluids; Equation of state; Molecular dynamics; Molecular interactions; 12453. SP305-4.

Nitrogen; Particle-wall interaction; Solid-vapor; Tube; Two-phase; Boundary layer; Cryogenic; Heat transfer; Hydrogen; Low pressure; 11505. SP305-2.

Nitrogen; Phase equilibria; Ternary system; Argon; Binary system; Excess Gibbs energy; Liquid-vapor; Methane; 13205. SP305-5.

Nitrogen; Physical adsorption; Synthetic zeolite; Zeolite; Hydrogen gas; Low temperature; Methane; 9841. SP305-1.

Nitrogen; Physical adsorption; Tungsten; Work function; Adsorption; 16460. SP305-8.

Nitrogen; Plasma line broadening; Spectral lines; Stark broadening; Stark shifts; Stark widths; 16406. SP305-8.

Nitrogen; Polycrystals; Solution hardening; Upper yield point; Zone-refined iron; Flow stress; Impurity softening; Lattice solution; Lower yield stress; 11946. SP305-3.

Nitrogen; Prandtl number; Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; TN648. SP305-6.

Nitrogen; Propane; Butanes; Clausius-Mossotti function; Density; Dielectric constant; Ethane; Interpolation function; LNG components; Methane; Mixtures; 14164. SP305-6.

Nitrogen; Pump; Pump design; Pump performance; Centrifugal; Helium; 12176. SP305-3.

Nitrogen;  $P,V,T$ ; phase boundary; Saturation density; Vapor pressure; Density; Liquids; 12186. SP305-3.

Nitrogen; Quencher; Air; Automotive exhaust emission; Detection; Fluorescence; Nitric oxide; 14991. SP305-7.

Nitrogen; Radio frequency; Total mass; Gauging; Hydrogen; 13664. SP305-5.

Nitrogen; Rate constant; Vacuum ultraviolet; CH; Flash photolysis; Hydrogen; Kinetic spectroscopy; Methane; 9597. SP305-1.

Nitrogen; Rhenium; Chemisorption; Field emission; 9340. SP305.

Nitrogen; Rhenium; Sticking coefficient; Surface coverage; Adsorption kinetics; 9394. SP305.

Nitrogen; Rhenium; Sticking coefficient; Tungsten; Carbon monoxide; High temperature; Isotopic mixing; Molybdenum; 11377. SP305-2.

Nitrogen; Rhenium; Sticking coefficient; Tungsten; Carbon monoxide; Chemisorption; Isotopic mixing, flash desorption; Molybdenum; 11484. SP305-2.

Nitrogen; Rotation-vibration interactions; Band strength; Franck-Condon factor; 11125. SP305-2.

Nitrogen; Saturated liquid; Tables; Apparatus; Density; Experimental; Magnetic suspension; Methane; 16645. SP305-8.

Nitrogen; Saturated liquid densities; Clausius-Mossotti function; Dielectric constant; Dielectric virial coefficients; Molar polarizability; 14560. SP305-6.

Nitrogen; Second layer migration; Tungsten; Carbon monoxide; Field emission; Hydrogen; 10945. SP305-2.

Nitrogen; Second virial coefficient; Vapor pressure; Velocity of sound; Critically evaluated data; Critical point; Density; Enthalpy; Entropy; Equation of state; Heat capacity; Ideal gas properties; Latent heat; J. Phys. Chem. Ref. Data 2, No. 4, 757-922 (1973). SP305-6.

Nitrogen; Sensitivity calculation; Air transport; Cross sections; Neutrons; SP425, pp. 436-439. SP305-7.

Nitrogen; Shocks; Two-phase flow; Choking; Hydrogen; TN359. SP305-1.

Nitrogen; Solid plug; Solid-vapor mixture; Sub-triple point; Tubes; Flow; Hydrogen; 11008. SP305-2.

Nitrogen; Sound absorption; Argon; Bulk viscosity; Density expansion; Methane; Modified Enskog theory; Molecular correlations; 16483. SP305-8.

Nitrogen; Spectroscopy; X-ray photoelectron; Chemical shifts; Chemisorption; ESCA; Nitric oxide; 14271. SP305-6.

Nitrogen; Spectrum; Vacuum ultraviolet; Atomic spectrum; Calculated wavelengths; 9339. SP305.

Nitrogen; Ternary system; Adsorption; Hydrogen; Kinetics; Methane; 11748. SP305-2.

Nitrogen; Thermodynamic properties; Vacuum; Vacuum measurement; Barium nitride; Dissociation equilibria; Nitrides; J.74A No. 1, 45-49 (1970). SP305-2.

Nitrogen; Transition probability; Carbon monoxide;  $f$ -value; 12799. SP305-4.

Nitrogen; Transport properties; Viscosity; Argon; Dense gases; Helium; 12540. SP305-4.

Nitrogen; Tungsten; Adsorption; Binding states; Chemisorption; Desorption; Kinetics; 9916. SP305-1.

Nitrogen; Tungsten; Binding states; Chemisorption; Electron impact; Flash desorption; 11485. SP305-2.

Nitrogen; Tungsten; Tungsten (100) plane; Work function; Chemisorption; Flash desorption; Hydrogen; 12125. SP305-3.

Nitrogen; Two-phase flow; Choking; Critical; Hydrogen; 11259. SP305-2.

Nitrogen; Yield stress; Cross-slip; Ductility; Interstitial impurity; Iron; 11573. SP305-2.

Nitrogen afterglow; Atom recombination; Energy transfer; Lewis-Rayleigh afterglow; N-atoms;  $N_2$  first positive bands; 14010. SP305-6.

Nitrogen afterglow; Nitrogen atoms; Vibrational relaxation electronic quenching; Energy transfer; First positive  $N_2$  bands; Lewis-Rayleigh afterglow; 14007. SP305-6.

Nitrogen and ambient air; Spark excitation; Alloys, high-temperature; Ambient air; Argon; Atmospheres of argon; High-temperature alloys; Nitrogen; 9235. SP305.

Nitrogen arc; Radiance; Radiant sources; Scattering; Instrument function; Iterative computations; 11662. SP305-2.

Nitrogen atom; Nitrogen molecule; Nitrogen oxides; Oxygen atom; Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; SP371. SP305-5.

Nitrogen atom; Nitrogen molecule; Nitrogen oxides; Oxygen atom; Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; SP371-1. SP305-7.

Nitrogen atoms;  $O_2(^1\Delta_g)$ ; Oxygen atoms; Quenching reactions; Upper atmosphere; Hydrogen atoms; 12090. SP305-3.

Nitrogen atoms; Quenching; Vibrational relaxation; Active nitrogen; Afterglow; Atom recombination; 10321. SP305-1.

Nitrogen atoms; Spin exchange cross sections; Spin relaxation time; Electron paramagnetic resonance; Flow system kinetics; Hydrogen atoms; 9289. SP305.

Nitrogen atoms; Spin exchange cross sections; Spin relaxation time; Electron paramagnetic resonance; Flow system kinetics; 10516. SP305-1.

- Nitrogen atoms; Vibrational relaxation electronic quenching; Energy transfer; First positive  $N_2$  bands; Lewis-Rayleigh afterglow; Nitrogen afterglow; 14007. **SP305-6.**
- Nitrogen cross sections; Concrete and steel shield; Gamma-ray spectrum unfolding; Integral measurements; Neutron spectrum unfolding; NE-213 detector; *SP425*, pp. 161-164. **SP305-7.**
- Nitrogen dioxide; Nitrosyl chloride; Vacuum ultraviolet; Fluorescence; Nitric oxide; 9416. **SP305.**
- Nitrogen dioxide;  $NO_2$  detection; Quantitative detection; Infrared detection; Laser magnetic resonance; Modulated absorption; 16623. **SP305-8.**
- Nitrogen dioxide; Oelfin; Ozone; Rate constant; Kinetics; Mass spectrometry; 14956. **SP305-7.**
- Nitrogen dioxide; Oxygen; Oxygen atoms; Rate constants; Kinetics; Nitric oxide; 9848. **SP305-1.**
- Nitrogen dioxide; Oxygen atom; Ozone; Photochemistry; Stratosphere; Atmosphere; Carbon monoxide; Chemical kinetics; Data evaluation; Hydroxyl; Nitric acid; Nitric oxide; 13441. **SP305-5.**
- Nitrogen dioxide; Oxygen atoms; Rate constants; Stratosphere; Kinetics; 13247. **SP305-5.**
- Nitrogen dioxide; Ozone; Particulate analysis; Sulfur dioxide; Air pollution analysis; Carbon monoxide; Fire research; Microchemical analysis; *TN585*. **SP305-4.**
- Nitrogen dioxide; Ozone; Rate constant; Stratosphere; Air pollution; 14539. **SP305-6.**
- Nitrogen dioxide; Particulate matter; Photochemical oxidants; Standards; Sulfur dioxide; Carbon monoxide; Hydrocarbons; Measurement; 16121. **SP305-8.**
- Nitrogen dioxide; Photodetachment; Photoionization; Vacuum-ultraviolet photolysis; Alkali metal atoms; Electron bombardment; Infrared spectrum; Matrix isolation; Nitrite anion; 11697. **SP305-2.**
- Nitrogen dioxide; Photodissociation; Vacuum ultraviolet nitrosyl chloride; Absorption spectra; Fluorescence excited states; 10669. **SP305-1.**
- Nitrogen dioxide; Rotational assignment; Spin-rotation splittings; Band center; Intensities; Laser magnetic resonance; 15788. **SP305-8.**
- Nitrogen dioxide; Spin splitting; Anharmonic constant; Coriolis resonance; High resolution; Infrared spectrum; 15253. **SP305-7.**
- Nitrogen dioxide; Sulfur dioxide; Air pollution; Carbon monoxide; Gas analysis; Gas standards; Nitric oxide; 15447. **SP305-7.**
- Nitrogen dioxide; Sulfur dioxide; Air pollution; Carbon monoxide; Gas analysis; Gas standards; Nitric oxide; 15972. **SP305-8.**
- Nitrogen dioxide,  $\nu_2$  band; Upper state constants; Vibration-rotation interaction constants; Equilibrium structure; Ground state constants; Infrared spectrum; Nitrogen dioxide,  $2\nu_1$  band; 15694. **SP305-7.**
- Nitrogen dioxide,  $\nu_2$  band; Nitrogen dioxide,  $\nu_3 + \nu_2 - \nu_2$  band; Rotational constants; Spectroscopic constants; Spin-rotation constants; Infrared spectrum; 15753. **SP305-8.**
- Nitrogen dioxide,  $\nu_3 + \nu_2 - \nu_2$  band; Rotational constants; Spectroscopic constants; Spin-rotation constants; Infrared spectrum; Nitrogen dioxide,  $\nu_3$  band; 15753. **SP305-8.**
- Nitrogen dioxide,  $2\nu_1$  band; Nitrogen dioxide,  $\nu_2$  band; Upper state constants; Vibration-rotation interaction constants; Equilibrium structure; Ground state constants; Infrared spectrum; 15694. **SP305-7.**
- Nitrogen ferrite; Polycrystalline; Solid solution strengthening; Tensile tests; Carbide strengthening; Hydrogen-purified iron; Nitride strengthening; 10327. **SP305-1.**
- Nitrogen in steel; Atmospheric contamination; Blank value; Indophenol blue reaction; Kjeldahl digestion technique; Limit of detection; *SP422*, pp. 983-1003 (Aug. 1976). **SP305-8.**
- Nitrogen  $K$  emission spectrum; Resonance radiation; X-ray emission; Electron bombardment; Lead myristate analyzing crystal; M. O. correlation; 12738. **SP305-4.**
- Nitrogen methane; Breakthrough time; Helium; Mixture adsorption; 12160. **SP305-3.**
- Nitrogen molecule; Nitrogen oxides; Oxygen atom; Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; *SP371*. **SP305-5.**
- Nitrogen molecule; Nitrogen oxides; Oxygen atom; Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; *SP371-1*. **SP305-7.**
- Nitrogen molecule; Nitrogen pulsed laser; Pulsed laser emission; Rotational band spectrum; Accurate wavelength measurements; Laser; Molecular nitrogen pulsed laser; 9828. **SP305-1.**
- Nitrogen molecules; Polarization potential; Scattering; Static potential; Vibrational excitation; Close-coupling calculations; Crossed beams; Cross sections; Differential cross sections; Electron scattering; Inelastic scattering; 16533. **SP305-8.**
- Nitrogen molecules; Rotational excitation; Scattering theory; Sudden approximation; Close coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Momentum transfer; 15951. **SP305-8.**
- Nitrogen molecules; Rotational excitation; Scattering theory; Close coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Momentum transfer; 16618. **SP305-8.**
- Nitrogen oxide; Ozone; Particulates; Standard reference materials; Sulfur dioxide; Air pollution; Carbon monoxide; Hydrocarbons; *TN711*. **SP305-4.**
- Nitrogen oxides; Oxidation; Softening point; Sulfur dioxide; Asphalt flux; Carbonyl absorbance; Coating-grade asphalt; Infrared analysis; 10468. **SP305-1.**
- Nitrogen oxides; Oxygen; Ozone; Bibliography; Chemical kinetics; Gas phase; Nitrogen; *NBS-OSRDB-71-2 (COM-7 00841)*. **SP305-3.**
- Nitrogen oxides; Oxygen; Sulfur; Sulfur hydrides; Sulfur oxide; Bibliography; Carbon oxysulfides; Carbon sulfides; Chemical kinetics; Gas phase; Hydrogen; Nitrogen; *SP362*. **SP305-4.**
- Nitrogen oxides; Oxygen atom; Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; Nitrogen molecule; *SP371*. **SP305-5.**
- Nitrogen oxides; Oxygen atom; Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; Nitrogen molecule; *SP371-1*. **SP305-7.**
- Nitrogen oxides; Ozone; Photochemistry; Stratosphere; Water; Atmospheric chemistry; Chemical kinetics; Data evaluation; 13491. **SP305-5.**
- Nitrogen, oxygen; Parahydrogen; Pressure; Saturated liquid; Tables; Temperature; Uncertainties; Volume; Argon; Compressed liquid; Density; Density ratios; Liquid; *TN36 (Revised)*. *Metric Supplement*. **SP305-6.**
- Nitrogen paramagnetic; Periodic acid; Radical; Aromatic azines; Cleavage; Complex; 12095. **SP305-3.**
- Nitrogen pulsed laser; Pulsed laser emission; Rotational band spectrum; Accurate wavelength measurements; Laser; Molecular nitrogen pulsed laser; Nitrogen molecule; 9828. **SP305-1.**
- Nitrogen sorption; Pastes; Water cement; Cement pastes; 975. **SP305-1.**
- Nitrogen spectra; Silicon I; Silicon spectra; Vacuum ultraviolet standards; Atomic spectrum of silicon; Carbon spectra; Electroless discharge; Germanium spectra; 9337. **SP305.**
- Nitrogen spectra, N I, N II, N III; Spectra, N I, N II, N III; Wavelengths, nitrogen spectra N I, N II, N III; *NSRDS-NBS Section 5*. **SP305-7.**
- Nitrogen spectra, Niv-Nvii; Multiplet tables, Niv-Nvii; Spectra Niv-Nvii; Wavelengths, nitrogen spectra Niv-Nvii; Atomic energy levels, Niv-Nvii; *NSRDS-NBS3, Section 4*. **SP305-3.**

- Nitrogen window; Resonances; Vibrational excitation; Doppler broadening; Electronic excitation; Low energy elastic electron scattering; Low energy inelastic electron scattering; Lyman-Birge-Hopfield bands; Metastable states; Molecular nitrogen; 9776. SP305-1.
- Nitrogen-methane system; Binary mixture; Excess Gibbs energy; Experimental phase equilibria data; Heat of mixing; Liquid-vapor equilibria; 14870. SP305-7.
- Nitrogen-15; Nuclear magnetic resonance; Relative signs; Double resonance; Isotopes; 10568. SP305-1.
- Nitrogen-15 coupling constants; Nuclear Overhauser effects; P.m.r. spectroscopy; 6-amino-6-deoxy-D-glucose-6-<sup>15</sup>N derivatives; <sup>13</sup>C n.m.r. spectroscopy; <sup>19</sup>F n.m.r. spectroscopy; Inter-nuclear double resonance; 12444. SP305-4.
- Nitrogen-15 nuclear magnetic resonance spectroscopy; Nuclear Overhauser effects; Amino sugars; Chemical shifts; Magnitude spectra; 15236. SP305-7.
- Nitromethane; Heat capacity; 10840. SP305-1.
- Nitromethane density; Nitromethane vapor pressure; Vapor and density pressure; Density and vapor pressure; 9582. SP305-1.
- Nitromethane vapor pressure; Vapor and density pressure; Density and vapor pressure; Nitromethane density; 9582. SP305-1.
- Nitrophenols; Substituted phenols; Dissociation constant; 711A5-469, 385-389 (1967). SP305.
- Nitrosamines; Trace analysis; Carcinogens; Food; SP422, pp. 727-736 (Aug. 1976). SP305-8.
- Nitrosyl chloride; Vacuum ultraviolet; Fluorescence; Nitric oxide; Nitrogen dioxide; 9416. SP305.
- Nitrous acid; Quadrupole coupling constants; Structure; Dipole moment; Microwave spectra; 9647. SP305-1.
- Nitrous oscillator strength; Photoabsorption; Electron energy loss; Energy absorption; N<sub>2</sub>O; 15751. SP305-8.
- Nitrous oxide; Oscillator strengths; Far uv absorption; Inelastic electron scattering; 12225. SP305-3.
- Nitrous oxide; Photoionization radiolysis; Ion clustering; Ion-molecule reactions; Mass spectrometry; 14482. SP305-6.
- Nitrous oxide; Photolysis; Energy transfer; Fluorescence; Hydrozoic acid; 9418. SP305.
- Nitrous oxide; Q-switching; Vibrational relaxation; Fluorescence; Infrared; Laser; 11858. SP305-3.
- Nitrous oxide; Radiation chemistry; Rates; Review; Chemical kinetics; Data compilation; Dosimetry; G; Gas; NSRDS-NBS45. SP305-5.
- Nitrous oxide; Total scattering cross section; Electron impact; Electron scattering resonances; Exponential attenuation; Low energy; Negative ions; Nitric oxide; 14983. SP305-7.
- Nitroxide radical; Osazones; Phenylhydrazones; Alkaline solution; Chemical changes; Electron spin resonance; Free radical mechanism; 14065. SP305-6.
- Nitryl chloride; Ozone; RRKM; Ammonia; Combination; Cyanogen; Decomposition kinetics; Nitric acid; 14046. SP305-6.
- N-V; Nuclear magnetic resonance; Hyperfine-field and atomic-moment; Ni-Al; Ni-Cr; 10093. SP305-1.
- N-V edges; Spectroscopy; Vacuum ultraviolet; 4d photoabsorption; Atomic structure; Barium; 15845. SP305-8.
- N-V; Resonance cross section profiles; Spectroscopy; Vacuum ultraviolet; Xenon; 4d absorption; Atomic structure; Inner shell; 15054. SP305-7.
- N-V ionization thresholds; Photoabsorption; 4d absorption; 4f orbital contraction; Barium vapor; Configuration interaction; 14907. SP305-7.
- N-V; Ordered ternary silicides and germanides; Silicides and germanides; Ternary Ni<sub>3</sub>Ni<sub>2</sub>-related phases; TiNiSi; Fe<sub>2</sub>P and Mn<sub>2</sub>Si<sub>2</sub>; Metal-metal bonding; Metal-site occupancies; SP364, pp. 613-622. SP305-4.
- Ni-63 neutron capture cross-section; Radioactivity standards; Half-life; Mass spectrometry; Microcalorimetry; 12567. SP305-4.
- N-methylpropionamide; Solvation; Tris(hydroxymethyl)aminomethane; Acidic dissociation; Dissociation constant; Emf measurements; Ionization processes; 13712. SP305-5.
- N-methylpropionamide; Structure; Water; Density; Dielectric constant; Excess molar volume; Kirkwood correlation parameter; 10988. SP305-2.
- NMR; Adsorbed water; Calorimetry; Collagen; Frozen collagen; Mobile water; 11998. SP305-3.
- NMR; NQR; CMN; Ideal paramagnet; 12972. SP305-4.
- Nmr; Nqr; Nuclear induction; Signal averaging; Frequency-sweep; Injection-locking; 12875. SP305-4.
- NMR; NQR; Nuclear spin-spin relaxation; Nuclear spin-lattice relaxation; PrCl<sub>3</sub>; Antiferromagnet; 11382. SP305-2.
- NMR; Nuclear interaction; Nuclear quadrupole resonance; Thermal expansion; Ferromagnetism; Hyperfine field; 9219. SP305.
- Nmr; Nuclear magnetic resonance; Carbonyl compounds; Coordination compounds; Fluorophosphine; Iron carbonyl; 13982. SP305-6.
- NMR; Nuclear magnetic resonance; Phosphorus; Spectral analysis; Computer program; Isopropyl; 11897. SP305-3.
- NMR; Order-disorder; Phase transition; Thermal analysis; Dipole ordering; DTA; 13009. SP305-4.
- NMR; Ordering; Relaxation times; Solid solutions; Alloys; Contact term; Core polarization; Exchange enhancement; Knight shifts; LaNi<sub>5</sub>; LaNi<sub>5-x</sub>P<sub>x</sub>; LaPt<sub>5</sub>; 14889. SP305-7.
- NMR; Permeation in polymers; Polymeric films; Reverse osmosis; Salt-polymer interactions; Aromatic polyamide membranes; Desalination; Diffusion; Membranes; 13438. SP305-5.
- NMR; Polysilanes; Silicon; Sub-halides; Boron; Fluorine; 9229. SP305.
- NMR; Porous membranes; Adsorption of water; Cellulose acetate; Dehydration; Free induction decay; Freezing of water; Irreversible processes; Membranes; 13947. SP305-6.
- NMR; Pressure dependence; Relaxation; Reorientation; Temperature dependence; Chloroform; Deuterium; 15324. SP305-7.
- N.m.r.; Purity; SRM; Standard Reference Materials; VMA; Bilirubin; Cholesterol; Cortisol; E.s.r.; D-mannitol; NADH; TN587. SP305-4.
- N.m.r.; Quadrupole; Single crystal; NDCl<sub>3</sub>; 10672. SP305-1.
- NMR; Rare earth metals and alloys; Soft x ray; Alloy data; Bibliography; Index; Knight shifts; 14744. SP305-7.
- NMR; Relative signs; Silicon; Coupling constants; Fluorine; Fluoroalkylsilanes; 16432. SP305-8.
- NMR; Relaxation; Chemical shift; Fluoroalkanes; Molecular dynamics; 16327. SP305-8.
- Nmr; Relaxation; Scalar coupling; Sensitivity; <sup>13</sup>C; Fourier transform; 12378. SP305-3.
- NMR; SCB<sub>2</sub>; Transition metal diborides; Electric quadrupole coupling constant; Knight shift; 14887. SP305-4.
- N.m.r.; Siloxane; Stereochemistry; Synthesis; Tungsten; Fluorine; Methoxy; 11630. SP305-2.
- NMR; Soft x ray; Alloy data; Bibliography; Index; Information; Knight shifts; NBS-OSRDB-70-2 (COM-71-00722). SP305-3.
- NMR; Soft x ray; Alloy data; Bibliography; Index; Information; Knight shifts; SP324. SP305-3.
- NMR; Soft x ray; Alloy data; Bibliography; Index; Information; Knight shifts; 174A No. 4, 531-533 (1970). SP305-2.
- NMR; Soft x-ray spectroscopy; Alloys; Annotation; Automated; Bibliography; Data; Indexing; Information; Knight shifts; Metals; TN464. SP305-1.
- NMR; Spin-lattice relaxation; Spin-spin relaxation; Cancer; Mice; J. Res. 80A No. 3, 439-450 (1976). SP305-8.
- NMR; Switching; Ultrasonics; 14980. SP305-7.

NMR; Temperature; Closure seal; Electrical feedthrough; High pressure; Hydrostatic; 14078. SP305-6.

NMR; Temperature fluctuation; Closed water system; Magnetic field stability; 9718. SP305-1.

NMR; TMC; Cooperative transition; Magnetic susceptibility; 12989. SP305-4.

NMR;  $^{13}\text{C}$ ; Alkane; Chemical shift tensor; Methylene; 16041. SP305-8.

NMR relaxation; Rotational diffusion; Spin-rotation; Angular momentum relaxation; Collision numbers; Liquids; 14113. SP305-6.

NMR relaxation times; Nuclear magnetic resonance; Cellulose acetate membranes; Differential scanning calorimetry; Freezing in porous systems; Membranes; 14631. SP305-6.

NMR second moment; *n*-nonadecane; Paraffin; Rotator phase; Wideline NMR; Molecular rotation; 14018. SP305-6.

N.m.r. spectroscopy; Nicotinic acid; 1,2,3,4-metallo-organic standard reference materials; Periodic acid; Polycyclic air-pollutants; Polyhydroxy cyclic compounds; Standard reference materials; Sucrose; Sulfonic Ka measurements; Urea; Uric acid; TN457. SP305-1.

N.m.r. spectroscopy; Nuclear Overhauser effects; Spin-spin coupling constants; Variable temperature studies; Conformational analysis; Iterative analysis; Long-range coupling constants; 12777. SP305-4.

NMR spectroscopy; Nuclear Overhauser effect; Conformations; Equilibration; Glucofuranses; Interaction energies; 11615. SP305-2.

NMR spectroscopy; 1,3-dithiolen-2-thione; Chromium carbonyl; Infrared spectroscopy; Metal carbonyl; Molybdenum carbonyl; 15985. SP305-8.

N.M.R. spectroscopy; 6-amino-6-deoxy-D-glucose;  $^{15}\text{N}$ ;  $^{15}\text{N}$ -labeled aminosugars; Mass spectroscopy; 11275. SP305-2.

NMR-relaxation-times;  $^{19}\text{F}$ ;  $^{35}\text{Cl}$ ; Angular-momentum; Correlation-times; Molecular-reorientation; 14422. SP305-6.

NMS; Force; 16438. SP305-8.

(*n,n*), (*n,y*),  $E = 1$  eV-few keV; Nuclear reactions; Summary of deduced  $E_0$ ,  $g_{\pi}$ ,  $\Gamma$ ,  $S_0$ , ( $D_2$ ); Various statistical tests; Measured  $\sigma_f(E)$ ; SP425, pp. 780-783. SP305-7.

*N,N*-dimethyl-*p*-toluidine; Ultraviolet spectroscopy; Aromatic amine; Charge-transfer complexes; Color; Dental material; Methacrylate, phthalate; 15158. SP305-7.

*N,N*-dimethyl-3,5-dimethylaniline; Polymerization; Accelerators; Color formation; Discoloration; Methacrylate; 10261. SP305-1.

(*n,n'*); Nuclear reactions;  $\gamma$ -production; Cr, Ni, Zr;  $E_n = 3-6$  MeV; SP425, pp. 934-937. SP305-7.

(*n,n'*) reaction;  $\sigma(E, \theta)$ ;  $^{76}\text{Ge}$ ;  $^{76}\text{Se}$ ;  $^{76}\text{Ga}$ ;  $E_n = 2.0-4.1$  MeV; Level schemes; SP425, pp. 893-896. SP305-7.

*N*-nonadecane; Neutron inelastic scattering; Phase transition; Rotational diffusion; Rotator phase; *N*-Alkanes; 13488. SP305-5.

*n*-nonadecane; Neutron scattering; Paraffin; Rotator phase; Molecular dynamics; *n*-alkanes; 13656. SP305-5.

*n*-nonadecane; Paraffin; Rotator phase; Wideline NMR; Molecular rotation; NMR second moment; 14018. SP305-6.

$\text{NO}^+$ ; Dipole moment function; Infrared intensities; Multiconfiguration; 13907. SP305-6.

$\text{NO}^+$ ; Quadrupole moment; CO; Hyperpolarizability; Multiconfiguration SCF;  $\text{N}_2$ ; 14317. SP305-6.

$\text{NO}^-$ ;  $\text{NO}_2^-$ ;  $\text{N}_2\text{O}_2^-$ ;  $\text{O}^-$  reactions; Alkali metal reactions; Charge transfer; Electron attachment; Infrared spectrum; Matrix isolation; 12415. SP305-4.

$\text{NO}$ ;  $\text{SO}_2$ ; Air pollution standards; Calibration mixtures (of gases); Microbubbles; Microstandards; 12908. SP305-4.

$\text{NO}$ ; Spin-orbit coupling constant; Water vapor laser; *g* Factor; Laser magnetic resonance; 12895. SP305-4.

$\text{N-O}$  bond energy; Trifluoromine oxide; Chlorine pentafluoride; Chlorine trifluoride; Cl-F bond energy; Flow calorimetry of gases; Heats of formation of fluorine-containing oxidizers; Hydrogen chloride; 11245. SP305-2.

$\text{NO}$ ,  $\text{NO}_2$ , pollutant detection; Apparatus and methods; Infrared lasers; Magnetic resonance; Molecular spectroscopy; 16456. SP305-8.

$\text{NO}$  reaction;  $\text{O}^3$  atom reaction; Ultraviolet spectrum; Vacuum ultraviolet photolysis; C atom reaction; CN reaction; HN photolysis; Infrared spectrum; Matrix isolation; NCO free radical; 10405. SP305-1.

No. 325 sieve; Portland cements; Precision; Tests; Wagner turbidimeter; Air-permeability; Cements; Fineness; 13855. SP305-6.

Nobelium; Plutonium; Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; Neptunium; 13594. SP305-5.

Nobelium; Plutonium; Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; Neptunium; 14257. SP305-6.

Noble gas; Spectroscopy; Electron beam excitation; Heat pipe oven; Lasers; Metal vapors; 16234. SP305-8.

Noble gas double ionization chamber; Synchrotron radiation; Transfer standard detectors; Calibration of detectors; Corrections for second order radiation; Far ultraviolet; 1498. SP305-7.

Noble gas separation; On-line computer; Pulse shape discrimination; Tropospheric mixing; Ar-37; Atmospheric radioactivity; Cosmic-ray reactions; Exponential distribution; Low-level counting; 15744. SP305-8.

Noble gas solids; Point defects; Semiconductors; Statistical thermodynamics; Formation enthalpy; Formation entropy; Formation free energy; Formation volume; Ionic solid Metals; 12966. SP305-4.

Noble gases; Line broadening; Lithium; 15584. SP305-7.

Noble gases; Lithium; Molecules; 15289. SP305-7.

Noble gases; Potential parameters; Second virial coefficient; Third virial coefficient; Water vapor; Air constituents; Boy temperature; Deuterium; Hydrogen; Intermolecular potential; Inversion temperature; Methane; 13108. SP305-5.

Noble gases; Radiation; Sodium; Molecules; 15167. SP305-7.

Noble gases; Secondary electron collisions; Atmospheric gas ionization; 12666. SP305-4.

Noble gases; Secondary electrons; Atmospheric gases; Cross section measurement; 12920. SP305-4.

Noble gases; Solubility-enhancement; Steam; Van der Waals equation; Ammonia; Dense gases; Equation of state; Hydrogen; Nitrogen; Mercury vapor; 11742. SP305-2.

Noble metal alloys; Temperature scale; Temperature standards; Thermocouples; Thermometry; Base metal alloys; Monometals; 125. SP305-6.

Noble metal alloys; Temperature scale; Temperature standards; Thermocouples; Thermometry; Base metal alloys; Monometals; 125, Suppl. 1. SP305-7.

Noble metal alloys; X-ray emission; Gold and platinum group alloys; 10343. SP305-1.

Noble metals; Orthogonalized plane waves; Alloys; Charge impurity screening; Hyperfine fields; Knight shift; 106. SP305-1.

Noble metals; Orthogonalized plane waves; Alloys; Charge impurity screening; Hyperfine fields; Knight shift; 114. SP305-2.

Noble metals; P; Sn; Susceptibility; Zn; Ag; Al; Alloys; Au; Cu; Ga; Hg; Hyperfine fields; In; Knight shift; 10837. SP305-1.

Noble metals; Phase diagrams; Phase equilibria; Platinum group metals; Alloy phases; Constitution diagrams; NBSIR 73-4. SP305-7.



Noble metals; Pressure effects; Crystal potential; Effective masses; Electronic density of states; Electronic specific heat; *SP323*, pp. 63-65. **SP305-4.**

Noble metals; Rare gas; Shift; Core level; Implant; *16080*. **SP305-8.**

Noble metals; Rigid band model; Transition metals; X-ray photoemission;  $\text{ZnS}$ ;  $\text{CdCl}_2$ ; Density of states;  $\text{HgO}$ ; *SP323*, pp. 163-178. **SP305-4.**

Noble metals; Rigid band model; Transition metals; X-ray photoemission;  $\text{ZnS}$ ;  $\text{CdCl}_2$ ; Density of states;  $\text{HgO}$ ; *J.74A No. 4*, 543-558 (1970). **SP305-2.**

Noble-metal thermocouple; Oxidation; Platinum; Platinum-rhodium alloy; Preferential oxidation; Temperature gradient; Thermal gradient; Thermocouple; Thermoelectric stability; Aging; Calibration change; Gradient; High temperature (700 to 2000 °C); Iridium; *16158*. **SP305-8.**

Noble-metal thermocouples; Nonstandardized thermocouples; Refractory metal thermocouples; Standardization; Temperature measurement; Thermocouples; Thermometry; Base-metal thermocouples; Cryogenic thermocouples; *15517*. **SP305-7.**

Node-covering; Trees; Helly's theorem; Mathematical induction; Minimum-length coverings; *J.76B Nos. 1 and 2*, 39-43 (1972). **SP305-4.**

Noise; Building acoustics; Force platforms; Impact noise; Instrumentation; Mechanical impedance; *15462*. **SP305-7.**

Noise; Communication; Field strength; Measurement; Mines; *13155*. **SP305-5.**

Noise; Community noise; Computer interface; Instrumentation; Minicomputer; *NBSIR 75-692*. **SP305-8.**

Noise; Effective temperature; Measurement; Mismatched generators; *11177*. **SP305-2.**

Noise; Noise calibration; Radiometer; *10928*. **SP305-2.**

Noise; Noise control; Noise emission; Sound; Acoustical measurements; Acoustics; National measurement system; *15500*. **SP305-7.**

Noise; Noise factor; Noise temperature; Y-factor; Amplifier noise; *12191*. **SP305-3.**

Noise; Noise measurement; Amplifier noise; *11881*. **SP305-3.**

Noise; Noise measurement; Sound power level; Standard test procedures for sound power measurement; Air compressors; Error of sound power measurement; *NBSIR 75-652*. **SP305-7.**

Noise; Noise model; Noise simulation; Precision measurements; Random noise; Reasonable perturbations; Spectral density; 1/f noise; Flicker noise; Low frequency noise; Mechanical noise; Modulation noise; *10555*. **SP305-1.**

Noise; Noise sources; Social impact; *13504*. **SP305-5.**

Noise; Nyquist's theorem; Thermal noise standard; Error analysis; Millimeter wave; *TN615*. **SP305-4.**

Noise; Paper caps; Standard apparatus; Toys; Acoustics; Cap guns; Children; Consumer safety; Hearing damage; *TN793*. **SP305-5.**

Noise; Pavement macrotecture; Profile tracer; Tires; *NBS-GCR-75-35*. **SP305-8.**

Noise; Phase; Power; Pulsed quantities; Squids; Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM Metrology; Field strength; Impedance; *NBSIR 74-395*. **SP305-7.**

Noise; Phase noise; RF amplifiers; Transistor noise; Atomic frequency standards; Capacitor noise; Cesium beam; Flicker phase noise; Frequency multipliers; Frequency standards; Hydrogen maser; Negative feedback; *10968*. **SP305-2.**

Noise; Phase shift; Power; Progress; Reflection coefficient; Review; Standards; Survey; Antenna gain; Attenuation; Field strength; Impedance; Measurement; Microwave; *9565*. **SP305-1.**

Noise; Pollution; Sound; Acoustics; Environmental control; Measurement; *12730*. **SP305-4.**

Noise; Precision; Repeatability; Reproducibility; Accuracy; Acoustics; *14866*. **SP305-7.**

Noise; Pressure; Quality control; Safety; Testing; Engineering; Instrumentation and techniques; Fluids; Force; Hydraulic equipment; Mechanical power; *16452*. **SP305-8.**

Noise; Pressure-loss-depression; Thermal convection; Ventilation; Air infiltration and extraction, airtightness; Discomfort index; Duct system, collective and individual branch; Flow rates; *TN710-3*. **SP305-4.**

Noise; Psychoacoustics; Psychophysics; Loudness; *13625*. **SP305-5.**

Noise; Psychoacoustics; Speech interference; Aircraft noise; Annoyance; *15536*. **SP305-7.**

Noise; Pulse generator; Pulse measurement; Sampling oscilloscope; Scattering parameters; Spectral analysis; Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Jitter; Microwave measurement; Mismatch; Network analyzer; *TN672*. **SP305-7.**

Noise; Rating scheme; Sound; Standards organization; Acoustics; *SP386*, 1976 Edition. **SP305-8.**

Noise; Reverberation room; Sound power; Statistical room acoustics; Acoustics; *TN841*. **SP305-6.**

Noise; Reverberation rooms; Room acoustics; Sound power; Acoustic modelling; Acoustics; Impact noise; *16433*. **SP305-8.**

Noise; Satellite; Synchronization; Time and frequency dissemination; VHF; VLF; HF; *TN357*. **SP305.**

Noise; Sound; Acoustics; Environmental pollution; *13498*. **SP305-5.**

Noise; Sound; Acoustics; *15420*. **SP305-7.**

Noise; Sound; Sound power; Acoustics; Machinery noise; *15217*. **SP305-7.**

Noise; Sound; Tire noise; Truck tires; Acoustics; Military vehicles; *14875*. **SP305-7.**

Noise; Sound insulation; Sound pressure level; Walls; Facade; *TN710-2*. **SP305-4.**

Noise; Sound power level; Sound pressure level; Acoustics; Air compressor; Internal combustion engine; *NBSIR 75-653*. **SP305-7.**

Noise; Soundpower; Acoustics; *13812*. **SP305-6.**

Noise; Standard; Cryogenic; Microwave; *11164*. **SP305-2.**

Noise; Standard apparatus; Toys; Children; Consumer safety; Guns; Hearing damage; *NBSIR 74-619*. **SP305-7.**

Noise; Standards; Time standards; Wall shift; Atomic clocks; Cesium beam; Clocks; Frequency fluctuations; Frequency standards; Hydrogen maser; Hyperfine separation; Maser; *10108*. **SP305-1.**

Noise; Statistical; Flicker; Model; *9553*. **SP305-1.**

Noise; Structural vibration; Acoustics; Building acoustics; Impact noise; *NBS-GCR-75-33*. **SP305-8.**

Noise; Superconductivity; Thermometry; Josephson effect; *12159*. **SP305-3.**

Noise; Superconductivity; Thermometry; Josephson effect; Linewidth; Millidgree; *10376*. **SP305-1.**

Noise; Synchronization; Time; Time scale; Time scale precision; Atomic clock; Clock weighting factors; Flicker noise; Frequency stability; *12480*. **SP305-4.**

Noise; Time scale; Time standards; Clocks; Frequency accuracy; Frequency stability; Frequency standards; Infrared frequency multiplication; *16488*. **SP305-8.**

Noise; Toys; Bicycle attachments; Children; Consumer safety; Model airplanes; *NBSIR 75-693*. **SP305-7.**

Noise abatement; Economic impact of noise; *13274*. **SP305-5.**

Noise abatement; Noise pollution; Hearing conservation; *11763*. **SP305-2.**

Noise calibration; Radiometer; Noise; *10928*. **SP305-2.**

Noise calibration; Standard; Thermal noise; Millimeter waves; *14148*. **SP305-6.**

Noise comparator; Noise measurement; Noise standards; Measurement system; *12947*. **SP305-4.**

Noise comparison; Nonidentical amplifiers; Sine-wave comparison signal; Correlation radiometer; Differential time delay; Gain fluctuations; Imperfect multiplier; *J71C2-253, 153-170 (1967)*. **SP305.**

Noise control; Noise emission; Sound; Acoustical measurements; Acoustics; National measurement system; Noise; *15500*. **SP305-7.**

Noise control; Scanning analyzer; Spectral distribution; Computer noise; Damage-risk criteria; Hearing loss; *12579*. **SP305-4.**

Noise control; Sound measurements; Sound transmission; Acoustical instrumentation; Architectural acoustics; Building research; Field measurements; *14502*. **SP305-6.**

Noise control; Sound power; Acoustical measurement; *13814*. **SP305-6.**

Noise control; Structure-borne noise control; Airborne; Multifamily; *10457*. **SP305-1.**

Noise control and abatement; Traffic noise; Airborne and structure-borne sounds; Aircraft noise intrusion; Annoyance; Appliance noise; Health and hearing hazards; Household noise; Legal and community action; Loudness; *H119*. **SP305-8.**

Noise control enforcement; Noise control in dwellings; Acoustical field measurements; Building code enforcement; *SP361, Vol. 1, pp. 477-481*. **SP305-4.**

Noise control in dwellings; Acoustical field measurements; Building code enforcement; Noise control enforcement; *SP361, Vol. 1, pp. 477-481*. **SP305-4.**

Noise correlation; NSS; Optimum filter; Phase noise; Radio propagation; Time comparison; USNO; VLF propagation; WWVL; Effect of mass on frequency; Flicker noise; NBS; *11241*. **SP305-2.**

Noise criterion curve; Noise isolation class; Operation BREAKTHROUGH; Acoustics; Field impact insulation class; *13455*. **SP305-5.**

Noise criterion curves; Noise isolation class; Operation BREAKTHROUGH; Acoustics; *13415*. **SP305-5.**

Noise emission; Noise pollution; Product safety; Emergency messages; Hearing loss; Lawn mowers; *NBSIR 74-608*. **SP305-7.**

Noise emission; Reverberation rooms; Sound transmission; Acoustical measurements; Acoustics; Impact noise; *15501*. **SP305-7.**

Noise emission; Sound; Acoustical measurements; Acoustics; National measurement system; Noise; Noise control; *15500*. **SP305-7.**

Noise emission; Speech communication interference; Consumer products; Criteria for safety standards; Federal regulations; Hearing impairment; Hearing survey; *NBSIR 74-606*. **SP305-7.**

Noise exposure; Acoustics (sound); Environmental acoustics; Instrumentation; *13728*. **SP305-5.**

Noise exposure; Noise exposure meters; Acoustics (sound); Dosimeter; Environmental acoustics; Instrumentation; *NBSIR 73-417*. **SP305-6.**

Noise exposure meters; Acoustics (sound); Dosimeter; Environmental acoustics; Instrumentation; Noise exposure; *NBSIR 73-417*. **SP305-6.**

Noise exposure meters; Personal noise exposure meters; Exposure meters, noise; Meters noise exposure; *14062*. **SP305-6.**

Noise factor; Noise measurements; Noise performance factors; Noise temperature; Y-factor measurements; Effective input noise temperature; Measurement errors; *Monogr. 142*. **SP305-6.**

Noise factor; Noise source; Noise temperature; Radiometer; Error analysis; *9946*. **SP305-1.**

Noise figure; Amplifier noise; Effective input noise temperature; Mismatch error; Mismatch uncertainty; *TN640*. **SP305-5.**

Noise figure; Y-factor; Analysis; Automation; *13199*. **SP305-5.**

Noise figure; Y-factor; Analysis; Automation; *14524*. **SP305-6.**

Noise isolation class; Operation BREAKTHROUGH; Acoustics; *13414*. **SP305-5.**

Noise isolation class; Operation BREAKTHROUGH; Acoustics; Noise criterion curves; *13415*. **SP305-5.**

Noise isolation class; Operation BREAKTHROUGH; Acoustics; Field impact insulation class; Noise criterion curve; *13455*. **SP305-5.**

Noise level; Operation BREAKTHROUGH; Precipitation; Solar radiation; Temperature; Wind direction; Wind speed; Air contamination; Design conditions; Earthquake risk; Evaluation; Ground temperature; Humidity; *13398*. **SP305-5.**

Noise measurement; Amplifier noise; Noise; *11881*. **SP305-3.**

Noise measurement; Noise pollution; Noise regulations; Noise (sound); Acoustics; *12943*. **SP305-4.**

Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tires; Transportation noise; Trucks; Urban planning; Acoustics; *12329*. **SP305-3.**

Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tire noise; Transportation noise; Trucks; Urban planning; Acoustics; *14873*. **SP305-7.**

Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tire noise; Transportation noise; Trucks; Urban planning; Acoustics; *14874*. **SP305-7.**

Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tire noise; Transportation noise; Truck; Urban planning; Acoustics; *15002*. **SP305-7.**

Noise measurement; Noise (sound); Railroad yard; Trains; Acoustics; *NBSIR 74-488*. **SP305-7.**

Noise measurement; Noise (sound); Tire noise; Transportation noise; Truck; Acoustics; *15792*. **SP305-8.**

Noise measurement; Noise (sound); Tire noise; Transportation noise; Truck; Acoustics; *16370*. **SP305-8.**

Noise measurement; Noise (sound); Transportation noise; Truck; Acoustics; Environmental conditions; *NBSIR 76-1138*. **SP305-8.**

Noise measurement; Noise (sound); Truck noise (exterior); Truck noise (interior); Trucks; Acoustics; *TN737*. **SP305-4.**

Noise measurement; Noise standards; Measurement system; Noise comparator; *12947*. **SP305-4.**

Noise measurement; Noise (sound); Tire noise; Transportation noise; Trucks; Acoustics; *14719*. **SP305-6.**

Noise measurement; Oscillator stability; Flicker noise; Frequency stability; *14827*. **SP305-7.**

Noise measurement; Reverberation chambers; Sound energy measurement; Sound power measurement; Acoustical measurements; Acoustics; *14786*. **SP305-7.**

Noise measurement; Sound power level; Standard test procedures for sound power measurement; Air compressors; Error of sound power measurement; Noise; *NBSIR 75-652*. **SP305-7.**

Noise measurements; Noise performance factors; Noise temperature; Y-factor measurements; Effective input noise temperature; Measurement errors; Noise factor; *Monogr. 142*. **SP305-6.**

Noise measurements; Sound levels; Acoustics; *13561*. **SP305-5.**

Noise model; Noise simulation; Precision measurements; Random noise; Reasonable perturbations; Spectral density; 1/ noise; Flicker noise; Low frequency noise; Mechanical model; Modulation noise; Noise; *10555*. **SP305-1.**

Noise monitoring; Outdoor noise; Acoustics (sound); Environmental acoustics; Instrumentation; *NBSIR 75-962*. **SP305-7.**

Noise of police firearms; Damage risk criteria for impulse noise; Gunfire noise; Noise-induced hearing damage; *14793*. **SP305-7.**

Noise performance factors; Noise temperature; Y-factor measurements; Effective input noise temperature; Measurement errors; Noise factor; Noise measurements; *Monogr. 142*. **SP305-6.**

Noise pollution; Hearing conservation; Noise abatement; *11763*. **SP305-2.**

Noise pollution; Noise regulations; Noise (sound); Acoustics; Noise measurement; 12943. **SP305-4.**

Noise pollution; Noise (sound); Sound transmission; Tires; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; 12329. **SP305-3.**

Noise pollution; Noise (sound); Sound transmission; Tire noise; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; 14873. **SP305-7.**

Noise pollution; Noise (sound); Sound transmission; Tire noise; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; 14874. **SP305-7.**

Noise pollution; Noise (sound); Sound transmission; Tire noise; Transportation noise; Truck; Urban planning; Acoustics; Noise measurement; 15002. **SP305-7.**

Noise pollution; Product safety; Emergency messages; Hearing loss; Lawn mowers; Noise emission; *NBSIR 74-608*. **SP305-7.**

Noise pollution; Sonic boom; Damage by sonic booms; 13428. **SP305-5.**

Noise pollution; Voltage transfer; Bus experiment; Charcoal grill safety; Computer privacy and security; Computer standards proposed; Electroexplosive devices; Energy monitored; Jerry-can standard; Materials conservation; *DIMI/NBS 58, No. 7, 145-168 (1974)*. **SP305-6.**

Noise power; Noise temperature; Operational amplifiers; Thermal noise; Low-frequency detector; 11216. **SP305-2.**

Noise power comparator; Power comparator; Prototype noise power comparator; Radiometers; Spectral densities; 10153. **SP305-1.**

Noise propagation; Sound propagation; Acoustics; Aircraft noise; Atmospheric acoustics; Infrasound; 14247. **SP305-6.**

Noise reduction; Null detector; Parametric amplifier; Varactor amplifier; Audio amplifier; Capacitance bridge detector; 10891. **SP305-2.**

Noise reduction; Performance specification; Technology incentives; ETIP; Government procurement policy; *NBS-GCR-ETIP 73-04*. **SP305-8.**

Noise reduction; Performance specification; Technology incentives; Energy conservation; ETIP; Government procurement policy; *NBS-GCR-ETIP 73-05*. **SP305-8.**

Noise reduction; Transmission loss; Absorption coefficient; Acoustics; Airborne sound insulation index; Frequency; 13732. **SP305-5.**

Noise regulations; Noise (sound); Acoustics; Noise measurement; Noise pollution; 12943. **SP305-4.**

Noise, signal; Photomultipliers; Signal noise ratio; Statistical properties; Time intervals; 9232. **SP305.**

Noise simulation; Precision measurements; Random noise; Reasonable perturbations; Spectral density; 1/f noise; Flicker noise; Low frequency noise; Mechanical model; Modulation noise; Noise; Noise model; 10555. **SP305-1.**

Noise (sound); Acoustics; Noise measurement; Noise pollution; Noise regulations; 12943. **SP305-4.**

Noise (sound); Railroad yard; Trains; Acoustics; Noise measurement; *NBSIR 74-488*. **SP305-7.**

Noise (sound); Sound transmission; Tires; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; 12329. **SP305-3.**

Noise (sound); Sound transmission; Tire noise; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; 14873. **SP305-7.**

Noise (sound); Sound transmission; Tire noise; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; 14874. **SP305-7.**

Noise (sound); Sound transmission; Tire noise; Transportation noise; Truck; Urban planning; Acoustics; Noise measurement; Noise pollution; 15002. **SP305-7.**

Noise (sound); Tire noise; Transportation noise; Acoustics; 13727. **SP305-5.**

Noise (sound); Tire noise; Transportation noise; Acoustics; Automobile; 13807. **SP305-6.**

Noise (sound); Tire noise; Transportation noise; Acoustics; 14650. **SP305-6.**

Noise (sound); Tire noise; Transportation noise; Trucks; Acoustics; Noise measurement; 14719. **SP305-6.**

Noise (sound); Tire noise; Transportation noise; Acoustics; 15206. **SP305-7.**

Noise (sound); Tire noise; Transportation noise; Acoustics; Automobile; 15312. **SP305-7.**

Noise (sound); Tire noise; Transportation noise; Truck; Acoustics; Noise measurement; 15792. **SP305-8.**

Noise (sound); Tire noise; Transportation noise; Truck; Acoustics; Noise measurement; 16370. **SP305-8.**

Noise (sound); Transportation noise; Truck; Acoustics; Environmental conditions; Noise measurement; *NBSIR 76-1138*. **SP305-8.**

Noise (sound); Truck noise (exterior); Truck noise (interior); Trucks; Acoustics; Noise measurement; *TN737*. **SP305-4.**

Noise source; Noise temperature; Radiometer; Error analysis; Noise factor; 9946. **SP305-1.**

Noise source level; Sound pressure level; Truck tire; Directivity; 13808. **SP305-6.**

Noise source measurements; Radiometer; Cryogenic noise source measurements; Microwave; 9150. **SP305.**

Noise sources; Recreational; Work; Home noise; 14270. **SP305-6.**

Noise sources; Social impact; Noise; 13504. **SP305-5.**

Noise specification and measurement; Oscillator noise; Phase noise; Radio frequency power spectral density; Script  $\mathcal{P}(f)$ ; Script  $\mathcal{H}(f)$ ; Script  $\mathcal{N}$ ; Sidebands; Signal stability; Spectral density; Amplitude fluctuations; Cross-spectral density; 14028. **SP305-6.**

Noise standards; Measurement system; Noise comparator; Noise measurement; 12947. **SP305-4.**

Noise studies; Quartz crystal oscillators; Quartz crystal resonators; Accuracy; Atomic clocks; Cesium standards; Hydrogen standards; Hydrogen storage device; Methane stabilized helium-neon lasers; 14846. **SP305-7.**

Noise temperature; Operational amplifiers; Thermal noise; Low-frequency detector; Noise power; 11216. **SP305-2.**

Noise temperature; Radiometer; Error analysis; Noise factor; Noise source; 9946. **SP305-1.**

Noise temperature; Superconductors; Amplifier noise; Josephson effect; Low temperature; 12605. **SP305-4.**

Noise temperature; Y-factor; Amplifier noise; Noise; Noise factor; 12191. **SP305-3.**

Noise temperature; Y-factor measurements; Effective input noise temperature; Measurement errors; Noise factor; Noise measurements; Noise performance factors; *Monogr. 142*. **SP305-6.**

Noise temperature measurement; Compensation method; Cryogenic noise generators; Mismatch error; 12182. **SP305-3.**

Noise theory; Signal statistics; Trigonometric functions; Bessel functions; Complete elliptic integrals; Hyperbolic function; Infinite integrals; Modified Bessel functions; *J.79B Nos. 3 and 4, 137-170 (1975)*. **SP305-7.**

Noise thermometer; Nuclear orientation; Paramagnetism; Superconductivity; Temperature; Josephson junctions; *TN823*. **SP305-6.**

Noise thermometer; Superconductive transition temperatures; Temperature; Copper NMR thermometer;  $\gamma$ -ray thermometer; 15527. **SP305-7.**

Noise thermometer; Thermometer;  $^{60}\text{Co}$ ; Gamma rays; Josephson junction; 15166. **SP305-7.**

Noise thermometry; Nuclear magnetic resonance; Nuclear quadrupole resonance; Paramagnetism; Superconductivity; Temperature; Acoustical thermometry;  $\gamma$ -ray anisotropy thermometry; *TN830*. **SP305-6.**

- "Noise" thermometry; Nuclear resonance thermometry; Radiation thermometry; Temperature measurement; Temperature scales; Temperature uncertainties; Thermodynamic temperature scales; Acoustical thermometry; Black-body radiation; Gas thermometry; Kirchhoff's law; 10613. SP305-1.
- Noise thermometry; Superconductive fixed points; Superconductivity; Thermometry; Critical magnetic field; Heat capacity; Josephson junctions; 13540. SP305-5.
- Noise thermometry; Superconductivity; Beryllium;  $\text{Co}^{60}$   $\gamma$ -ray anisotropy thermometer; Josephson junction; Low temperature thermometry; 14690. SP305-6.
- Noise thermometry; Temperature; Dilution refrigerators;  $\gamma$ -ray anisotropy thermometry; Josephson junctions; 15526. SP305-7.
- Noise-induced hearing damage; Noise of police firearms; Damage risk criteria for impulse noise; Gunfire noise; 14793. SP305-7.
- Noisiness; Psychophysics; Schedules of reinforcement; Audition; Aversion for sound; Escape and avoidance; Loudness; 14414. SP305-6.
- Nomenclature; Optical radiation; Fluorimetry; Photometry; Radiometry; Terminology; Geometrical radiative transfer; 13255. SP305-5.
- Nomenclature; Photochemistry; Photometry; Physical optics; Radiometry; Spectrometry; Spectroradiometry; Analytical chemistry; 16331. SP305-8.
- Nomogram; Tripartite nomogram; 9364. SP305.
- Nomograph; Oxygen concentration; Capacitance; Detector resolution; Effective Fano factor; Ge(Li) detector; Lithium-ion drift; TN537. SP305-2.
- Nonadditivity; Principal components; Surface fitting; Two-way arrays; Factorial experiments; Interaction; 12109. SP305-3.
- Nonadditivity; Principal components; Surface fitting; Factorial experiments; Interaction; J.73B No. 4, 309-328 (1969). SP305-1.
- Nonadditivity; Third virial coefficients; Argon; M-6-8 potential; 13040. SP305-4.
- Nonadiabatic; Oscillations; Resonances; Stellar; Binary; Gravity modes; 15282. SP305-7.
- Nonadiabatic; Pure precession; RKR potentials; A-doubling; Heterogeneous interaction; Molecular hydrogen; 13897. SP305-6.
- Non-adiabatic interactions; Radiative association; Two-body recombination rates; Bates mechanism; Feshbach-type resonance states; Inverse predissociation; Molecule formation; 14647. SP305-6.
- Non-adiabatic mixing; OH radiative association rate; Predissociation widths; Interstellar clouds; Interstellar molecule formation; Inverse predissociation; 12457. SP305-4.
- Nonanalytic; Oxygen; Vapor pressure; Critical point; Equation; Formula; Liquid; Nitrogen; J.73A No. 5, 487-491 (1969). SP305-1.
- Nonaqueous; Semiconductor; Silicon; Titanium dioxide; Acetonitrile; Cyclic voltammetry; Electrochemistry; SP455, pp. 149-152 (Nov. 1976). SP305-8.
- Nonaqueous; Solvent effects; Acid-base; Ammonia; Ammonium; Buffer solutions; Dissociation constant; Electrolytes; Ionization; Methanol; 9977. SP305-1.
- Nonaqueous acid-base spectrophotometry; Nonaqueous acid-base titrations; Phenyl diethyl Nile Blue; *p*-tolyl di-*n*-propyl Nile Blue base; Relative strengths of indicator dyes; Solvatochromism; Acid-base indicators; Acidity in nonaqueous solvents; 9660. SP305-1.
- Nonaqueous acid-base titrations; Phenyl diethyl Nile Blue; *p*-tolyl di-*n*-propyl Nile Blue base; Relative strengths of indicator dyes; Solvatochromism; Acid-base indicators; Acidity in nonaqueous solvents; Aprotic solvents; Methyl Yellow; 9660. SP305-1.
- Non-aqueous deacidification; PH; Accelerated aging; Acidity; Aging; Alkaline filler; Aqueous deacidification; Deacidification; Degradation; Laboratory aging; 11566. SP305-2.
- Nonaqueous electroplating; Organometallic compound; Decaborane; Electrodeposition of magnesium; Lithium deposition; 12027. SP305-3.
- Non-aqueous emf; Standard emf; Thermodynamic constants for HCl transfer; Activity coefficients; J.74A No. 5, 641-643 (1970). SP305-2.
- Nonaqueous media; PD; PH; PH\*; PH concept; Standards for acidity; Acidity scales; Deuterium oxide; 10506. SP305-1.
- Nonaqueous media; PH; Acid-base behavior; Acidity functions 9556. SP305-1.
- Nonaqueous media; Precision; Sensitivity; Tables; Accuracy; Atomic absorption; Detection limits; Differential method; Flame emission; 12111. SP305-3.
- Nonaqueous plating baths; Grignard reagents; Organic plating baths; Triethylboron; Beryllium, electrodeposition of; Beryllium azide; Beryllium thiocyanate, decaborane; Dimethyl beryllium; Magnesium, electrodeposition of; 12304. SP305-3.
- Nonaqueous solvents; PH; Thermodynamics; Acidity; Ion activity; Medium effect; 11249. SP305-2.
- Nonaqueous solvents; Phenols; Thermodynamics; Dissociation; Electrolytes; Methanol; *m*-nitrophenol; J.71A1-430, 9-1 (1967). SP305.
- Nonaqueous systems, electrolysis of; Potassium; Sodium; Aluminum; Beryllium; Electrolysis; Liquid ammonia; Lithium; Magnesium; 9598. SP305-1.
- Nonbiological transformation; Nonbiological transport; Pollutant photochemistry; Pollutants; Soil pollution; Solar spectrum; Water pollution; Adsorption; NBSIR 76-1130. SP305-8.
- Nonbiological transport; Pollutant photochemistry; Pollutants; Soil pollution; Solar spectrum; Water pollution; Adsorption; Nonbiological transformation; NBSIR 76-1130. SP305-8.
- Non-blackbody emission; Optical radiation; Radiometry; Sources; Spectral radiance; Blackbodies; 9344. SP305.
- Noncentral beta variable; Noncentrality; *Q* variate; Analysis of variance; Calibration; Correlation coefficient; Degrees of freedom; Distribution; Fixed variable; J.72B No. 1, 33-3 (1968). SP305-1.
- Noncentral *t*-distribution; Normal distribution; Statistics; Tolerance limits; J. Res. 80B No. 3, 343-346 (1976). SP305-8.
- Noncentrality; *Q* variate; Analysis of variance; Calibration; Correlation coefficient; Degrees of freedom; Distribution; Fixed variable; Noncentral beta variable; J.72B No. 1, 33-3 (1968). SP305-1.
- Non-classical atmospheres; Non-LTE; Chromosphere; Coronae; Extended atmospheres; SP332. SP305-2.
- Non-coherent scattering; Optical depth; Planetary nebulae; Radiative transfer; Velocity gradients; Balmer lines; Lyman continuum; 10755. SP305-1.
- Non-coherent scattering; Planck function; Source function; Spectral lines; Continuous absorption; 10369. SP305-1.
- Noncoherent scattering; Radiation scattering; Spectral line; Doppler broadening; 11335. SP305-2.
- Non-coherent scattering; Radiation transfer; Redistributive function; Spectral line; 10993. SP305-2.
- Noncoherent scattering; Radiative transfer; Spectral line; Thermalization length; 11444. SP305-2.
- Noncoherent scattering; Rayleigh scattering; Spectral line formation; Anisotropic scattering; Limb darkening; 1169. SP305-2.
- Noncoherent scattering; Thermalization length; Formation; Line; 12071. SP305-3.
- Noncombinatorial method; Statistical equilibrium; Configurational thermodynamic properties; Excluded volume; Extrapolations; Lattice models; 11880. SP305-3.



Noncombustible; Smoke development; Sprinklers; Survey; Building construction; Detectors; Flame spread; Furnishings; Interior finishes; *TN861. SP305-7.*

Nonconducting coating; Sacrificial anodes; Soil resistivity; Cathodic protection; Insulating joints; *BSS66*, pp. 116-119. **SP305-7.**

Non-contact sensing; Optical surface probe; Surface detection; Dimensional metrology; Displacement measurement; Microscope; *13617. SP305-5.*

Noncontact sensing; Optical surface probe; Surface detection; Dimensional metrology; Displacement measurement; Microscope; *12423. SP305-4.*

Noncontaminating; Sample preparation; Biological materials; Homogenization; Lyophilization; *SP422*, pp. 721-726 (Aug. 1976). **SP305-8.**

Noncoplanar proton bremsstrahlung; Off-the-energy-shell behavior; Potential model calculation; Proton-proton bremsstrahlung; Differential cross section; *11295. SP305-2.*

Non-coplanarity; Off-the-energy-shell matrix elements; Photon; Potential model calculations; Proton-proton bremsstrahlung; Angular distributions; Low energy approximation; *10911. SP305-2.*

Non-corrosive; Value; Fluoride; High-temperature; High-vacuum; Metal; Nickel-Monel; *10748. SP305-1.*

Non-cubic crystals; Defects in crystals; Diffusion; Drift velocity; Driving force; Matrix equations; *15130. SP305-7.*

Nondestructive; Fatigue monitor; Low temperature; Magnetometer; Martensite; *TN613. SP305-3.*

Nondestructive; Reagent blanks; Trace element analysis; Biological samples; Biological standards; Chemical separations; Environmental samples; Neutron activation analysis (NAA); *13687. SP305-5.*

Non-destructive; Reference; Tissue; Trace; Variance; Activation; Analysis; Biological; Blood; Bone; Botanical; Destructive; Homogeneity; Leaves; Liver; Neutron; *10790. SP305-1.*

Nondestructive analysis; Photon activation analysis; Archaeological materials; Bronze; Neutron activation analysis; *12742. SP305-4.*

Nondestructive analysis; Ruby; Trace elements; Activation analysis;  $Al_2O_3$ ; Interfering reactions; Laser; *J75A No. 5, 429-433 (1971). SP305-3.*

Nondestructive assay; Nuclear; Safeguards; Traceability; Calibration; Measurement; *16414. SP305-8.*

Nondestructive assay techniques; Safeguards; Integrated Safeguards Experiment; Limit of error calculations; *12767. SP305-4.*

Nondestructive bond pull test; Position of hook; Pull rate; Pull strength; Resolution-of-forces; Semiconductor devices; Ultrasonic bonding; Wire bond; Bond angle; Bonding; Bond pull test; Bond-to-bond spacing; Large wire; Loop height; Microelectronics; *SP400-18. SP305-8.*

Nondestructive evaluation; Materials reliability; *15315. SP305-7.*

Nondestructive evaluation; Nuclear; Radioactive tracers; Neutron activation analysis; Neutron gaging; Neutron radiography; *15956. SP305-8.*

Nondestructive evaluation; Performance; Processing; Technical strategy; Design; Development; Fabrication; Life cycle costing; Materials policy; *15873. SP305-8.*

Nondestructive evaluation; Productivity; Reliability; Reproducibility; Safety; Accuracy; Conservation; Measurements; *16301. SP305-8.*

Nondestructive evaluation; Pulse-echo; Ultrasonics; Aluminum ultrasonic reference standards; ASTM-type reference standards; Calibration; Interim reference standard; Longitudinal beam; Measurement system; *TN924. SP305-8.*

Nondestructive evaluation; Pull-out strength; Splitting tensile strength; Compressive strength; Concrete; Maturity; Mechanical properties; *TN932. SP305-8.*

Nondestructive evaluation; Pulse echo; Steel ultrasonic standards; Titanium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference standards; Calibration; Fabrication variables; Immersion testing; Interim reference standard; *NBSIR 76-984. SP305-8.*

Nondestructive evaluation; Radiography; Serviceability; Dimensional measurement; Image enhancement; Imaging methods; *15148. SP305-7.*

Nondestructive evaluation; Research associate program; School systems; Smoke detectors; Teaching metric; Cryogenic fluid; Door locks; Energy; EPIC supplement; High winds; Home security; *DIM/NBS 60, No. 4, 1-24 (1976). SP305-8.*

Nondestructive evaluation; Residual stress; Dislocation theory; Imperfect continua; Internal stress; *16411. SP305-8.*

Nondestructive evaluation; Spectral analysis; Acoustic emission; Dislocations; *16602. SP305-8.*

Nondestructive evaluation; Survey; Water hardness; Corrosion; Corrosion control; Metallic piping; *NBSIR 75-923. SP305-8.*

Nondestructive evaluation; Thermographic surveys; Thermography; Energy conservation; Energy surveys; Infrared; *TN923. SP305-8.*

Nondestructive evaluation (NDE); Radiography; Welding; Fracture control; Fracture mechanics; Mechanical properties; *NBSIR 76-1154, Vol. 1. SP305-8.*

Nondestructive evaluation (NDE); Radiography; Welding; Fracture control; Fracture mechanics; Mechanical properties; *NBSIR 76-1154, Vol. 2. SP305-8.*

Nondestructive examination; Neutron radiography; Ultrasonics; X-radiography; End fitting; Glass-reinforced-plastic rod end fitting; *NBSIR 76-1084. SP305-8.*

Nondestructive inspection; Acoustic emission; Acoustics; Flaw detection; *16269. SP305-8.*

Nondestructive inspection; Ceramics; Failure prediction; Fracture; Inclusions; *15401. SP305-7.*

Nondestructive neutron activation analysis; Photographic emulsions; Silver bromide; 2.8-MeV neutrons; 14.7-MeV neutrons; Chloride; Iodide; *11091. SP305-2.*

Nondestructive test; Nonlinear operation; Optical scanner; Reliability; Transistors; Failure analysis; Hot spots; Integrated circuits; Laser scanner; Measurement method; *SP400-27. SP305-8.*

Nondestructive test; Nonlinearity measurement; UHF transistor measurement; Active devices; Hot spots; Laser scanning; Logic flow observation; LSI testing; *15781. SP305-8.*

Nondestructive testing; Modulation transfer function; Vision; Visual acuity; Visual capacities; *NBSIR 76-1142. SP305-8.*

Nondestructive testing; Nuclear power; Reactor components; Electric utilities; Hot cell inspection; In-service inspection; *15118. SP305-7.*

Nondestructive testing; Proton radiography; Real-time techniques; Three-dimensional radiography; X-radiography; Dimensional measurement; Gamma radiography, image enhancement; Neutron radiography; *15214. SP305-7.*

Nondestructive testing; Pulse-echo; Steel ultrasonic standards; Titanium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference blocks; Fabrication of reference blocks; Immersion testing; Longitudinal waves; Metallurgical variables; *NBSIR 75-685. SP305-7.*

Nondestructive testing; Raman scattering; Sample characterization; Semiconductor; Cuprous oxide; Implantation; Ion; *15915. SP305-8.*

Nondestructive testing; Silicon optical absorption coefficient; Temperature mapping; Active devices; Hot-spot behavior; Laser scanning; *16577. SP305-8.*

Nondestructive testing; Surface hardness; Compressive strength; Concrete; Flexural strength; Formwork removal; *NBSIR 75-729. SP305-7.*

Nondestructive testing; Testing; Accelerated aging; Aging of buildings; Building components; Climate; Criteria; Deterioration; Durability; Materials; Mechanisms; *13637. SP305-5.*

- Nondestructive testing; Thickness of coal layer; Automation; Coal; Coal mine safety; Dielectric constant; Energy; Microwave measurement; *NBSIR 74-387. SP305-6.*
- Nondestructive testing; Thickness of coal layer; Automation; Coal; Coal mine safety; Dielectric constant; Energy; Microwave measurement; *NBSIR 76-840. SP305-8.*
- Nondestructive testing; Ultrasonic techniques; Dental amalgam; Dental materials; Elastic properties; Mechanical properties; *SP354*, pp. 161-168. **SP305-4.**
- Nondestructive tests; P-MOS shift register; Active devices; Laser scanning; Logic flow observation; LSI testing; Measurement of operating margins; *15833. SP305-8.*
- Nondestructive tests; Purity; Scattering; Time constant; Contaminants; Cryogenics; Eddy currents; Eddy current tests; Electrical resistivity; *12585. SP305-4.*
- Nondestructive tests; Purity; Scattering; Contaminants; Cryogenics; Eddy currents; Eddy current tests; Electrical resistivity; *12974. SP305-4.*
- Nondestructive tests; Real-time imaging; Thermoluminescence; Track-etch; Films; Images; Neutron radiography; *15796. SP305-8.*
- Nondestructive tests; Semiconductor devices; UHF transistor measurements; Device nonlinearity measurements; Hot spots, transistor; Laser scanning; *16571. SP305-8.*
- Non-diagram lines; Wentzel theory; X-ray satellite lines; Auger transition; Coster-Kronig theory; *12582. SP305-4.*
- Non-diffractive x-ray spectra; Optical spectrometry; Platinum analysis; Preconcentration techniques; Spark source mass spectrometry; Spectrochemical analysis; Spectrograph; Standard reference materials; Steel analysis; Target current scanning; Trace analysis; *TN502. SP305-2.*
- Nondirect transitions; Optical density of states; PbTe; Ultraviolet photoemission; Copper; Copper nickel alloys; Density of states; GaAs; Ge; *SP323*, pp. 139-157. **SP305-4.**
- Nondirect transitions; Optical density-of-states; Photoemission; Aluminum (Al); Direct and nondirect transitions; Electronic density of states; Indium (In); *SP323*, pp. 159-161. **SP305-4.**
- Nondirect transitions; Optical density of states; Optical properties; Photoemission; Aluminum-insulator-palladium (Al-Pd); Augmented plane wave method (APW); Cesium; Copper; Direct transitions; Electronic density of states; *SP323*, pp. 191-197. **SP305-4.**
- Nondirect transitions; Optical density-of-states; Photoemission; Scandium (Sc); Silver (Ag); Titanium (Ti); Zirconium (Zr); Copper; Direct versus nondirect transitions; Electronic density of states; Gold (Au); *SP323*, pp. 205-208. **SP305-4.**
- Nondirect transitions; Optical density of states; PbTe; Ultraviolet photoemission; Copper; Copper nickel alloys; Density of states; GaAs; Ge; *J.74A No. 3, 397-415 (1970). SP305-2.*
- Nondispersive x-ray analysis; Overheated receptacle; Scanning electron microscope; Aluminum wire; *16317. SP305-8.*
- Nondispersive x-ray analysis; Point Pleasant, W. Va. bridge; Scanning electron microscopy; Electron probe microanalysis; Ion microanalysis; Metallography; *11609. SP305-2.*
- Non-dispersive x-ray spectrometer; Corrosion; Pinhole-type defects; Porcelain enamel; Scanning electron microscope; Weathering tests; *13714. SP305-5.*
- Nondistortion part support; Position errors; Quality and compatible part material; Quality diamond tools; Controlled environment; Diamond machining; Machined optics; *SP435*, pp. 75-89 (Apr. 1976). **SP305-8.**
- Nondivergent radiation; Comment to editor; Discrete; Frequencies; *15163. SP305-7.*
- Non-donor attitudes; Blood banking; Donor attitudes; Donor eligibility; Donor participation rates; Donor recruitment; Donor retention; Foreign donor programs; *14992. SP305-7.*
- Nonejective fixed points; Nonrepulsive fixed points; Asymptotic fixed point theorems; Banach space; Compact mappings; fixed points; Flows; *13267. SP305-5.*
- Nonelastic interactions; Nuclear reactions; Sources and spectra; Cross-section data and systematics; Cross-section measurement; Excitation functions; Fast neutrons; *SP425*, pp. 664-673. **SP305-7.**
- Nonelastic scattering; Cosmic-ray reactions; Lunar chemistry; Lunar  $\gamma$ -rays; Neutron capture; *SP425*, pp. 540-545. **SP305-7.**
- Nonelectrolytes; Solvation; Sucrose solutions; Hydration; Mixed solutions; *9512. SP305-10.*
- Nonentertainment television; Two-way television; Wired city; Wired nation; Broadband interactive terminals; Cable television uses; Checkless society; Computer/communications networks; Computer/communications services; Computer/communications standards; *NBS-GCR-75-44. SP305-8.*
- Nonequilibrium; Oxygen atoms; RRKM; Thermal decomposition; Alcohols; Chemical activation; *15881. SP305-8.*
- Nonequilibrium; Spectral-intensity; Arc; Nitrogen; *11465. SP305-2.*
- Nonequilibrium gases; Stellar instability; Wolf-Rayet stars; Atomic cross sections; Atmospheric aerodynamics; Diagnostic spectroscopy; *SP307. SP305-1.*
- Nonequilibrium kinetic energy; Temperature; Total energy; Bulk viscosity; Macroscopic equations of motion; Macroscopic variable; *9313. SP305.*
- Nonequilibrium kinetics; Rate coefficients; Reaction cross sections; Cross sections; *10788. SP305-1.*
- Nonequilibrium processes; Nonlinear relaxation; Relaxation processes; Stochastic processes; Harmonic oscillators; Master equation; *9402. SP305.*
- Nonequilibrium state; Nonlinear theory; Plasticity; Thermodynamics; Viscoelasticity; Yielding; Anisotropy; Continuum mechanics; Entaxy; Entropy; Irreversibility; *12948. SP305-4.*
- Nonequilibrium statistical mechanics; Open systems; Thermal transport; Equations of motion; *12197. SP305-3.*
- Nonequilibrium statistical mechanics; Energy transport; Equations of motion; Exact flux operator; Heat conductivity; Heat wave equation; *10206. SP305-1.*
- Nonequilibrium thermodynamics; Oxidation of metals; Solid state diffusion; Transport in solids; Electrochemistry; Gibbs; Duhem; Local equilibrium; *14286. SP305-6.*
- Nonequilibrium thermodynamics; Porous media; Thermal transpiration; Transport phenomena; Viscous flow; Continuous systems; Diffusion flow; Discontinuous systems; Membranes; *10362. SP305-1.*
- Non-equivalence; Proton magnetic resonance spectroscopy; Superconducting solenoids; Carbohydrates; Fourier transform; Instrumentation; Iterative analysis of spectra; *13183. SP305-5.*
- Nonet of  $2^{++}$  mesons; Schwinger mass formula;  $SU(6)_c$ ; 40 representation; Higher symmetry scheme;  $\lambda$  quark content; *9332. SP305.*
- Nonfat dry milk, package quantities of; Package quantities of dry milk; Dry milk package quantities; Instant nonfat dry milk; *SP37-70. SP305-3.*
- Nonflame, atomization; Stray light; Xenon-mercury, arc lamp; Arsenic; Atomic absorption; Atomic spectrometry; Background, correction; *15894. SP305-8.*
- Nonflame graphite furnace; Sensitivity vs. precision and accuracy; Standard Reference Materials; Atomic absorption spectrometry; *SP422*, pp. 1045-1051 (Aug. 1976). **SP305-8.**
- Nongray; Wolf-Rayet nuclei; Central stars of planetary nebulae; Instability limit; *SP332*, pp. 54-60. **SP305-2.**
- Nonhomogeneous paths; Propagation of ground waves; Electromagnetic ground waves; Ground waves; *11018. SP305-2.*

- Nonhydrodynamic regime; Relaxation time; Transport coefficients; Zwanzig-Mori formalism; Hydrodynamic regime; Ideal gas memory function; Limit of stability; Metastable fluid states; 16601. **SP305-8.**
- Nonidentical amplifiers; Sine-wave comparison signal; Correlation radiometer; Differential time delay; Gain fluctuations; Imperfect multiplier; Noise comparison; 171C2-253, 153-170 (1967). **SP305.**
- Noninstantaneous effects; Nonlinear effects; Statistical mechanical theory; Transport properties; Current autocorrelations; Nonlocal effects; 12668. **SP305-4.**
- Non-inventions; Quasi-property; Right to royalties; Supplementary system; Traditional property-rights; Unrestricted copying; Useful service; Anti-trust violations; Better products; Copiers; Developer-producer's; Dormant patents; Higher productivity; 9780. **SP305-1.**
- Nonionic or ionic coreactants; Nuclear fluorine; Pentafluorobenzene; Direct replacement; High temperature; Mechanisms; 170A6-420, 473-480 (1966). **SP305.**
- on-ionizing EM radiation hazards; RF and microwave measurements; Standards; Calibrations; Laser calorimeters; Measurement assurance programs; SP456, pp. 417-425 (Nov. 1976). **SP305-8.**
- on-ionizing fields; Probes; Radiation; 16534. **SP305-8.**
- on-isothermal diffusion; Silver-aluminum; Thermomigration; Vacancies; Alloys; Aluminum; Copper-aluminum; 15774. **SP305-8.**
- on-isothermal kinetics; Polyethylene; Polymer degradation; Stability of polymers; Thermogravimetry; Energy of activation; Initial kinetic parameters; 9451. **SP305.**
- on-isothermal kinetics; Polymers; Pyrolysis; Thermal decomposition; Thermogravimetry; Thermolysis; Stability of polymers; Degradation; 170A6-422, 487-523 (1966). **SP305.**
- on-isothermal kinetics; Thermogravimetric variation of heating rates; Activation energy; Applied kinetic analysis; Determination of kinetic parameters; 9713. **SP305-1.**
- on-isotopic laser wavelengths; Isotopic laser wavelengths; 9199. **SP305.**
- on-leptonic  $\Omega^-$  decays; Paraquark model; Symmetric quark model; Three-triplet quark model; Color-quark model; Current algebra and pcc; 14569. **SP305-6.**
- on-linear; Non-Riemannian geometry; Torsion; Affine connection; Continuum; Defect; Deformation; Dislocation; 11287. **SP305-2.**
- on-linear; Numerical; Plasma; Truncation error; Vlasov equation; Expansion coefficients; Hermite polynomials; 173B No. 4, 281-291 (1969). **SP305-1.**
- on-linear; Numerical; Selective harmonic excitation; Two-stream; Velocity distribution; Vlasov equation; Electron trapping; 173B No. 4, 293-300 (1969). **SP305-1.**
- on-linear; Numerical solution; Plasma physics; Truncation; Vlasov equation; Eigenfunction; Landau damping; 10780. **SP305-1.**
- on-linear; Parametric amplifier; Active; Demodulation; Gyration; Harmonic generation; Modulation; 10593. **SP305-1.**
- on-linear; PVT; Statistical; Burnett; Gas; Model dependency; 11932. **SP305-3.**
- on-linear; Self focusing; Laser damage; SP387, pp. 42-48. **SP305-5.**
- on-linear; Stability; Surface tension; Cylinder; Ice; Morphology; 12386. **SP305-4.**
- on-linear; Subharmonics; 12217. **SP305-3.**
- on-linear; Thermodynamics; Weighting; Constraints; Curve fitting; Least squares; 10259. **SP305-1.**
- on-linear; Variational principle; Viscoelasticity; Anisotropy; BKZ fluid; Composite material; Continuum mechanics; Hyperelasticity; Isothermal; 13355. **SP305-5.**
- on-linear absorption; Nonlinear optical properties; Semiconductor optical properties; Two-photon absorption coefficients; Multiphoton processes; SP435, pp. 369-388 (Apr. 1976). **SP305-8.**
- Nonlinear amplification; Scanning electron microscope; Signal differentiation; Signal processing; Y-modulation; Black level suppression; 15425. **SP305-7.**
- Nonlinear analysis; Second virial coefficient; Burnett data reduction; Carbon dioxide; 14712. **SP305-6.**
- Nonlinear analysis; Single-lap joint bending; Spotwelded joints; Weldbonded joints; Bonded joints; Computer simulation; Cyclic loading; Debond analysis; Finite element analysis; Joints; 16147. **SP305-8.**
- Nonlinear analysis (shear); Potted end fittings; Structural engineering; Tensile strength; Transversely isotropic materials; Axisymmetric analysis; Cables (ropes); Composite materials; Contour plotting; End fittings for FRP rod and rope; Finite element analysis; 15399. **SP305-7.**
- Nonlinear analysis, shear; Reinforcement, composite overlay; Reinforcement, cutouts and cracks; Shear analysis, nonlinear; Adhesively bonded joints; Composite materials; Composite overlay reinforcement; Contour plotting; Cracks, reinforcement of; 13607. **SP305-5.**
- Non-linear behavior; Non-Newtonian fluids; Normal stresses; Pure shear; Simple extension; Simple shear; Stress relaxation; Time effects; Uniaxial strain; Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; 9583. **SP305-1.**
- Nonlinear behavior; Polyisobutylene; Stress relaxation; Viscosity; BKZ fluid; 175A No. 1, 33-40 (1971). **SP305-3.**
- Nonlinear behavior; Polyisobutylene; Recovery; Stress; Relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; 170A6-423, 525-532 (1966). **SP305.**
- Nonlinear behavior; Polyisobutylene; Polyvinylchloride; Recovery; Stress relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; 10144. **SP305-1.**
- Nonlinear behavior; Polyisobutylene; Polystyrene; Superposition; BKZ theory; Concentrated solutions; 14566. **SP305-6.**
- Nonlinear data analysis, pressurized emf of thermocouples; Pressure, effect on emf of thermocouples; Simulated experiment, pressurized emf of thermocouples; Temperature, measurement at high pressure; Thermocouples, effect of pressure on emf of; 12979. **SP305-4.**
- Nonlinear diffusion; Plasma; Radial distribution; Recombination mechanisms; Collisional-radiative recombination; Electron beam; Electron density; Light density; 9956. **SP305-1.**
- Nonlinear effects; Statistical mechanical theory; Transport properties; Current autocorrelations; Nonlocal effects; Noninstantaneous effects; 12668. **SP305-4.**
- Non-linear elasticity; Anisotropic elasticity; Anisotropic plasticity dislocations; Constitutive relations; Dislocation dynamics; SP317, pp. 837-876. **SP305-3.**
- Non-linear elasticity; Anisotropic elasticity; Dislocation dynamics; Dislocation; Elasticity; SP317, pp. 877-905. **SP305-3.**
- Nonlinear elasticity; Nonlinear strain measures; Point defects; Continuity equations; Continuous distribution of dislocations; Defect measures; Deformations of connections; Deformations of tensors; Dislocations; Imperfect continuum; 11612. **SP305-2.**
- Nonlinear elasticity; Phonons; Thermal conductivity; Dislocation mobility; Dislocation-phonon interactions; SP317, pp. 363-389. **SP305-3.**
- Non-linear estimation; Statistics; Statistical estimation; Biometrics; Exponential model; 10526. **SP305-1.**
- Nonlinear field theory; Nonlocal field theory; Fermion-boson interactions; Field theory; Gauge invariance; Hypercomplex coordinates; Interacting fields; 13279. **SP305-5.**
- Nonlinear index; Nonlinear susceptibility; Self focusing; Yttrium aluminum garnet; Ellipse rotation; Glass; SP387, pp. 11-24. **SP305-5.**
- Nonlinear index; Random index variation; Self focusing; Laser damage; SP387, pp. 49-56. **SP305-5.**

- Nonlinear index; Self focusing; Critical power; Laser damage; *SP387*, pp. 36-41. **SP305-5.**
- Nonlinear index of refraction; Optical glasses; Polarizer materials; Self-focusing; Absorption coefficient; Damage threshold; Electrostriction; Inclusion damage; Intrinsic damage; Kerr effect; Laser damage; Laser glasses; Laser rod materials; Modulator crystals; *NBSIR 74-458*. **SP305-6.**
- Nonlinear index of refraction; Optical distortion; Thermal fracture; Two-photon absorption; *SP435*, pp. 395-405 (Apr. 1976). **SP305-8.**
- Nonlinear index of refraction; Potassium dihydrogen phosphate; Self-focusing; Thermal self-focusing; Thorium-yttrium oxide ceramic; Yttrium aluminum garnet; Absorption coefficient; Calcite; Damage threshold; Deuterated potassium dihydrogen phosphate; *13793*. **SP305-5.**
- Nonlinear index of refraction; Self-focusing; Thermal self-focusing; Absorption coefficient; Damage threshold; Electrostrictive self-focusing; Electrostriction; Kerr effect; Laser damage; *13529*. **SP305-5.**
- Nonlinear index of refraction; Self-focusing; Thermal self-focusing; Absorption coefficient; Damage threshold; Electrostriction; Electrostrictive self-focusing; Kerr effect; Laser damage; *13964*. **SP305-6.**
- Nonlinear integral-differential equation; Spline theory; Differential equation; Fast Fourier transform; Josephson junction; *TN627*. **SP305-5.**
- Nonlinear least squares; Thermodynamic properties; Vapor pressure; Activity coefficients; Aqueous; Computer programs; Data evaluation; Electrolytes; Electromotive force; Isopiestic method; Osmotic coefficients; *TN928*. **SP305-8.**
- Nonlinear least-squares; Phase transitions; Specific heat; Static scaling; Critical exponents; Critical phenomena; Data analysis; Magnetic solids; *J. Phys. Chem. Ref. Data* 2, No. 1, 11-24 (1973). **SP305-6.**
- Nonlinear operation; Optical scanner; Reliability; Transistors; Failure analysis; Hot spots; Integrated circuits; Laser scanner; Measurement method; Nondestructive test; *SP400-27*. **SP305-8.**
- Nonlinear operator; Pair correlation function; Single particle probability density; Branching; Freezing points; Metastable fluids; *15178*. **SP305-7.**
- Nonlinear optical effects; Nonlinear optical susceptibility; Self-focusing; Three-wave mixing; Ac Kerr effect; Glasses; *SP414*, pp. 207-213. **SP305-6.**
- Nonlinear optical materials; Semiconductor materials; AgGaS<sub>2</sub>; Chalcogenides; Chalcopyrite; I-III-VI<sub>2</sub> compounds; Crystal growth; CuGaS<sub>2</sub>; CuInS<sub>2</sub>; D-bands; Direct bandgap semiconductors; *SP364*, pp. 671-679. **SP305-4.**
- Nonlinear optical phenomenon; Two-photon ionization; Atomic calculations; *9323*. **SP305.**
- Nonlinear optical properties; Semiconductor optical properties; Two-photon absorption coefficients; Multiphoton processes; Nonlinear absorption; *SP435*, pp. 369-388 (Apr. 1976). **SP305-8.**
- Nonlinear optical susceptibility; Optical properties; Semiconductors; Zincblende structure; ZnTe; Electronic density of states; Gallium arsenide (GaAs); Indium antimony (InSb); Indium arsenide (InAs); *SP323*, pp. 757-766. **SP305-4.**
- Nonlinear optical susceptibility; Self-focusing; Three-wave mixing; Ac Kerr effect; Glasses; Nonlinear optical effects; *SP414*, pp. 207-213. **SP305-6.**
- Nonlinear optics; Optical activity; Optical properties; Second harmonic generation; Selenium; *12203*. **SP305-3.**
- Nonlinear optics; Raman spectroscopy; CARS; Diphenylacetate (dilute solution); Four-wave numbering; HORSES; *15716*. **SP305-8.**
- Nonlinear optics; Transmission; Crystal growth; CsCuCl<sub>3</sub>; Electrooptic effect; Index of refraction; *12032*. **SP305-3.**
- Nonlinear parameters; Rms error; Analysis; Determinants; Experimental data; Multimode; *9867*. **SP305-1.**
- Nonlinear piezobirefringence; Photo-elasticity; Piezobirefringence; Piezooptical coefficients; Resonance-photoelasticity; Stress-birefringence; Absorption edge; Birefringence; Dispersion of piezobirefringence; Gallium arsenide; *10941*. **SP305-2.**
- Nonlinear programming; Nonrandom complex method; Optimization; Rib-stiffened plate; Structural analysis; Curved bar analysis; Discrete variables; Elastic; Force transducer; Minimum weight; *n*-degree elliptical ring; *J.72C No. 4*, 249-258 (1968). **SP305-1.**
- Nonlinear programming; Optimization; Proving ring; Structural design; Theory; Curved bar analysis; Elasticity; Force transducer; *n*-degree elliptical ring; *J.72C No. 2*, 139-160 (1968). **SP305-1.**
- Nonlinear propagation; Propagation codes; Self-focusing; Apodization; Beam breakup; Instability theory; *SP414*, pp. 7-16. **SP305-6.**
- Nonlinear refractive index; Optical glasses; Self-focusing; Thermal self-focusing; Yttrium aluminum garnet; Absorption coefficient; Electrostriction; Kerr effect; Laser damage; *SP387*, pp. 26-35. **SP305-5.**
- Nonlinear refractive index; Picosecond laser pulses; Avalanche ionization; Dielectric breakdown; Inclusions; Laser damage threshold; Morphology; *SP435*, pp. 321-330 (Apr. 1976). **SP305-8.**
- Nonlinear relaxation; Relaxation processes; Stochastic processes; Harmonic oscillators; Master equation; Nonequilibrium processes; *9402*. **SP305.**
- Nonlinear response; Odd-order; Turbulence; Correlations; Even-order; Grid; Hot-wire anemometer; Isotropy; *10345*. **SP305-1.**
- Nonlinear response theory; Nonlinear transport theory; Response functions; Transport coefficients; Isotherms; susceptibility; *9987*. **SP305-1.**
- Nonlinear rheology; Normal stresses; Pressure error; Second order fluid; Hole pressure; *11966*. **SP305-3.**
- Non-linear search; Chemical equilibrium; Chemical reaction; Equilibrium; Gases; Mass action; *12244*. **SP305-3.**
- Nonlinear series transformation; Numerical methods; Series summability methods; Convergence acceleration technique; Epsilon-transformation; *J.73B No. 1*, 25-29 (1969). **SP305-1.**
- Nonlinear shear behavior; Polyisobutylene; BKZ; *1450*. **SP305-6.**
- Nonlinear spectroscopy; Saturated absorption; Lasers; *1609*. **SP305-8.**
- Nonlinear strain measures; Point defects; Continuity equation; Continuous distribution of dislocations; Defect measure; Deformations of connections; Deformations of tensors; Dislocations; Imperfect continuum; Nonlinear elasticity; *1161*. **SP305-2.**
- Nonlinear susceptibility; Self focusing; Yttrium aluminum garnet; Ellipse rotation; Glass; Nonlinear index; *SP387*, pp. 1-24. **SP305-5.**
- Nonlinear theory; Plasticity; Thermodynamics; Viscoelasticity; Yielding; Anisotropy; Continuum mechanics; Entropy; Irreversibility; Non-equilibrium state; *12948*. **SP305-4.**
- Nonlinear transformation; Improper integrals; *J.72B No. 1*, 2-31 (1968). **SP305-1.**
- Nonlinear transformation; Improper integral; *J.74B No. 3*, 18-185 (1970). **SP305-2.**
- Nonlinear transformations; Rapidity of convergence; Aitk transformations; *G*-transformations; *J.73B No. 3*, 251-2 (1969). **SP305-1.**
- Nonlinear transport theory; Response functions; Transport coefficients; Isothermal susceptibility; Nonlinear response theory; *9987*. **SP305-1.**
- Nonlinearity; Photocell linearity; Photometric accuracy; Radiation addition method; *SP378*, pp. 63-79. **SP305-5.**



Nonlinearity; Photocell linearity; Photometric accuracy; Radiation addition method; *J76A No. 5, 437-453 (1972). SP305-4.*

Nonlinearity correction; Photomultiplier nonlinearity; Spectrophotometry; Double-aperture method; Light addition; *13044. SP305-4.*

Nonlinearity measurement; UHF transistor measurement; Active devices; Hot spots; Laser scanning; Logic flow observation; LSI testing; Nondestructive test; *15781. SP305-8.*

Nonlocal effects; Noninstantaneous effects; Nonlinear effects; Statistical mechanical theory; Transport properties; Current autocorrelations; *12668. SP305-4.*

Non-local elasticity; Solid mechanics; Green's tensor; Hooke's elasticity; *SP317, pp. 737-746. SP305-3.*

Non-local elasticity; Solid mechanics; Surface waves; Green's tensor; *SP317, pp. 747-759. SP305-3.*

Nonlocal field theory; Fermion-boson interactions; Field theory; Gauge invariance; Hypercomplex coordinates; Interacting fields; Nonlinear field theory; *13279. SP305-5.*

on-local hydrodynamics; Thermal diffusivity; Brillouin scattering; Carbon dioxide-light scattering; Critical point; Density fluctuations in fluids; Landau-Placzek intensity ratio; Negative dispersion; *9959. SP305-1.*

on-local theories; Solid mechanics; Wave propagation; Dilatation centers; Lattice statics; *SP317, pp. 729-736. SP305-3.*

on-local velocity; Canonical point-transformation; Dependent interaction; Equivalent non-singular potential; Hard-sphere gas; Kinetic equation; Many-body analysis; *10883. SP305-2.*

on-LTE; Chromospheres; Coronal; Extended atmospheres; Non-classical atmospheres; *SP332. SP305-2.*

on-LTE; Optical thickness; Saturation; Source-function; Absorption tube profiles; Equivalent-width; Line depth; Line-profiles; *11081. SP305-2.*

on-LTE; Radiative-control; Temperature-control-bracket; Boundary temperature; Collisional-control; *12360. SP305-3.*

on-LTE; Solar model; Upper photosphere; Carbon abundance; Molecular spectra; *15044. SP305-7.*

on-LTE effects on mechanical heating; Solar chromospheres; H<sup>+</sup> radiative losses; *12857. SP305-4.*

on-LTE line formation; Plages; Radiative transport; Solar chromosphere; Solar spectrum; Sunspots; Wilson-Bappu effect; Ca H and K lines; *12106. SP305-3.*

on-LTE line formation; Resonance lines; Solar UV lines; *SP332, pp. 65-84. SP305-2.*

on-LTE molecular spectra; Photospheres, stellar; Radiative transfer; Atomic abundances; CN spectra; *15418. SP305-7.*

on-LTE radiative transfer; Resonance lines, Ca II; Solar chromosphere, physical properties; Solar chromosphere, structure; Spectral line formation; Spectroscopic diagnostics; *12247. SP305-3.*

on-LTE radiative transfer; Resonance lines, Ca II; Solar chromosphere, physical properties; Spectral line formation; Spectroscopic diagnostics; *12248. SP305-3.*

on-LTE thermodynamics; Solar physics; Transition probabilities; Atomic energy levels; Gaseous nebulae; *SP353. SP305-3.*

onmagnetic facility; Pellat dynamometer; Proton precession frequency; Absolute ampere determination; Calculable inductor; Current balance; National electrical units; *9325. SP305.*

onmanufacturing businesses; SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; *SP345-5. SP305-3.*

onmercurial fungicides; Accelerated testing; Alkyd paints; Environmental chamber; Exterior exposure; Latex paints; *6416. SP305-8.*

onmetallics; Rectifiers; Water treatment; Anodes; Cathodic protection; Coatings; Corrosion; Deterioration; Inhibitors; Materials selection; *B5566, pp. 42-51. SP305-7.*

Non-metals; Overexcitation; Phosphorus; Spectrometry; Sulfur; Triple pass on-axis; Flame; Hydrogen; Long-path burner; Multichannel spectrometer; *12658. SP305-4.*

Nonmetals; Photoelectrolysis; Solid electrolytes; Surfaces; Catalysis; Characterization; Chemisorption; Electrochemical; Electrochemistry; Electrode processes; *SP455. SP305-8.*

Nonnegative matrices; Bounds; Eigenvalues; *J71B1-195, 39-41 (1967). SP305.*

Non-negative matrices; Permanents; Stochastic matrices; Minors; *9609. SP305-1.*

Nonnegative matrix; Perron-Frobenius eigenvalue; Spectrum of a square complex matrix; D-stable matrix; Field of values; Gersgorin's theorem; *15770. SP305-8.*

Non-negative row-stochastic matrix; Permenental inequality; Row-stochastic matrix; *10252. SP305-1.*

Non-Newtonian fluids; Normal stresses; Pure shear; Simple extension; Simple shear; Stress relaxation; Time effects; Uniaxial strain; Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; *9583. SP305-1.*

Non-Noetherian ring; Principal ideal ring; Dedekind ring; Matrix ring; *J73B No. 3, 211-213 (1969). SP305-1.*

Non-planar; Patterns; Scanning; Spherical; Symmetry; Antennas; Arrays; Coordinate transformations; Data processing; Group representations; Measurements; Near field; *NBSIR 75-809. SP305-7.*

Nonplant treatment; Sewage treatment; User fees; Water pollution; Cost sharing; Efficiency; Equity; Financing; *NBSIR 74-479. SP305-6.*

Nonpolar gases; Quantum gases; Third virial coefficients; Virial equation; *10329. SP305-1.*

Nonpolar systems; Radiation chemistry; Radiation physics; Electrons; Free ions; Ion yields; Liquid; *NSRDS-NBS57. SP305-8.*

Nonpolymeric constituents in plastics; Plastics testing; Polymer analysis; Properties; Test methods; *16225. SP305-8.*

Nonradiative rates; Oscillator strengths; Quantum efficiencies; Radiative rates; Rare earths; Silicate glasses; Europium; Fluorescence; Lifetimes; Luminescence; *14276. SP305-6.*

Non-radiative recombination centers; Radiative recombination; Temperature dependence; Valence band; Band tailing; GaAs lasers; *11791. SP305-2.*

Nonrandom complex method; Optimization; Rib-stiffened plate; Structural analysis; Curved bar analysis; Discrete variables; Elastic; Force transducer; Minimum weight; n-degree elliptical ring; Nonlinear programming; *J72C No. 4, 249-258 (1968). SP305-1.*

Nonrandom diffusion; Vacancy wind effect; Correlation factor; Diffusion; Divacancy; Driving force for diffusion; Impurity diffusion; Ion drift velocity; *15542. SP305-7.*

Nonrandom walk equation; Atom migration; Correlation factor; Crystal defect; Diffusion coefficient; Matrix equations; *15776. SP305-8.*

Nonreactive lubricants; Rust inhibited perfluoro greases; Surface chemistry lubrication; Chemisorption; Corrosion preventives; Inhibitor additives; LOX compatible greases; *SP452, pp. 106-119 (Sept. 1976). SP305-8.*

Nonreciprocal; Scattering parameters; Two-port; Measurement; Microwave; Network; *10815. SP305-1.*

Nonreciprocal multiports; Thermal noise; Available power ratio; Microwave multiport; *11176. SP305-2.*

Nonrepulsive fixed points; Asymptotic fixed point theorems; Banach space; Compact mappings, fixed points; Flows; Nonjective fixed points; *13267. SP305-5.*

Nonresonant; Microwave absorption; Cobalt tricarbonyl nitrosyl; Dipole moment; Gas phase; *10394. SP305-1.*

Nonresonant; Potential curves; Resonant; Spin exchange; Adiabatic collisions; Charge transfer; *15875. SP305-8.*

Nonresonant cavity; Spectroscopy; Absorption cell; Far infrared; *12698. SP305-4.*

- Nonresonant system; Short circuited waveguide; Cavity resonator model; Ferromagnetic resonance measurement; *10018. SP305-1.*
- Nonreversing walk; Polymer dimension; Random walk; Lattice; *J.73B No. 1, 45-46 (1969). SP305-1.*
- Non-Riemannian geometry; Affine connection; Continuum mechanics; Kinematics; *SP317*, pp. 999-1020. **SP305-3.**
- Non-Riemannian geometry; Stress; Affine connection; Continuum mechanics; *SP317*, pp. 943-962. **SP305-3.**
- Non-Riemannian geometry; Torsion; Affine connection; Continuum; Defect; Deformation; Dislocation; Nonlinear; *11287. SP305-2.*
- Non-Riemannian theories; Plasticity; Yielding; Continuum mechanics; *SP317*, pp. 761-784. **SP305-3.**
- Non-rigid molecules; Permutation-inversion group; Vibrational coordinates; Double-valued presentation; Free internal rotation; Hamiltonian energy operator; *13647. SP305-5.*
- Non-selfintersecting walks; Polymer configurations; Random walks; Boltzmann factors; Importance sampling; Monte Carlo; *J.76B Nos. 3 and 4, 193-200 (1972). SP305-4.*
- Non-spherical interactions; Oxygen; Second virial coefficient; Thermal conductivity coefficient; Thermal diffusion factor; Viscosity coefficient; Critically evaluated data; Dilute polyatomic gas; *J. Phys. Chem. Ref. Data 2, No. 4, 735-756 (1973). SP305-6.*
- Non-spherical interactions; Polarizability; M-6-8 potential; Quadrupole moment; Second virial coefficients; Viscosity coefficient; *13229. SP305-5.*
- Non-spherical molecules; Ornstein-Zernike theory; Thermal conductivity; Correlation length; Critical point; Gas-liquid; *16484. SP305-8.*
- Nonstandardized thermocouples; Refractory metal thermocouples; Standardization; Temperature measurement; Thermocouples; Thermometry; Base-metal thermocouples; Cryogenic thermocouples; Noble-metal thermocouples; *15517. SP305-7.*
- Nonstoichiometric; Crystal structure; Crystallographic shear; High temperature  $Ta_2O_5$ ; *12740. SP305-4.*
- Non-stoichiometric phase; System  $K_2O \cdot Li_2O \cdot TiO_2$ ; Coordination of  $Li^+$  ion; Crystal structure; *13249. SP305-5.*
- Nonstoichiometric phases; Osmium alloys; Platinum alloys; Transition elements; Alloy phases; Atomic ordering; A15-type phases; Chromium alloys; Electron compounds; Intermediate phases; *9517. SP305.*
- Nonstoichiometry; Octacalcium phosphate; Solubility; Surface; Amorphous calcium phosphate; Bone mineral; Fluorapatite; Hydroxyapatite; Morphology; *16307. SP305-8.*
- Non-stoichiometry; Order oxygen vacancies; Tantalum oxide; Tantalum tungsten system; Crystal structure; *11558. SP305-2.*
- Nonstoichiometry; Oxidation-reduction; Phase equilibria; Transition-metal oxides; Alkaline earth oxides; *13186. SP305-5.*
- Nonstoichiometry; Oxides; Ceria; Crystal defects; Diffusion; Mass transport; *SP364*, pp. 353-365. **SP305-4.**
- Nonstoichiometry; Oxides; Refractory hard metals; Solid State Chemistry; Chalcogenides; Crystallographic shear; Electron optical lattice images; Lone pair geometry; *SP364. SP305-4.*
- Nonstoichiometry; Oxides; Thermodynamics; Actinide oxides; Actinide sesquioxides; Americium oxides; Berkelium oxides; Curium oxides; Melting points of actinide oxides; *SP364*, pp. 319-330. **SP305-4.**
- Nonstoichiometry; Phase composition; Phase stability; Atomic ordering; A15 compounds; Intermetallic compounds; *15848. SP305-8.*
- Nonstoichiometry; Phase equilibria;  $SrMnO_{3-x} - Mn_2O_4$  system;  $SrMnO_{6-x}$ ; *13478. SP305-5.*
- Nonstoichiometry; Phase relations; Chalcocite;  $Cu_2S$ ; Digenite; Djurleite; *SP364*, pp. 703-712. **SP305-4.**
- Nonstoichiometry; Polymolecular frameworks; Rare earth optical spectra; Rare earth oxide; Refractory materials; Thin films;  $4f^1$  configurations; Complex ions; Coordination polyhedra; *SP364*, pp. 367-383. **SP305-4.**
- Nonstoichiometry; Potassium antimonate; Rubidium niobate; Rubidium tantalate; Sodium antimonate; Sodium antimonate fluoride; Ionic conductivity; *15439. SP305-7.*
- Nonstoichiometry; Reaction mechanisms; Thermodynamics; Tungsten bronze; Crystal growth; Electrolysis; *SP364*, pp. 51-62. **SP305-4.**
- Nonstoichiometry; Scandium oxide; Crystal growth; F centers; Flame fusion; Magnetic susceptibility; *SP364*, pp. 385-395. **SP305-4.**
- Nonstoichiometry; Solid-to-solution ratio; Solubility; Surface chemistry; Hydroxyapatite; *15195. SP305-7.*
- Nonstoichiometry in liquid  $CoO$ ; Solar furnace; Thermal analysis;  $CoO-O_2$  system; Melting point depression; *SP364*, pp. 471-481. **SP305-4.**
- Nonstructural safety; Occupational hazards; Performance standard; Personnel railings; Personnel safety; Static loads; Stiffness; Structural safety; Design; Dynamic loads; Guardrails; Industrial accidents; *NBSIR 76-1131. SP305-8.*
- Nonstructural safety; Occupational hazards; Performance standard; Personnel railings; Personnel safety; Structural safety; Anthropometric measurements; Guardrails; Industrial accidents; *NBSIR 76-1132. SP305-8.*
- Nontransition elements; Semiempirical rules; Atoms; Extrapolation; Ionization potentials; *13835. SP305-6.*
- Nontrivial linear associative algebras; Nonzero element; Algebras; *10548. SP305-1.*
- Nonuniformly spaced antenna arrays; Synthesizing nonuniformly spaced antenna arrays; Amplitude excitations; Antenna arrays; Element spacings; *10197. SP305-1.*
- Nonvanishing electron spin; Rotational excitation; Slow electrons; Electrons; Electron spin; Modular rotation; *973. SP305-1.*
- Nonzero element; Algebras; Nontrivial linear associative algebras; *10548. SP305-1.*
- Norbert Wiener; Office of Weights and Measures; Path-space measure; Pierre Simon de Laplace; Rejection of observation; Stirling's formula; Stirling's numbers; *Théorie analytique des probabilités*; William Chauvenet; *11618. SP305-2.*
- Norm bounds; Vector bounds; Volterra vector integral equations; Asymptotic solutions; Eigenvalues; Error term; Matrices; *J.70B3-180, 167-186 (1966). SP305.*
- Normal; Similar; Spectrum; Unitary; Adjoint; Hilbert's Theorem 90; Involutions; *14891. SP305-7.*
- Normal and abnormal vision; Ambient-light color; Color; Color appearance; Color-matching; *9817. SP305-1.*
- Normal and supercooled liquid; Quenched glass; Residual (configurational) entropy; Thermodynamic properties; Annealed glass; Crystal; Diethyl phthalate; Glass transformation; Heat capacity calorimetry; *J.71A4-461, 293-305 (1966). SP305.*
- Normal and supercooled liquid; Rubber, natural; Thermal conductivity; Thermodynamic properties; Annealed and quenched glass; Calorimetry; *cis-1,4-polyisoprene*; Glass transformation; Heat capacity; Natural rubber; *J.75A No. 2, 113-120 (1971). SP305-3.*
- Normal approximation; Poisson distributions; Scribner's Classical Statistical test; William Buckley; Abraham De Moivre; *Annals upon Lives*; "Argument for Divine Providence"; *Arithmetica Memorativa*; Bernoulli's theorem; *9695. SP305.*
- Normal boiling point; Vapor pressure data; Vapor pressure equation; Critical point pressure; Fluorine; *11835. SP305-7.*
- Normal butane; Saturated liquid; Table; Density; Experimental magnetic suspension densimeter; *16646. SP305-8.*
- Normal consistency; Tensile strength; Time of setting; Viscosity; Autoclave soundness; Hydraulic cement; *10907. SP305-2.*

- Normal coordinate analysis;  $O_2$ ; Ultraviolet spectrum; Vacuum-ultraviolet photolysis;  $ClO_2$ ; H-atom reaction;  $HO_2$ ;  $H_2O_2$ ; Infrared spectrum; Matrix isolation; 12809. SP305-4.
- Normal coordinate analysis; Photolysis; Thermodynamic properties; C≡N bond; Infrared spectrum; Isotopic substitution; Matrix isolation; Methyl azide; Methylenimine; 15110. SP305-7.
- Normal distribution; Order statistics; Probability plot; Statistical methods; Statistics; Tests of distributional hypotheses; Correlation coefficient; Medians; 14856. SP305-7.
- Normal distribution; Polynomials; Probability density function; Quadrature; Stable distribution; Sums of independent random variables; Tables; Truncation; Accuracy; Approximations; Asymptotic expansion; J.77B Nos. 3 and 4, 143-198 (1973). SP305-5.
- Normal distribution; Significance tests; Standards; Statistics; Acceptance tests; Confidence intervals; Criminalistics; Errors; Goodness of fit; 15279. SP305-7.
- Normal distribution; Statistics; Tolerance limits; Noncentral  $t$ -distribution; J. Res. 80B No. 3, 343-346 (1976). SP305-8.
- Normal emissivity; Radiation; Reflectance; Cavity; Cylindrical cavity; Diffusely reflecting; Emissivity; J.76A No. 4, 347-349 (1972). SP305-4.
- Normal fluid viscosity; Third sound; Energy attenuation; Helium film; Liquid helium; 9992. SP305-1.
- Normal hydrogen; Parahydrogen; Thermal conductivity; Critical region; 11827. SP305-3.
- Normal hydrogen-neon; Argon-methane; Binary liquid mixtures; Excess Gibbs free energy; Excess thermodynamic properties; Heat of mixing; Liquid-vapor equilibrium data; Normal deuterium-neon; 12588. SP305-4.
- Normal liquids; Sound; Acoustic properties of liquids; Acoustics; Knester liquids; 16170. SP305-8.
- Normal matrices; Schur's lemma; Simultaneous triangularization and diagonalization; Commuting matrices; Group representations; J.71B243-201, 69-71 (1967). SP305.
- Normal matrix; Numerical range; Orthogonal; Spectrum; Eigenvector; 16348. SP305-8.
- Normal matrix; Positive definite; Field of values; Hermitian matrix; 15172. SP305-7.
- Normal mode; Polyethylene; Quasi-harmonic specific heat; String of beads; Thermal expansion; Thermal properties; Volume; Bulk modulus; Grüneisen;  $n$ -alkanes; 12305. SP305-3.
- Normal mode analysis; Polyglycine I; Frequency distribution; Lattice vibrations; 14389. SP305-6.
- Normal modes; Strainmeter; Earth tides; Interferometer; 13670. SP305-5.
- Normal ordering of operators; Operator identities; Parameter differentiation; Quantum statistics; Similarity transformations; Weyl prescription; Baker-Campbell-Hausdorff formula; Density matrix; Differential equations; Expansions; Exponential operators; 10130. SP305-1.
- Normal spectral emittance; Radiance temperature; Zirconium; Electrical resistivity; High-speed measurements; High temperature; Melting point; 15612. SP305-7.
- Normal spectral emittance; Radiance temperature; High-speed measurements; High temperature; Iron; Melting; J.79A No. 4, 541-544 (1975). SP305-7.
- Normal spectral emittance; Refractory materials; Thermophysics; Alloys; Electrical resistivity; High temperature; Melting point; J.78A No. 1, 5-8 (1974). SP305-6.
- Normal spectral emittance; Surface roughness; High temperature; Melting; Niobium; 13860. SP305-6.
- Normal spectral emittance; Tantalum; Thermal radiation properties; Emittance; High-speed measurements; Melting; 12307. SP305-3.
- Normal stress; Polystyrene solutions; Standard sample; Streaming birefringence; Molecular weight distribution; 14128. SP305-6.
- Normal stress; Pressure hole errors; Shearing flows; Hole pressure; 13894. SP305-6.
- Normal stresses; Pressure error; Second order fluid; Hole pressure; Nonlinear rheology; 11966. SP305-3.
- Normal stresses; Pure shear; Simple extension; Simple shear; Stress relaxation; Time effects; Uniaxial strain; Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; Elastic strain energy function; Finite strain; 9583. SP305-1.
- Normal stresses; Rheology; Rheometer; Viscoelasticity; J.74C Nos. 1 and 2, 18-19 (1970). SP305-2.
- Normal subgroup; Triangle group; Element of finite order;  $F$ -group; J.74B No. 4, 231-233 (1970). SP305-2.
- Normal subgroups; Genus; Index; Modular group; J.74B No. 2, 121-123 (1970). SP305-2.
- Normal subgroups; Parabolic classes; Congruence groups; Modular group; 9375. SP305.
- Normality; Field; Matrices; J. 76B Nos. 3 and 4, 119-143 (1972). SP305-4.
- Normality; Order statistics; Probability plot correlation coefficients; Probability plots; Statistics; Correlation coefficient; Data analysis; Distribution analysis; Estimation; Fortran subroutine; Lambda distribution; Medians; 14341. SP305-6.
- Normalization; Standard reference materials; Thermal ionization; Isotope dilution; Isotopes; Mass spectrometry; Molybdenum; Nickel; 14904. SP305-7.
- Normalization; Strength functions; Capture; SP425, pp. 584-586. SP305-7.
- Normalization; Westcott  $g$ -factor;  $^{241}\text{Pu}$  fission cross-section; SP425, pp. 603-606. SP305-7.
- Normalization factors; Process activity; Unidentified process losses; Inventory fluctuations; Measurement errors; 12870. SP305-4.
- Normalizer; Solvable group; Character; Cosets; Matrix representation; Nilpotent group; J.76B Nos. 1 and 2, 45-50 (1972). SP305-4.
- Normalizing; Stainless steels; Structural steels; Surface hardening; Tempering; Tool steels; Annealing; Case hardening; Chemical composition; Hardening; Heat treatment; Ni-maraging steels; Mono. 88. SP305.
- Normally distributed points; Numerical analysis; Optimization; Stochastic Weber problem; Always convergent algorithms; Exponentially distributed points; Facility location; Location theory; J. Res. 80B No. 1, 53-73 (1976). SP305-8.
- Norms; Wirtinger; Inequalities; J.70B3-184, 221-231 (1966). SP305.
- Notation; Optical density; Propagation; Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; Absorbance; Contrast; Modulation; 9373. SP305.
- Notation; Optical density; Propagation; Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; Modulation; 15564. SP305-7.
- Notch geometry; Stress concentration; Stress-rupture; Titanium alloy; Creep; Elevated temperature; Engineering design; J.74C Nos. 1 and 2, 27-37 (1970). SP305-2.
- Notch geometry; 310 stainless steel; Stress concentrations; Tensile deformation; Workhardening; Fracture; Initial cracking; Multiaxial stresses; 9735. SP305-1.
- Notch wattmeter; Pulse-CW equalization; Pulse modulated carrier systems; Rf peak pulse power; TN682. SP305-8.
- Notch-tensile; Tensile; Welded; Brazed; Copper; Low temperature; 11432. SP305-2.
- Notes; Crystallization; 13118. SP305-5.
- Novae shell; Expansion; Ionization; SP332, pp. 290-294. SP305-2.
- Novosibirsk; Pressure-broadened line shapes; Soviet Union; Submillimeter waves; High resolution molecular spectroscopy; Lasers; Meeting report; 16010. SP305-8.

- $\text{NO}_2$  detection; Quantitative detection; Infrared detection; Laser magnetic resonance; Modulated absorption; Nitrogen dioxide; 16623. SP305-8.
- Nozzle; Porous plug; Sulfur dioxide concentration; Air pollution; Critical flow; Laminar flow; NBSIR 73-414. SP305-6.
- Nozzle; Porous plug; Sulfur dioxide concentration; Carbon dioxide concentration; Air pollution; Critical flow; Laminar flow; NBSIR 74-612. SP305-7.
- Nozzle; Tube; Mass-limiting two-phase flow; 9693. SP305-1.
- Nozzles, volumetric; Calibration; Critical flow; Gas flow; Measurement; 14654. SP305-6.
- $\text{NO}_2$ ; Absorption spectroscopy; Air pollution; Laser; 15101. SP305-7.
- $\text{NO}_2$ ; Electron impact; Energy loss; Excitation; 14808. SP305-7.
- $\text{NO}_2$ ;  $\text{NO}_2^+$ ; Photoionization; Threshold; Ultraviolet; Vacuum; Dissociation; Fragment ions; Ionization; Mass spectrometer; Molecule; J.71A5-467, 371-378 (1967). SP305.
- $\text{NO}_2^-$ ;  $\text{N}_2\text{O}_2^-$ ;  $\text{O}^-$  reactions; Alkali metal reactions; Charge transfer; Electron attachment; Infrared spectrum; Matrix isolation;  $\text{NO}^-$ ; 12415. SP305-4.
- $\text{NO}_2^-$ ; Photodetachment; Photoionization; Alkali metal reactions; Electron attachment; Infrared spectrum; Matrix isolation; 13705. SP305-5.
- $\text{NO}_2$ ; Photoelectron spectroscopy; Rydberg series; Electron spectroscopy; 12065. SP305-3.
- $\text{NO}_2$ ; Reaction of OH with CO; Ultraviolet spectrum; Vacuum-ultraviolet photolysis of HCN, of halogen cyanides, of  $\text{CH}_4$ , of  $\text{CH}_3\text{Cl}$ , of  $\text{CH}_3\text{OH}$ , of  $\text{C}_2\text{H}_2$ , of  $\text{HCCl}_3$ ; Free radicals;  $\text{HAr}_n^+$ ; 14241. SP305-6.
- $\text{NO}_2$ ; Spectra; Dipole moment; Excited states; MC-SCF; Molecular geometry; 15336. SP305-7.
- $\text{NO}_2$ ; Spectra; Temperature effects; Absorption; Extinction coefficients;  $\text{N}_2\text{O}_4$ ; J. Res. 80A No. 2, 143-166 (1976). SP305-8.
- $\text{NO}_2$ ; Spectroscopy; HCN laser; Laser magnetic resonance; 12936. SP305-4.
- $\text{NO}_2$ ; Spin splitting;  $2\nu_2$ ; Coriolis resonance; High resolution; Infrared; 14769. SP305-7.
- $\text{NO}_2^+$ ; Photoionization; Threshold; Ultraviolet; Vacuum; Dissociation; Fragment ions; Ionization; Mass spectrometer; Molecule;  $\text{NO}_2$ ; J.71A5-467, 371-378 (1967). SP305.
- $n$ -p; Scattering; Time-of-flight; Cross section; Hydrogen; Neutron; 12478. SP305-4.
- $n$ -paraffins; Pair distributions; Phase diagrams; Crystal growth; Kinetics; Multicomponent systems; J.71A4-457, 245-259 (1967). SP305.
- $n$ -paraffins; Phase transition; Temperature dependence; X-ray diffraction; Defects; J.74A No. 2, 203-214 (1970). SP305-2.
- $n$ -paraffins; Phase transitions; X-ray scattering; Dielectric loss; J.78A No. 2, 131-141 (1974). SP305-6.
- $n$ -paraffins; Polyethylene; Thermodynamic properties; Convergence temperature; Melting temperatures; Methyl surfaces; J.70A6-421, 481-486 (1966). SP305.
- $n$ -paraffins; Polyethylene phonon dispersion curves; Raman spectroscopy-lattice vibrations; 13655. SP305-5.
- $n$ -paraffins; Polymorphism; Raman spectroscopy; Chain-folded polyethylene crystals; Longitudinal acoustical modes; 14398. SP305-6.
- $n$ -pentane; Thermodynamics; Evaluated data; Liquid-vapor equilibria; Methane- $n$ -pentane system; NSRDS-NBS32. SP305-2.
- NPL of India; Designing to specification; Fabrication of balances; Legal metrology; Mass standards; SP335, pp. 121-124. SP305-3.
- NPL of UK; Potential-divider resistor; Quantum standard of voltage; Solder-drop Josephson junctions; Superconductivity; Inductive ratio divider; Josephson effect; SP335, pp. 111-115. SP305-3.
- $n$ - $p$ - $n$  transistor fabrication;  $p$ - $n$  junctions; Resistivity; Semiconductor electronics; Sheet resistors; Silicon; Test pattern; Test structures; Dopant density; Microelectronics; MOS capacitors; SP400-22. SP305-8.
- $n$ -pristane;  $n$ -tetracosane;  $n$ -tetraonacontane; Vaporization; Alkanes; Heats;  $n$ -hexatricontane; 11840. SP305-3.
- $n$ -propyl radical;  $s$ -butyl radical; Shock tube;  $t$ -butyl radical; Thermal decomposition; 2,2,3-trimethylpentane; Bond energy; Cyclohexyl radical; 3,4-dimethylhexane; Heats of formation; 12562. SP305-4.
- NQR; CMN; Ideal paramagnet; NMR; 12972. SP305-4.
- Nqr; Nuclear induction; Signal averaging; Frequency-sweep; Injection-locking; Nmr; 12875. SP305-4.
- NQR; Nuclear quadrupole coupling; Organotin; Organometallic; Mössbauer; 14816. SP305-7.
- NQR; Nuclear spin-spin relaxation; Nuclear spin-lattice relaxation;  $\text{PrCl}_3$ ; Antiferromagnet; NMR; 11382. SP305-2.
- NSF; RANN; R & D incentives; Tissue characterization; Tissue signature; Ultrasonic diagnosis; Ultrasound; Applied research; Imaging; Instrumentation technology; Medical ultrasonics; SP453, pp. 7-10 (Oct. 1976). SP305-8.
- NSRDS; Office of Standard Reference Data; Questionnaire; Survey; Users; American Chemical Society; Chemical and physical properties; Compilation; Data; 10123. SP305-1.
- NSRDS; Physical chemistry; Reference data; Status report; Compilation; Critical evaluation; Data; 13903. SP305-6.
- NSRDS; Physical properties; Standard reference data; Critical evaluation; Information centers; Information services; 10310. SP305-1.
- NSRDS; Physical properties; Standard reference data; Critical evaluation; Information centers; Information services; 11577. SP305-2.
- NSS; Optimum filter; Phase noise; Radio propagation; Time comparison; USNO; VLF propagation; WWVL; Effect of mass on frequency; Flicker noise; NBS; Noise correlation; 11241. SP305-2.
- NTA; Water analysis; Water pollution; Chemical analysis; Nitroliotractic acid; 14622. SP305-6.
- $n$ -tetracosane;  $n$ -tetraonacontane; Vaporization; Alkanes; Heats;  $n$ -hexatricontane;  $n$ -pristane; 11840. SP305-3.
- $n$ -tetraonacontane; Vaporization; Alkanes; Heats;  $n$ -hexatricontane;  $n$ -pristane;  $n$ -tetracosane; 11840. SP305-3.
- $n$ -type;  $P$ -type; Resistivity; Silicon; Temperature coefficient; Extrinsic exhaustion region; Germanium; 10736. SP305-1.
- $n$ -type gallium arsenide; Photoluminescence; Temperature dependence; Band tailing; Gallium arsenide; Indirect valley; 12343. SP305-3.
- $n$ -type silicon; Resistivity inhomogeneities; Spreading resistance; Striations; Absolute measurements; Aluminum-silicon contact; Four-point probe measurements; Local resolution; SP400-10, pp. 109-122. SP305-6.
- Nu-bar;  $^{255}\text{Cf}$ ; Eta; Fissile nuclei; Manganese bath; SP425, p. 262-265. SP305-7.
- Nuclear; NIM; Standards; Instrumentation; Instrumental Modules; TN556. SP305-2.
- Nuclear; On-line; Computer; Data handling; Instrumentation; 9600. SP305-1.
- Nuclear; Photons; Photonuclear; Protons; Reactions; Theoretical; Experiment; Neutrons; 13187. SP305-5.
- Nuclear; Power; Radiation; Reactor; Research; Utilities; Biology; Career; Ecological; Electricity; Energy; Environment; Fusion; Medicine; TN888. SP305-7.
- Nuclear; Pulse; Quadrupole; Resonance; Spectroscopy; Transistor; Zeeman; Current; Modulator; 12350. SP305-3.
- Nuclear; Radioactive tracers; Neutron activation analysis; Neutron gaging; Neutron radiography; Nondestructive evaluation; 15956. SP305-8.
- Nuclear; Safeguards; Standards; Fuel; Materials accountability; Measurements; 16481. SP305-8.



- Nuclear; Safeguards; Traceability; Calibration; Measurement; Nondestructive assay; *16414.. SP305-8.*
- Nuclear; Standard; Instrument; Interchangeability; Modules; *10528. SP305-1.*
- Nuclear; Standard; Instrument; Interchangeability; Modules; *10216. SP305-1.*
- Nuclear; Standards; CAMAC; Data; Dataway; Digital; Instrumentation; Modules; *12142. SP305-3.*
- Nuclear; Standards; CAMAC; Dataway; Instrumentation; Modules; *13316. SP305-5.*
- Nuclear; Standards; Technology; Biomedical; Conference; Cross section; *SP425, Volumes I and II. SP305-7.*
- Nuclear; Transition; Ultrasonically; Hexadecapole; Induced; *9356. SP305.*
- Nuclear activation analysis; Particulate analysis; Polarography; Spark source mass spectrometry; Spectrophotometry; Trace elements; Water pollution; X-ray fluorescence; Air pollution; Atomic absorption; Electron microprobe; Emission spectroscopy; *13783. SP305-5.*
- Nuclear activation analysis; Phenylmercuric acetate; Freeze-drying; Lyophilization; Mercury; Mercury loss; Methylmercury; *13493. SP305-5.*
- Nuclear activation analysis; Roofing systems; Tooth decay; Disaster losses; Energy systems; Flammable fabrics (FFACTS); Metric; *TNB 57, No. 5, 101-128 (1973). SP305-5.*
- Nuclear alignment; Nuclear deformation; Optical model; Van de Graaff; 14 MeV neutrons;  $^{16}\text{O}$ ; Black nucleus model; Cryogenic target; Coupled-channel calculation; *9362. SP305.*
- Nuclear and radiation physics; Linac; NBS; Linear electron accelerator; *10668. SP305-1.*
- Nuclear backscattering analysis; Scanning electron microscopy; Thin films; X-ray analysis; Electron probe microanalysis; Monte Carlo electron trajectory calculations; *SP460, pp. 129-138 (Dec. 1976). SP305-8.*
- Nuclear binding energies; Nuclear quartets; Nuclear reactions; Nuclear structure; Quartet model; Super-multiplet theory; *13361. SP305-5.*
- Nuclear charge; Oscillator strength; Perturbation theory; Systematic trend; *11194. SP305-2.*
- Nuclear charge dependence; Systematic trends; Atomic oscillator strengths; Beam foil spectroscopy; Isoelectronic sequences; *11195. SP305-2.*
- Nuclear charge distribution; Nuclear radii; Titanium isotopes; Elastic electron scattering; *12510. SP305-4.*
- Nuclear charge distribution; Nuclear structure; Short range correlations; Electron scattering; Hydrodynamic model; Isospin mixing; *12854. SP305-4.*
- Nuclear charge distribution; Nuclear structure; Three-fluid model; Two-fluid model; Excess neutrons; Isospin; *12114. SP305-3.*
- Nuclear charged density; Nuclear models; Nuclear structure; Collective model; Giant resonances; Isospin purity; *15018. SP305-7.*
- Nuclear collective model; Adiabatic approximation; Adiabatic separation method; Coupled oscillators; Matrix diagonalization; *11613. SP305-2.*
- Nuclear collectivity; Nuclear Ramsauer effect; Optical model; Total neutron cross section; Coupled channel calculations; Holmium<sup>163</sup>; *13424. SP305-5.*
- Nuclear continuum states; Nuclear reactions; Nuclear scattering; Scattering matrix; Shell model; S-matrix eigenstates; *658. SP305-1.*
- Nuclear cross-sections; Nucleus; Optical model scattering; Calculations; Cross-section; Neutron; *9747. SP305-1.*
- Nuclear data; Nuclear technology; Reactors; Cross sections; Neutrons; *SP299, Volumes I and 2. SP305-1.*
- Nuclear data; On-line; Programs; SDS 920; Digital computer; Experiment; Modular; *10138. SP305-1.*
- Nuclear data; Parameter; Reactivity; Lattices; *SP425, pp. 7-13. SP305-7.*
- Nuclear data; PHENIX; FBR development; Integral experiments; *SP425, pp. 51-61. SP305-7.*
- Nuclear data; Plutonium; Uranium; Evaluation; *SP425, pp. 313-316. SP305-7.*
- Nuclear data; Slowing-down spectra; Energy deposition spectra; Fast neutrons; Initial spectra; Microdosimetric parameters; *15950. SP305-8.*
- Nuclear data; Solid state data; Standard reference data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design and development; Information services; Mechanical properties; *TN448. SP305-1.*
- Nuclear data; Solid state data; Standard reference data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; Mechanical properties; *TN553. SP305-2.*
- Nuclear data; Solid state data; Standard reference data; Thermodynamic data, transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Mechanical properties; *TN881. SP305-7.*
- Nuclear data; Standard reference data; Solid state data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; Mechanical properties; *TN747. SP305-4.*
- Nuclear data for fusion; Fusion reactor design; *SP425, pp. 646-650. SP305-7.*
- Nuclear decay; Pressure calibrations; Spectroscopy; X-ray diffraction; Diamond cell; Electrical resistance; High pressure; *16375. SP305-8.*
- Nuclear deformation; Optical model; Van de Graaff; 14 MeV neutrons;  $^{16}\text{O}$ ; Black nucleus model; Cryogenic target; Coupled-channel calculation; Nuclear alignment; *9362. SP305.*
- Nuclear deformation effect; Nuclear orientation; Nuclear Ramsauer effect;  $^{16}\text{O}$  nucleus; Optical model; Total neutron cross section; Black nucleus; Coupled-channel calculations; *10398. SP305-1.*
- Nuclear electric hexadecapole moments; Nuclear electric quadrupole moments; Nuclear magnetic dipole moments; Nuclear magnetic octupole moments; Nuclear spins; Evaluated data; *JPCRD 5, No. 4, 835-1092 (1976). SP305-8.*
- Nuclear electric quadrupole moments; Nuclear magnetic dipole moments; Nuclear magnetic octupole moments; Nuclear spins; Evaluated data; Nuclear electric hexadecapole moments; *JPCRD 5, No. 4, 835-1092 (1976). SP305-8.*
- Nuclear electric quadrupole moments; Nuclear magnetic dipole moments; Mössbauer; *JPCRD 5, No. 4, 1093-1122 (1976). SP305-8.*
- Nuclear electromagnetic radiation; Gamma rays; Internal conversion; *10562. SP305-1.*
- Nuclear engineering; Structural engineering; Tornadoes; Wind; Missiles; *NBSIR 76-1050. SP305-8.*
- Nuclear enterprises; Nuclear materials; Plutonium; Safeguard; Uranium; *SP425, pp. 199-201. SP305-7.*
- Nuclear evaporation calculations; Photoneuclear reactions; 90 MeV bremsstrahlung;  $^{60}\text{Co}$ ,  $^{64}\text{Cu}$ ,  $^{11}\text{C}$  activation monitor yields; Absolute tritium yields; Hydrogen extraction; *12143. SP305-3.*
- Nuclear fluorine; Pentafluorohalobenzenes; Direct replacement; High temperature; Mechanisms; Nonionic or ionic cocreagents; *J70A6-420, 473-480 (1966). SP305.*
- Nuclear forces; Nuclear shell model; Residual forces; Separable forces; Effective forces; *11120. SP305-2.*
- Nuclear fuel; On-site power generation system; Petroleum problems; Central plant system; Coal gasification; Heat pump system; Heat recovery and conservation system; *BSS66, pp. 5-8. SP305-7.*

- Nuclear fuel burn-up standards; Radiation effect standards; Radioactivity standards; Standards for nuclear chemistry; Standards for nuclear technology; Activation analysis standards; Isotope reference standards; *SP310. SP305-1.*
- Nuclear fuels; Nuclear science and technology; Radiation damage; Reactor materials; Ceramics; Lattice defects; *M285. SP305.*
- Nuclear functions; Nuclear magnetic moments; Nuclear structure; Nuclear wave functions; Baryon resonances; Exchange currents; High momentum components; *12629. SP305-4.*
- Nuclear hydrodynamics; Octupole deformation; Photon absorption; Quadrupole resonance; Deformed nuclei; Giant resonance; *9296. SP305.*
- Nuclear hydrodynamics; Particle-hole calculations; Photon scattering; Photoneuclear; Sum rules; *Monogr. 118. SP305-2.*
- Nuclear hyperfine interactions; Quadrupole splitting; Single line source; Chemical shifts; Electronic configurations; Internal magnetic fields; Magnetic fields; Magnetic moment ratio; Nickel Mössbauer spectroscopy; *11163. SP305-2.*
- Nuclear induction; Precision solenoid; Fine structure constant; Gyromagnetic ratio of proton; *13969. SP305-6.*
- Nuclear induction; Signal averaging; Frequency-sweep; Injection-locking; Nmr; Nqr; *12875. SP305-4.*
- Nuclear instrumentation; Overflow counter; Multichannel scaler; *12173. SP305-3.*
- Nuclear instrumentation; Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; *13266. SP305-5.*
- Nuclear instrumentation; Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; *13456. SP305-5.*
- Nuclear instrumentation; Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; *13457. SP305-5.*
- Nuclear instrumentation; Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; *12580. SP305-4.*
- Nuclear instrumentation; Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; *13938. SP305-5.*
- Nuclear instrumentation; Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; *14002. SP305-6.*
- Nuclear instruments; Progress; Standards; State-of-the-art; Modules; *9209. SP305.*
- Nuclear instruments; Progress; Standards; State-of-the-art; Modules; *9646. SP305-1.*
- Nuclear instruments; Teletypewriter; Digital instruments; Digital multichannel pulse-height analyzer; Multichannel analyzers; *10785. SP305-1.*
- Nuclear interaction; Nuclear quadrupole resonance; Thermal expansion; Ferromagnetism; Hyperfine field; NMR; *9219. SP305.*
- Nuclear interferences; Trace oxygen; Activation analysis; *11914. SP305-3.*
- Nuclear isomers; Selenium; Tungsten; Bromine; Cadmium; Erbium; Gold; Half lives; Iridium; Measurement; *12873. SP305-4.*
- Nuclear isomers; Selenium; Tungsten; Bromine; Cadmium; Erbium; Gold; Half lives; Iridium; Measurement; *14356. SP305-6.*
- Nuclear levels; Nuclear rotation; Nuclear spectroscopy; Nuclear structure; Quantum mechanical precession; Rotational states; *9656. SP305-1.*
- Nuclear magnetic; Pulsed resonance; Fourier transform; *11882. SP305-3.*
- Nuclear magnetic acoustic resonance; Nuclear magnetic resonance; Nuclear quadrupole coupling; Potassium tantalate; Dislocation damping of acoustic waves; *10225. SP305-1.*
- Nuclear magnetic dipole moments; Nuclear magnetic octupole moments; Nuclear spins; Evaluated data; Nuclear electric hexadecapole moments; Nuclear electric quadrupole moments; *JPCRD 5, No. 4, 835-1092 (1976). SP305-8.*
- Nuclear magnetic dipole moments; Mössbauer; Nuclear electric quadrupole moments; *JPCRD 5, No. 4, 1093-1122 (1976). SP305-8.*
- Nuclear magnetic moment; Alloys; Hyperfine fields; Iron; Nickel; *11569. SP305-2.*
- Nuclear magnetic moments; Compilation problems; *13374. SP305-5.*
- Nuclear magnetic moments; Nuclear structure; Nuclear wave functions; Baryon resonances; Exchange currents; High momentum components; Nuclear functions; *12629. SP305-4.*
- Nuclear magnetic moments; Nuclear structure baryon resonances; Resonance photoproduction; Exchange current; Magnetic moment anomaly; *10820. SP305-1.*
- Nuclear magnetic moments; Neutrons;  $\pi$ -mesons; Relativistic nuclear physics; Baryon resonances; Exchange current; *12729. SP305-4.*
- Nuclear magnetic octupole moments; Nuclear spins; Evaluated data; Nuclear electric hexadecapole moments; Nuclear electric quadrupole moments; Nuclear magnetic dipole moments; *JPCRD 5, No. 4, 835-1092 (1976). SP305-8.*
- Nuclear magnetic resonance; Anisotropic scattering; In-P Knight shift; Liquid alloys; Many body effects; *12574. SP305-4.*
- Nuclear magnetic relaxation; Phase transition; Potassium borohydride; Sodium borohydride; Spin lattice relaxation time; Lithium borohydride; *11167. SP305-2.*
- Nuclear magnetic relaxation; Phosphonium halides; Proton second moment; Spin-lattice relaxation; Activation energy; Ammonium iodide; Hindered rotation; *1116. SP305-2.*
- Nuclear magnetic relaxation; Potassium rhenium hydride; Potential barrier; Proton; Second moment; Internal reorientation; *11500. SP305-2.*
- Nuclear magnetic resonance; Carbonyl compounds; Coordination compounds; Fluorophosphine; Iron carbonyl; Ni; *13982. SP305-6.*
- Nuclear magnetic resonance; Cellulose acetate membranes; Differential scanning calorimetry; Freezing in porous systems; Membranes; NMR relaxation times; *14631. SP305-6.*
- Nuclear magnetic resonance; Chemical shifts; Copper (I) compounds; Copper salts; Knight shift; Magnetic moment; *144. SP305-6.*
- Nuclear magnetic resonance; Co; Fe; Intermetallic compound; Internal oxidation; Line structure; Mössbauer effect; *106. SP305-1.*
- Nuclear magnetic resonance; Double resonance; Fluorine; INDOR; Mercury; *12456. SP305-4.*
- Nuclear magnetic resonance; Driven-equilibrium; Fourier transform; High resolution; *11567. SP305-2.*
- Nuclear magnetic resonance; Hyperfine-field and atomic moment; Ni-Al; Ni-Cr; Ni-V; *10093. SP305-1.*
- Nuclear magnetic resonance; Nuclear magnetism; Nuclear specific heat; Perturbed angular correlation; Magnetic materials; Mössbauer effect; *10836. SP305-1.*
- Nuclear magnetic resonance; Nuclear quadrupole; Azide; Nitrogen; *9716. SP305-1.*
- Nuclear magnetic resonance; Nuclear relaxation; Cryogenic; Liquid hydrogen; *9945. SP305-1.*
- Nuclear magnetic resonance; Nuclear quadrupole coupling; Potassium tantalate; Dislocation damping of acoustic waves; Nuclear magnetic acoustic resonance; *10225. SP305-1.*
- Nuclear magnetic resonance; Nuclear quadrupole resonance; Paramagnetism; Superconductivity; Temperature; Acoustic thermometry;  $\gamma$ -ray anisotropy thermometry; Noise thermometry; *TN830. SP305-6.*

- Nuclear magnetic resonance; Nuclear moment; TiFe; <sup>57</sup>Fe; Electronic structure; Knight shift; **11561. SP305-2.**
- Nuclear magnetic resonance; Octafluorotrisilane; Silicon; Spin coupling constants; Chemical shift; Double resonance; Fluorine; Fluorosilanes; **10278. SP305-1.**
- Nuclear magnetic resonance; Organosilanes; Organoxy; Stereochemistry; Synthesis; Tungsten(VI) halides; Alkoxy; Chlorides; Exchange reactions; Fluorides; Methoxy; **12646. SP305-4.**
- Nuclear magnetic resonance; Organotin compounds; Relationship; Mössbauer spectroscopy; **11395. SP305-2.**
- Nuclear magnetic resonance; Ortho hydrogen; Relaxation time; **11230. SP305-2.**
- Nuclear magnetic resonance; Oxidative addition; Palladium; Boron hydrides; Deuterium; Iridium; Maleonitriledithiolate; Metalloboranes; **16566. SP305-8.**
- Nuclear magnetic resonance; Oxo-bis(phenylhydrazono) compounds; Phenylhydrazono-phenylazo tautomerism; Phenylazones; Tautomerism; Ultraviolet spectra; Diphenylformazans; Enolic phenylhydrazono-phenylazo structure; Infrared spectra; Molecular structure; **10286. SP305-1.**
- Nuclear magnetic resonance; Paramagnetic resonance; Spectroscopy; Tools, analytical; Analytical tools; Electron paramagnetic resonance; **9701. SP305-1.**
- Nuclear magnetic resonance; Paramagnetism; Beryllium; Ferromagnetism; Intermetallic compounds; Magnetic moment; **11481. SP305-2.**
- Nuclear magnetic resonance; Paramagnetism; Be; Cr; Ferromagnetism; Hyperfine fields; **11203. SP305-2.**
- Nuclear magnetic resonance; Parametric; Magnetic transitions; Magnetic and quadrupole split energy levels; **11152. SP305-2.**
- Nuclear magnetic resonance; Phase diagrams; Alloys; High precision; Lever rule; **12434. SP305-4.**
- Nuclear magnetic resonance; Phonon nuclear interaction; Ultrasonics; Boxcar integrator; **TN344. SP305.**
- Nuclear magnetic resonance; Phosphorus; Spectral analysis; Computer program; Isopropyl; NMR; **11897. SP305-3.**
- Nuclear magnetic resonance; Phosphorus; Relative signs; Silicon; Spin coupling constants; Double resonance; Fluorine; Fluorosilanes; Hydrogen; **10373. SP305-1.**
- Nuclear magnetic resonance; Phosphorus; Fluorine; Methylthiotetrafluorophosphorane; **14798. SP305-7.**
- Nuclear magnetic resonance; Platinum; X-ray photoemission; Alloys; Copper; Electronic density of states; Lanthanum; Nickel; **15768. SP305-8.**
- Nuclear magnetic resonance; Polyethylene; Short-chain branching; Branching; Limiting viscosity numbers; Long-chain branching; **16244. SP305-8.**
- Nuclear magnetic resonance; Poly-L-proline; Polypeptides; Carbon-13; **14386. SP305-6.**
- Nuclear magnetic resonance; Polymer; Proton magnetic resonance; Spectroscopy; Aromatic amine; Multiple regression analysis; **12431. SP305-4.**
- Nuclear magnetic resonance; Proton; Bond length; Broad-line; Carbonyl; Cobalt; Cobalt tetracarbonyl hydride; Hydride; **9449. SP305.**
- Nuclear magnetic resonance; Proton; Bond lengths; Boron; Broad-line; Dimethoxyborane; Hydride; **9450. SP305.**
- Nuclear magnetic resonance; Proton; Bond distance; Broad-line second moment; Carbonyl; Hydride; Hydrogen; Manganese; **9702. SP305-1.**
- Nuclear magnetic resonance; Pulsed nuclear resonance; Quadrupolar interactions; Spin echoes; KI; NiAl; **11475. SP305-2.**
- Nuclear magnetic resonance; Pure quadrupole resonance; Experimental techniques; Ferromagnetic nuclear resonance; Metallurgy; Mössbauer effect; **13837. SP305-6.**
- Nuclear magnetic resonance; Quadrupole interactions; Spin waves; Anisotropy; Electric field gradient; Fe<sub>2</sub>; Fe<sub>2</sub>Zr; Ferromagnetism; Hyperfine field; **11181. SP305-2.**
- Nuclear magnetic resonance; Relative signs; Double resonance; Isotopes; Nitrogen-15; **10568. SP305-1.**
- Nuclear magnetic resonance; Relaxation time; Tumor; In vivo; Mouse; **13194. SP305-5.**
- Nuclear magnetic resonance; Relaxation; Internal motion; Magnesium fluosilicate hexahydrate; **12884. SP305-4.**
- Nuclear magnetic resonance; Relaxation time; Spin echo technique; Temperature dependence; Antiferromagnetism; Magnon-Raman process; **9918. SP305-1.**
- Nuclear magnetic resonance; Resonance; Ammonia analogues; Hydrogen; Lithium; **9763. SP305-1.**
- Nuclear magnetic resonance; Reverse osmosis membranes; Water in membranes; Bound water; Cellulose-acetate membranes; Differential scanning calorimetry; Freezing of water; Membranes; **14421. SP305-6.**
- Nuclear magnetic resonance; Review; Double resonance; **12602. SP305-4.**
- Nuclear magnetic resonance; SiF<sub>4</sub>; Silicon; Solvent; Spin coupling constants; Fluorine; Fluorosilanes; **9648. SP305-1.**
- Nuclear magnetic resonance; Silicon; Spin coupling constants; Chemical shifts; Fluorine; Fluorosilanes; **9810. SP305-1.**
- Nuclear magnetic resonance; Silicon; Spin-coupling; Solvent effects; Chemical shift; Coupling constant; Double resonance; Fluorine; Fluorosilanes; **10374. SP305-1.**
- Nuclear magnetic resonance; Sodium; Thallium; X-ray diffraction; Alloys; Compounds; Intermetallic; Knight shift; **10280. SP305-1.**
- Nuclear magnetic resonance; Spin lattice relaxation; Anisotropic Knight shift; Cd; Hg; Isotropic Knight shift; Knight shift; Korringa product; **14746. SP305-7.**
- Nuclear magnetic resonance; Spin-lattice relaxation; Spin-spin relaxation; Tumor; In vivo; Melanoma; **13843. SP305-6.**
- Nuclear magnetic resonance; Superconducting devices; Magnetometers; **11348. SP305-2.**
- Nuclear magnetic resonance; Susceptibility; Wave functions; Electronic density of states; Hyperfine fields; Knight shift; **SP323, pp. 601-642. SP305-4.**
- Nuclear magnetic resonance; Susceptibility; Wave functions; Electronic density of states; Hyperfine fields; Knight shift; **J.74A No. 4, 569-610 (1970). SP305-2.**
- Nuclear magnetic resonance; Time dependent electric field gradients; Gunn effect; **11378. SP305-2.**
- Nuclear magnetic resonance; Titanium; Hydrides; Hydrogen; **10949. SP305-2.**
- Nuclear magnetic resonance; Zintl phase; B-32 structure; Knight shifts; LiCd; Linewidths; LiZn; **10281. SP305-1.**
- Nuclear magnetic resonance absorption; Polyoxymethylene crystals; Solid state polymerization; Trioxane crystals; Dielectric loss; Dielectric relaxation; Molecular motions; **15359. SP305-7.**
- Nuclear magnetic resonance and diffusion; Pressure effects on diffusion; Self-diffusion; Sintering; Surface diffusion; Thermomigration; Copper; Diffusion; Electromigration; Liquid copper diffusion; **J. Phys. Chem. Ref. Data 2, No. 3, 643-656 (1973). SP305-6.**
- Nuclear magnetic resonance of pyridazine derivatives; Phenylhydrazono-phenylazo tautomerism; Pyridazine derivatives; xylo-trihydroxycyclohexenediolic acid preparation of bis-phenylhydrazono of; **9803. SP305-1.**
- Nuclear magnetic resonance spectroscopy; Phenylmercuric acetate; Volatilization; Bacteria; Elemental mercury; Flameless atomic absorption spectroscopy; Laser Raman spectroscopy; **15897. SP305-8.**
- Nuclear magnetism; Nuclear specific heat; Perturbed angular correlation; Magnetic materials; Mössbauer effect; Nuclear magnetic resonance; **10836. SP305-1.**

- Nuclear material balance accountability; Nuclear material control; Nuclear safeguards; 13075. SP305-5.
- Nuclear material control; Nuclear safeguards; Nuclear material balance accountability; 13075. SP305-5.
- Nuclear material diversion; Nuclear materials; Safeguards; Safeguards information system; Decision structure; Information system; 16525. SP305-8.
- Nuclear material information systems; Nuclear materials safeguards; Safeguards; Decision makers; Decision structure; Information flows; 16526. SP305-8.
- Nuclear material safeguards; Safeguards; Analysis; Diversion of nuclear materials; Diversion path analysis; Internal control system characterization; NBSIR 74-524. SP305-6.
- Nuclear material safeguards; Safeguards; Analysis; Diversion of nuclear materials; Diversion path analysis; Internal control system characterization; 16536. SP305-8.
- Nuclear materials; Plutonium; Safeguard; Uranium; Nuclear enterprises; SP425, pp. 199-201. SP305-7.
- Nuclear materials; Safeguards; Safeguards information system; Decision structure; Information system; Nuclear material diversion; 16525. SP305-8.
- Nuclear materials safeguards; Process losses; Material balance accounting; 16263. SP305-8.
- Nuclear materials safeguards; Safeguards; Analysis; Diversion of nuclear materials; Diversion path analysis; Internal control system characterization; 15048. SP305-7.
- Nuclear materials safeguards; Safeguards; Analysis; Diversion of nuclear materials; Diversion path analysis; Internal control system characterization; 15049. SP305-7.
- Nuclear materials safeguards; Safeguards evaluation; Safeguards system design; Societal risk; 16514. SP305-8.
- Nuclear materials safeguards; Safeguards; Decision makers; Decision structure; Information flows; Nuclear material information systems; 16526. SP305-8.
- Nuclear matter; Optical properties; Photon; Plasma frequency; Absorption cross section; Index of refraction; *J. Res.* 80A No. 1, 9-13 (1976). SP305-8.
- Nuclear medicine; Nuclear reactions;  $E=800$  MeV; Isotope production; La,Mo,V(p,splallation); Measured  $\sigma$ ; SP425, pp. 492-495. SP305-7.
- Nuclear medicine; Point kernel; Radionuclide; Absorbed dose; Beta ray; Dosimetry; 11861. SP305-3.
- Nuclear medicine; Quality assurance; Radiopharmaceuticals;  $^{99m}\text{Tc}$  Technetium; Gamma camera; SP456, pp. 131-138 (Nov. 1976). SP305-8.
- Nuclear medicine; Radionuclide; Radiopharmaceutical; Absorbed dose; Calculation; Dosimetry; 15977. SP305-8.
- Nuclear medicine; Radionuclide dosimetry; Reciprocity relationship; Specific absorbed fraction; Dosimetry, radionuclide; Internal dose calculation; 14618. SP305-6.
- Nuclear medicine; Radiopharmaceuticals; Technetium-99m; Tin-113; Dose calibrators; Indium-113m; Molybdenum-99; TN791. SP305-5.
- Nuclear methods; Optical spectroscopy; Symposium on trace characterization; Trace characterization; X-ray spectroscopy; Electrochemical methods; Electron and optical microscopy; *Mono.* 100. SP305.
- Nuclear model; Cross section; Neutrons; SP425, pp. 332-334. SP305-7.
- Nuclear models; Nuclear structure; Collective model; Giant resonances; Isospin purity; Nuclear charged density; 15018. SP305-7.
- Nuclear moment; Holmium; Hyperfine structure; 11149. SP305-2.
- Nuclear moment; Optical pumping; Rubidium; G-factor; 10309. SP305-1.
- Nuclear moment; Spectrum; Tantalum; Ionization energy; 15381. SP305-7.
- Nuclear moment; TiFe;  $^{57}\text{Fe}$ ; Electronic structure; Knight shift; Nuclear magnetic resonance; 11561. SP305-2.
- Nuclear moments; Optical; Promethium 147; Electronic structure; Energy levels; Hollow cathode; Hyperfine structure; Interferometer; 10006. SP305-1.
- Nuclear moments of inertia; Nuclear rotation; Nuclear she model; Nuclear spectra; Nuclear structure; Deformed nuclei; 10292. SP305-1.
- Nuclear orientation; Deformed nucleus;  $^{165}\text{Ho}$ ; Neutron cross section; 9930. SP305-1.
- Nuclear orientation; Nuclear Ramsauer effect; Nuclear shape; Optical model; Total neutron cross section;  $^{165}\text{Ho}$ ; Black nucleus model; Coupled channel calculation; 12007. SP305-3.
- Nuclear orientation; Nuclear Ramsauer effect;  $^{165}\text{Ho}$  nucleus; Optical model; Total neutron cross section; Black nucleus; Coupled-channel calculations; Nuclear deformation effect; 10398. SP305-1.
- Nuclear orientation; Orientation parameter; Photo absorption; Photon polarization; Polarizabilities; Electromagnetic transition; Matrix elements; 10819. SP305-1.
- Nuclear orientation; Paramagnetism; Superconductivity; Temperature; Josephson junctions; Noise thermometer; TN82. SP305-6.
- Nuclear orientation; Superconducting solenoid;  $^3\text{He}$  cryostat;  $^3\text{He}$  refrigerator; TN562. SP305-3.
- Nuclear orientation; Transition mixing ratios;  $^{102}\text{Ir}$ ; magnetic moment of; Beta rays, angular distribution of; Gamma ray angular distribution of; Hyperfine field in iron; 1200. SP305-3.
- Nuclear orientation;  $^{82}\text{Br}$ ; Beta rays; Gamma rays; Hyperfine interactions; Isotope separator; Magnetic moment; 1288. SP305-4.
- Nuclear Overhauser effect; Conformations; Equilibration; Glucosaminides; Interaction energies; NMR spectroscopy; 1161. SP305-2.
- Nuclear Overhauser effects; Amino sugars; Chemical shift; Magnitude spectra; Nitrogen-15 nuclear magnetic resonance spectroscopy; 15236. SP305-7.
- Nuclear Overhauser effects; P.m.r. spectroscopy; 6-amino-deoxy-D-glucose-6- $^{14}\text{N}$  derivatives;  $^{13}\text{C}$  n.m.r. spectroscopy;  $^{19}\text{F}$  n.m.r. spectroscopy; Internuclear double resonance; Internuclear triple resonance; 12444. SP305-4.
- Nuclear Overhauser effects; Spin-spin coupling constants; Variable temperature studies; Conformational analysis; Iterative analysis; Long-range coupling constants; N.m.r. spectroscopy; 12777. SP305-4.
- Nuclear parameters; Recent advances; Tables; Theory; Chemical applications; Instrumentation; Mössbauer spectrometry; 16332. SP305-8.
- Nuclear photon scattering; Nuclear surface oscillations; Polarized photons; Giant resonances; 14811. SP305-7.
- Nuclear physics; Particle accelerators; Radiation measurement standards; Radiation power; Radiation processing; X-ray; Electrons; 9852. SP305-1.
- Nuclear physics; Photoneuclear giant resonance; Photoneuclear reaction; Bibliography; Data index; Data summary; Elements; Isotopes; SP380. SP305-5.
- Nuclear physics; Photoneuclear reactions; Bibliography; Data index; Elements; Isotopes; M277, Supplement 1. SP305.
- Nuclear physics; Photoneuclear absorption cross sections; Spectral nuclei; Theoretical physics; 9214. SP305.
- Nuclear physics; Photoneuclear reactions; Bibliography; Data index; Elements; Isotopes; SP322. SP305-2.
- Nuclear physics; T(p,n) neutrons;  $^{10}\text{B}(n,\alpha)^7\text{Li}$  reaction; Branching ratio; Gas proportional counter; Neutrons; 148. SP305-7.
- Nuclear physics experiments; Building blocks; Computer control; Digital computer; Linac, NBS; Multiplex register unit; 10626. SP305-1.



- nuclear power; Police radars; Solar energy; SRM's; Computer systems; Environmental; Fire; Glass door; Lead nitrate; Mercury thermometers; Metric; *DIM/NBS 60*, No. 2, 1-25 (1976). **SP305-8.**
- nuclear power; Reactor components; Electric utilities; Hot cell inspection; In-service inspection; Nondestructive testing; *15118*. **SP305-7.**
- nuclear power plant; Productivity; Subway; Calculable capacitor; Color; Computer simulation; Electricity; Energy-environment; Fire safety; Measurement system; *DIM/NBS 59*, No. 12, 266-291 (1975). **SP305-7.**
- nuclear properties; Solid state properties; Thermodynamic and transport properties; Accession list; Atomic and molecular properties; Chemical kinetics; Colloid and surface properties; Fundamental particles properties; General collections; Mechanical properties; *TN554*. **SP305-2.**
- nuclear quadrupole; Azides; Nitrogen; Nuclear magnetic resonance; *9716*. **SP305-1.**
- nuclear quadrupole coupling; Organotin; Organometallic; Mössbauer; NQR; *14816*. **SP305-7.**
- nuclear quadrupole coupling; Potassium tantalate; Dislocation damping of acoustic waves; Nuclear magnetic acoustic resonance; Nuclear magnetic resonance; *10225*. **SP305-1.**
- nuclear quadrupole resonance; Magnetometer; *J73C Nos. 3 and 4*, 67-73 (1969). **SP305-1.**
- nuclear quadrupole resonance; Nuclear resonance; Thermometers; Dilution refrigerator; Low temperature; Magnetic ordering; *11381*. **SP305-2.**
- nuclear quadrupole resonance; Paramagnetism; Superconductivity; Temperature; Acoustical thermometry;  $\gamma$ -ray isotropy thermometry; Noise thermometry; Nuclear magnetic resonance; *TN830*. **SP305-6.**
- nuclear quadrupole resonance; Piezometry; Thermometry; Applications; Material detection; *15475*. **SP305-7.**
- nuclear quadrupole resonance; Potassium chlorate; Temperature variation; 12  $^{\circ}\text{K}$ –90  $^{\circ}\text{K}$ ; Bayer-Kushida theory; Chlorine; *10238*. **SP305-1.**
- nuclear quadrupole resonance; Rare-earth trihalides; Spontaneous magnetization; Heat capacity; Linear chain models; Low temperature; Magnetic properties; Magnetic susceptibility; *1271*. **SP305-2.**
- nuclear quadrupole resonance; Sodium chlorate; Temperature dependence 14-90  $^{\circ}\text{K}$ ;  $^{\infty}$ chlorine; *12258*. **SP305-3.**
- nuclear quadrupole resonance; Thermal expansion; Ferromagnetism; Hyperfine field; NMR; Nuclear interaction; *9219*. **SP305.**
- nuclear quadrupole resonance thermometry; Potassium chlorate; Measurements at 0  $^{\circ}\text{C}$ ; *J71A2-442*, 125-126 (1967). **SP305.**
- nuclear quadrupole resonance thermometry 12  $^{\circ}\text{K}$ –297  $^{\circ}\text{K}$ ; Potassium chlorate; Instrumentation; *10282*. **SP305-1.**
- nuclear quartets; Nuclear reactions; Nuclear structure; Quartet model; Super-multiplet theory; Nuclear binding energies; *1361*. **SP305-5.**
- nuclear radiation; Pressure transducers; Temperature effects; Pyrogenic; Flame; *9662*. **SP305-1.**
- nuclear radiation attenuation; Slush hydrogen; Densitometer; Density reference system; Liquid hydrogen; *10804*. **SP305-1.**
- nuclear radiation detectors; Probe techniques (a-c); Recombination centers; Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; *TN754*. **SP305-5.**
- nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *1717*. **SP305-4.**
- Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; *TN727*. **SP305-4.**
- Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; *TN733*. **SP305-4.**
- Nuclear radiation detectors; Probe techniques (a-c); Recombination centers; Resistivity; Ribbon-wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; *TN743*. **SP305-4.**
- Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *TN702*. **SP305-3.**
- Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *TN571*. **SP305-3.**
- Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *TN592*. **SP305-3.**
- Nuclear radiation detectors; Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; *TN598*. **SP305-3.**
- Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; *TN560*. **SP305-3.**
- Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; *TN488*. **SP305-1.**
- Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; *TN495*. **SP305-1.**
- Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic microphone; Wire bonds; Alpha detectors; Aluminum wire; *TN520*. **SP305-2.**
- Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; *TN527*. **SP305-2.**
- Nuclear radiation detectors; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; *TN555*. **SP305-2.**
- Nuclear radii; Nuclear sizes; Zinc nuclei; Electron scattering; *12928*. **SP305-4.**
- Nuclear radii; Titanium isotopes; Elastic electron scattering; Nuclear charge distribution; *12510*. **SP305-4.**

- Nuclear Raman effect; Nuclear structure; Photon absorption cross sections; Photon scattering; Photoneuclear effect; Collective model; 9538. SP305-1.
- Nuclear Ramsauer effect; Nuclear shape; Optical model; Total neutron cross section;  $^{165}\text{Ho}$ ; Black-nucleus model; Coupled channel calculation; Nuclear orientation; 12007. SP305-3.
- Nuclear Ramsauer effect; Optical model; Total neutron cross section; Coupled channel calculations; Holmium $^{165}$ ; Nuclear collectivity; 13424. SP305-5.
- Nuclear Ramsauer effect;  $^{165}\text{Ho}$  nucleus; Optical model; Total neutron cross section; Black nucleus; Coupled-channel calculations; Nuclear deformation effect; Nuclear orientation; 10398. SP305-1.
- Nuclear reaction ( $n,n'\gamma$ );  $E_n \approx 14.2$  MeV; Measured  $d^2\sigma/d\Omega dE$ ; SP425, pp. 770-773. SP305-7.
- Nuclear reaction  $^{12}\text{C}(n,n)^{12}\text{C}$ ; R-function analysis; Measured  $\sigma_T(E)$ ,  $E = 1.5$ -5.0 MeV,  $\sigma(E)$ ,  $E = 1.8$ -4.0 MeV,  $\Theta_{lab} = 20$  to  $160^\circ$ ; SP425, pp. 246-249. SP305-7.
- Nuclear reaction  $^{238}\text{U}(n,n)$  and  $^{238}\text{U}(n,n')$ ;  $\sigma(E)$ ,  $E = 20$  to  $160^\circ$ ;  $E = 0.3$ -3.0 MeV; SP425, pp. 862-865. SP305-7.
- Nuclear reaction  $^{56}\text{Fe}(n,\gamma)$ ; Relative partial radiation widths;  $\gamma$ -transitions in  $^{56}\text{Fe}$  of  $^{56}\text{Fe}$  resonances;  $E_n \approx 7$ -70 keV; Natural iron target; SP425, pp. 816-818. SP305-7.
- Nuclear reactions; Compilation; Cross section; Evaluation; Neutron; 9980. SP305-1.
- Nuclear reactions; CTR energy production; SP425, pp. 659-663. SP305-7.
- Nuclear reactions;  $E \approx 800$  MeV; Isotope production; La, Mo, V, (p, spallation); Measured  $\sigma$ ; Nuclear medicine; SP425, pp. 492-495. SP305-7.
- Nuclear reactions; Energy transfer coefficient; First collision dose; Kerma; Neutron dosimetry; Neutron energy transfer; 10824. SP305-1.
- Nuclear reactions;  $\gamma$ -production; Cr, Ni, Zr;  $E_n \approx 3$ -6 MeV; ( $n,n'\gamma$ ); SP425, pp. 934-937. SP305-7.
- Nuclear reactions; ( $n,\alpha$ ) cross sections; Cross sections; Fast-neutron reactions; Lithium; SP425, pp. 240-243. SP305-7.
- Nuclear reactions; Nuclear scattering; Scattering matrix; Shell model; S-matrix eigenstates; Nuclear continuum states; 9658. SP305-1.
- Nuclear reactions; Nuclear structure; Photoneuclear reactions; s-matrix; Continuum shell model; 13248. SP305-5.
- Nuclear reactions; Nuclear structure; Quartet model; Supermultiplet theory; Nuclear binding energies; Nuclear quartets; 13361. SP305-5.
- Nuclear reactions; Nuclear structure; Sequential decays; Two-particle reactions; Configuration interaction; Continuum states; 9657. SP305-1.
- Nuclear reactions; Photons; Radiation detectors; Radiochemical separation; Activation analysis; Applications; Archaeology; Biology; Charged particles; Computation; Conference; Criminology; Data handling; Geochemistry; Industry; SP312, Volumes I and II. SP305-1.
- Nuclear reactions; Protons; Solar flares; Acceleration mechanisms; Neutrons; SP425, pp. 512-515. SP305-7.
- Nuclear reactions; Pu isotopes; U;  $^{238}\text{U}(n,f)$ ; Calculated  $\langle\sigma_T\rangle$ ; Deduced channel spectrum;  $E \approx 3$ -5 MeV; Fission; SP425, pp. 129-138. SP305-7.
- Nuclear reactions; Sources and spectra; Cross-section data and systematics; Cross-section measurement; Excitation functions; Fast neutrons; Nonelastic interactions; SP425, pp. 664-673. SP305-7.
- Nuclear reactions; Summary of deduced  $E_n$ ,  $g\Gamma$ ,  $\Gamma_\gamma$ ,  $S_n$ , ( $D_n$ ); Various statistical tests; Measured  $\sigma(E)$ ; ( $n,n$ ), ( $n,\gamma$ ),  $E = 1$  eV-few keV; SP425, pp. 780-783. SP305-7.
- Nuclear reactions;  $\theta = 90^\circ$ ,  $75^\circ$ ,  $55^\circ$ ,  $35^\circ$ ;  $E_n = 8.5$ ,  $10.0$ ,  $12.2$ ,  $14.2$  MeV; Fe( $n,\gamma$ ); Measured  $\sigma(\theta)$  for  $E_\gamma = 0.847$  MeV; SP425, pp. 813-815. SP305-7.
- Nuclear reactions;  $\text{U}^{235}$ ,  $\text{U}^{238}$ ;  $E \approx 0.25$  eV; Eta; Fission neutrons per absorption; SP425, pp. 553-556. SP305-7.
- Nuclear reactions;  $^{14}\text{N}$ ;  $^9\text{Be}(e,e')$ ; Deduced wave function Electron scattering; Measured form factors; 14967. SP305-7.
- Nuclear reactions;  $^{186}$ ,  $^{187}\text{Os}(n,\gamma)$ ;  $E_n = 25$  keV; Measured cross-section ratio; 16579. SP305-8.
- Nuclear reactions;  $^{235}\text{U}$ ;  $E = 0.0253$  eV; Eta; Fission neutrons per absorption; SP425, pp. 557-559. SP305-7.
- Nuclear reactions;  $^{238}\text{U}$ ; Fusion blanket neutronics; SP425, pp. 680-682. SP305-7.
- Nuclear reactions;  $^6\text{Li}$ ,  $\sigma_{\text{tot}}$ ;  $E_n = 10$  eV to  $10$  MeV; SP425, pp. 244-245. SP305-7.
- Nuclear reactions;  $^6\text{Li}(n, t)^4\text{He}$ ,  $E = 0.2$ -1.4 MeV; Deduced analyzing powers  $A(\theta)$ ; Measured yield asymmetries; SP425, pp. 788-791. SP305-7.
- Nuclear reactions;  $^6\text{Li}(p,p)$ ;  $^6\text{Li}(p,\gamma)$ ;  $^6\text{Li}(^3\text{He},p)$ ;  $^6\text{Li}(d,p)$ ;  $^6\text{Li}(d,\alpha)$ ; Deduced  $\sigma_{\text{avg}}$  ( $\sigma_v$ ); Measured  $\sigma(\theta)$ ; SP425, pp. 697-700. SP305-7.
- Nuclear reactions; SP425, pp. 360-362. SP305-7.
- Nuclear reactions C( $n,n$ ), C( $n,n'$ ),  $E = 9$ -15 MeV; Measured  $\sigma(E_n, \theta)$ ; SP425, pp. 866-870. SP305-7.
- Nuclear reactions  $^{63}\text{Cu}$ ,  $^{65}\text{Cu}$ , Pr,  $^{209}\text{Bi}$ , Bi( $n,\gamma$ ); Calibration of the NBS P2 chamber; Comparison of shape and magnitude of photoneutron cross sections; SP425, pp. 83-88. SP305-7.
- Nuclear reactions Fe group; Calculated  $\sigma(E)$ , ( $\alpha,n$ ), ( $n,\alpha$ ), Hauser-Feshbach; SP425, pp. 354-356. SP305-7.
- Nuclear reactions  $^{12}\text{C}(n,2n)$ ,  $E$  13-14 MeV; Statistical model calculations;  $^{238}\text{U}(n,2n)$ ,  $E$  13-18 MeV; Measured  $\sigma(E)$  SP425, pp. 819-822. SP305-7.
- Nuclear reactions  $^{12}\text{C}(p,L)$ ; Astrophysical production of Li, and B;  $E = 45 - 100$  MeV;  $L = \text{Li, Be, B}$ ; Measured  $\sigma(E)$  for A 6, 7, 9, 10, 11; SP425, pp. 504-508. SP305-7.
- Nuclear reactions  $^{138}\text{Ba}(n,\gamma)$ ,  $^{140}\text{Ce}(n,\gamma)$ ; Deduced  $\Sigma\Gamma_\gamma$  ( $M$ ) and  $\Sigma\Gamma_\gamma$  ( $E$ );  $E_x \approx 9$  MeV; Measured  $\sigma(E, \theta)$ ; SP425, pp. 784-787. SP305-7.
- Nuclear reactions  $^{14}\text{N}$ ,  $^{27}\text{Al}$ ,  $^{56}\text{Fe}$ ,  $^{80}\text{Br}$ ,  $^{181}\text{Ta}$ , W, review selected ( $n,\gamma$ ) measurements, evaluations,  $\sigma(E)$ ; SP425, pp. 149-155. SP305-7.
- Nuclear reactions  $^{140}\text{Nd}(n,n)$ , ( $n,n'$ ),  $^{148,150}\text{Sm}(n,n)$ , ( $n,^{152,154}\text{Sm}(n,n')$ );  $E = 7$ -10 MeV; calculated  $\sigma(\theta)$ ; SP425, pp. 942-945. SP305-7.
- Nuclear reactions  $^{209}\text{Pb}(n,\gamma)$   $^{209}\text{Pb}$   $E_n = 11.2$  MeV; Measured capture gamma rays resolution approximately 80 keV; SP425, pp. 923-925. SP305-7.
- Nuclear reactions  $^{209}\text{Bi}$  ( $n,n$ ), ( $n,\gamma$ ),  $E = 500$  eV-75 keV; Deduced  $E_n$ , I, J,  $g\Gamma_n$ ,  $S_n$ ,  $S_i$ ; Measured  $\sigma(E)$ ; SP425, pp. 799-801. SP305-7.
- Nuclear reactions  $^{232}\text{U}$ ,  $^{235}\text{U}$ ,  $^{239}\text{Pu}$ ,  $^{241}\text{Pu}(n,f)$  ( $n,\gamma$ ) ( $n,n$ ) 0-1 eV; Evaluation; SP425, pp. 281-285. SP305-7.
- Nuclear reactions  $^{235}\text{U}(n,f)$  and  $^{235}\text{U}(n,\gamma)$ ;  $E = 86$  eV - 3 keV; Enriched target; Measured capture-to-fission ratio; SP425, pp. 599-602. SP305-7.
- Nuclear reactions  $^{238}\text{U}(n,n)$ ,  $^{238}\text{U}(n,\gamma)$ ;  $E = 30$ -1800 eV; resonances deduced  $\Gamma_n$ ,  $\Gamma_\gamma$ ; Enriched target; Measured  $\sigma_n, \gamma$ ,  $\sigma_{n,n}$ ; SP425, pp. 729-732. SP305-7.
- Nuclear reactions  $^{238}\text{U}(n, \gamma)$ ,  $E = 10$ -1600 eV; Enriched target; Measured  $\sigma(E, E_\gamma)$  and  $\sigma_\gamma$ ;  $^{238}\text{U}$  deduced resonances,  $g\Gamma_n$ ; SP425, pp. 733-737. SP305-7.
- Nuclear reactions  $^{238}\text{U}(n,n)$ , ( $n,n'$ ),  $E = 0.9$ -2.7 MeV; Time-of-flight; Compared with calculated excitation functions; Measured  $\sigma(E_n, 90^\circ)$  for ground, 45, 148 keV states; SP425, pp. 950-952. SP305-7.
- Nuclear reactions  $^4\text{He}(n,n)$ ;  $^6\text{Li}(n,n)$ ;  $^9\text{Be}(n,n)$ ;  $^{12}\text{C}(n,n)$ ;  $^{16}\text{O}(n,n)$ ; R-function and phase-shift analyses;  $\theta_{lab} = 20$  to  $160^\circ$ ;  $E = 2$  to  $5$  MeV; SP425, pp. 875-878. SP305-7.
- Nuclear reactions  $^{56}\text{Fe}$ ,  $^{58,60,61}\text{Ni}(n,\gamma)$ ;  $E = 6$ -150 keV; deduced  $\Gamma_\gamma$ , width correlations; Shape analysis; SP425, pp. 929-930. SP305-7.
- Nuclear reactions  $^{56}\text{Fe}$ ,  $^{58}\text{Co}$ ,  $^{76,78,80,82}\text{Se}$ ,  $^{88}\text{Y}$ ,  $^{93}\text{Nb}$ ,  $^{103}\text{Rh}$ ,  $^{173}\text{Lu}$ ,  $^{181}\text{Ta}$ , W, Pt,  $^{197}\text{Au}$ ,  $^{209}\text{Bi}$ ,  $^{238}\text{U}(n,2n)$ ; SP425, pp. 858. SP305-7.

uclear reactions <sup>76,79,80,82</sup>Se(n,n), (n,n'), E=6-10 MeV; Deduced opticalmodel parameters; Enriched targets; Measured  $\sigma(\theta)$ ; *SP425*, pp. 897-900. **SP305-7.**

uclear reactor; Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; Neutron; *TN758*. **SP305-5.**

uclear reactor; Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; Neutron; *TN813*. **SP305-6.**

uclear reactor; Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; Neutron; *TN896*. **SP305-8.**

uclear reactor; Radiation; Crystal structure; Diffraction; Isotope, molecular structure; Neutron; *TN714*. **SP305-4.**

uclear reactor; Radiation; Radiography; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; Neutron; *TN860*. **SP305-7.**

uclear reactor; Radiation; Scattering; Crystal structure; Diffraction; Molecular structure; Neutron; *TN567*. **SP305-3.**

uclear recoil; Overflow counter; Photoneuclear reactions; Proportional counter; Quantitative Mössbauer spectrometry; Standard reference materials; Backscatter geometry; Computer programs for Mössbauer spectrometry; Computers; *TN451*. **SP305-1.**

uclear Regulatory Commission; Standards development; Technological change; Administrative experiment; American National Standards Institute; Experimental Technology Incubatives Program; *NBS-GCR-ETIP 76-16*. **SP305-8.**

uclear relaxation; Cryogenic; Liquid hydrogen; Nuclear magnetic resonance; *9945*. **SP305-1.**

uclear research; Radiation applications; Accelerators; Electron lines; *13162*. **SP305-5.**

uclear resonance; Materials characterization; Mössbauer spectrometry; *14818*. **SP305-7.**

uclear resonance; Permeability; Critical field; Field dependence; Nickel pellets; Nickel powder; *9575*. **SP305-1.**

uclear resonance; Thermometers; Dilution refrigerator; Low temperature; Magnetic ordering; Nuclear quadrupole resonance; *11381*. **SP305-2.**

uclear resonance profiling; Photodepopulation; Photovoltaic imaging; Rutherford backscattering; SCANIR; Secondary ion mass spectroscopy; Semiconductor devices; Silicon; Surface analysis; X-ray photoelectron spectroscopy; Auger spectroscopy; Depth profiles; *SP400-23*. **SP305-8.**

uclear resonance thermometry; Radiation thermometry; Temperature measurement; Temperature scales; Temperature uncertainties; Thermodynamic temperature scales; Acoustical thermometry; Black-body radiation; Gas thermometry; Kirchhoff's law; Magnetic thermometry; *10613*. **SP305-1.**

uclear rotation; Nuclear shell model; Nuclear spectra; Nuclear structure; Deformed nuclei; Nuclear moments of inertia; *10292*. **SP305-1.**

uclear rotation; Nuclear spectroscopy; Nuclear structure; Quantum mechanical precession; Rotational states; Nuclear levels; *9656*. **SP305-1.**

uclear safeguards; Nuclear material balance accountability; Nuclear material control; *13075*. **SP305-5.**

uclear safety; Soils; Temperature; Thermal conductance; Thermal conductivity; Conductance; Conductivity; Heat transfer; *10944*. **SP305-2.**

uclear safety; Soils; Temperature; Thermal conductance; Thermal conductivity; Conductance; Conductivity; Heat transfer; *11305*. **SP305-2.**

uclear scattering; Scattering matrix; Shell model; S-matrix eigenstates; Nuclear continuum states; Nuclear reactions; *558*. **SP305-1.**

uclear science and technology; Radiation damage; Reactor materials; Ceramics; Lattice defects; Nuclear fuels; *M285*. **SP305.**

Nuclear shape; Optical-model; Total neutron cross section; <sup>168</sup>Ho; Black-nucleus model; Coupled channel calculation; Nuclear orientation; Nuclear Ramsauer effect; *12007*. **SP305-3.**

Nuclear shell model; Nuclear spectra; Nuclear structure; Deformed nuclei; Nuclear moments of inertia; Nuclear rotation; *10292*. **SP305-1.**

Nuclear shell model; Residual forces; Separable forces; Effective forces; Nuclear forces; *11120*. **SP305-2.**

Nuclear sizes; Zinc nuclei; Electron scattering; Nuclear radii; *12928*. **SP305-4.**

Nuclear specific heat; Perturbed angular correlation; Magnetic materials; Mössbauer effect; Nuclear magnetic resonance; Nuclear magnetism; *10836*. **SP305-1.**

Nuclear spectra; Nuclear structure; Deformed nuclei; Nuclear moments of inertia; Nuclear rotation; Nuclear shell model; *10292*. **SP305-1.**

Nuclear spectroscopy; Nuclear structure; Quadrupole moment; Quartet structure; Core polarization; Electromagnetic transitions; *13340*. **SP305-5.**

Nuclear spectroscopy; Nuclear structure; Quantum mechanical precession; Rotational states; Nuclear levels; Nuclear rotation; *9656*. **SP305-1.**

Nuclear spin; Rate coefficients; Transition-state theory; Chemical reactions; Collision theory; Hydrogen atoms; Hydrogen molecules; Indistinguishable particles; *16214*. **SP305-8.**

Nuclear spin; Ultrasonic; *10730*. **SP305-1.**

Nuclear spin relaxation time; Ortho-para; Relaxation time; T<sub>1</sub>; Analyzer; Cryogenics; Hydrogen; Instrument; Instrumentation; Liquefier; Liquid hydrogen; Measurement; *9486*. **SP305.**

Nuclear spin system; Electric field gradients; Electric quadrupole; Magnetic dipole; *11645*. **SP305-2.**

Nuclear spin system; Phonons; Transferred hyperfine; Interaction; *11755*. **SP305-2.**

Nuclear spin-lattice relaxation; PrCl<sub>3</sub>; Antiferromagnet; NMR; NQR; Nuclear spin-spin relaxation; *11382*. **SP305-2.**

Nuclear spins; Chemical bonds; Cyanogen, molecular energy levels; Electron transition; Microwave spectroscopy; *9699*. **SP305-1.**

Nuclear spins; Evaluated data; Nuclear electric hexadecapole moments; Nuclear electric quadrupole moments; Nuclear magnetic dipole moments; Nuclear magnetic octupole moments; *JPCRD 5*, No. 4, 835-1092 (1976). **SP305-8.**

Nuclear spin-spin relaxation; Nuclear spin-lattice relaxation; PrCl<sub>3</sub>; Antiferromagnet; NMR; NQR; *11382*. **SP305-2.**

Nuclear structure; Baryons; Duality; Exchange currents; Magnetic moments; Mesons; *13449*. **SP305-5.**

Nuclear structure; Charge distribution; Collective model; Giant resonance; Hydrodynamic model; Isospin; *12287*. **SP305-3.**

Nuclear structure; Collective model; Giant resonances; Isospin purity; Nuclear charged density; Nuclear models; *15018*. **SP305-7.**

Nuclear structure; Deformed nuclei; Nuclear moments of inertia; Nuclear rotation; Nuclear shell model; Nuclear spectra; *10292*. **SP305-1.**

Nuclear structure; Nuclear wave functions; Baryon resonances; Exchange currents; High momentum components; Nuclear functions; Nuclear magnetic moments; *12629*. **SP305-4.**

Nuclear structure; O<sup>16</sup>; Photo absorption; Continuum states; Coupled channels; Interacting continua; *10801*. **SP305-1.**

Nuclear structure; Particle structure; Relativistic bound systems; Relativistic nuclear physics; Composite particles; Interacting quantum fields; *Monogr. 147*. **SP305-7.**

Nuclear structure; Particle-hole model; Quasi-bound states; Two-particle two-hole states; Giant resonance; Intermediate structure; *15097*. **SP305-7.**

Nuclear structure; Photodisintegration; Baryon resonances; Deuteron; Exchange currents; Magnetic moments; *11717*. **SP305-2.**

- Nuclear structure; Photon absorption cross sections; Photon scattering; Photoneuclear effect; Collective model; Nuclear Raman effect; 9538. SP305-1.
- Nuclear structure; Photoneuclear reactions;  $s$ -matrix; Continuum shell model; Nuclear reactions; 13248. SP305-5.
- Nuclear structure; Quadrupole moment; Quartet structure; Core polarization; Electromagnetic transitions; Nuclear spectroscopy; 13340. SP305-5.
- Nuclear structure; Quantum field theory; Relativistic nuclear physics; Axiomatic field theory; Composite particles; Haag's theorem; 15695. SP305-7.
- Nuclear structure; Quantum mechanical precession; Rotational states; Nuclear levels; Nuclear rotation; Nuclear spectroscopy; 9656. SP305-1.
- Nuclear structure; Quartet model; Super-multiplet theory; Nuclear binding energies; Nuclear quartets; Nuclear reactions; 13361. SP305-5.
- Nuclear structure; Radiations; Reactions; Tables;  $\gamma$ -rays; Computers; Data; Decay; ENSDF; Evaluation; Files; Formats; Levels; SP425, pp. 309-312. SP305-7.
- Nuclear structure; Sequential decays; Two-particle reactions; Configuration interaction; Continuum states; Nuclear reactions; 9657. SP305-1.
- Nuclear structure; Short range correlations; Electron scattering; Hydrodynamic model; Isospin mixing; Nuclear charge distribution; 12854. SP305-4.
- Nuclear structure; Three-fluid model; Two-fluid model; Excess neutrons; Isospin; Nuclear charge distribution; 12114. SP305-3.
- Nuclear structure baryon resonances; Resonance photoproduction; Exchange currents; Magnetic moment anomaly; Nuclear magnetic moments; 10820. SP305-1.
- Nuclear surface oscillations; Photon scattering; Polarized photons; Tensor polarizability; Dynamic collective model; Giant resonance; 13820. SP305-6.
- Nuclear surface oscillations; Plane-polarized photons; Giant resonances; Nuclear photon scattering; 14811. SP305-7.
- Nuclear technology; Reactors; Cross sections; Neutrons; Nuclear data; SP299, Volumes 1 and 2. SP305-1.
- Nuclear technology; Reactors; Shielding; Cross sections; Meeting; Neutrons; 10749. SP305-1.
- Nuclear Thomson; Rayleigh; Coherent scattering; Delbrück; Empirical formula; Gamma rays; TN442. SP305-1.
- Nuclear track; Uranium; Activation analysis; Biological material; Fission track; Microanalysis; 11266. SP305-2.
- Nuclear track analysis; Sample homogeneity; Detector techniques; SP422, pp. 457-459 (Aug. 1976). SP305-8.
- Nuclear track technique; Orchard leaves; Steels; Track etch method; Uranium; Boron; Glasses; Image analyzing system; Liver; Microscopy; Neutron activation analysis; Nitrogen; 12688. SP305-4.
- Nuclear track technique; Oxygen tracer; Thermal neutrons; Alpha tracks; Alumina; Cellulose acetate; Citric acid; Image analyzing system; 13758. SP305-5.
- Nuclear track technique; Practical samples; Radiochemistry; Trace analysis techniques; Accuracy error limits; Activation analysis; Atomic absorption; Instrument biases; Isotope-dilution; Method biases; 13763. SP305-5.
- Nuclear track technique; Proton tracks; Activation analysis; Cellulose nitrate detectors; Nitrogen; 12689. SP305-4.
- Nuclear track technique; Standard Reference Material; Thermal stability; Uranium; Fission track; Glass; 13093. SP305-5.
- Nuclear track technique; Standard reference material; Alpha tracks; Biological material; Image analyzing system; Lithium; Microscope; 14244. SP305-6.
- Nuclear track technique; Standard reference material; Steel; Alpha particles; Boron; Ion microprobe mass analyzer; 15789. SP305-8.
- Nuclear track technique; Uranium; Boron; Fission track counting; Glass; Neutron activation analysis; 12573. SP305-4.
- Nuclear wave function;  $\pi$  mesons; Short range correlation; Correlated pairs; High momentum components; Meson-nucleus interactions; 10875. SP305-2.
- Nuclear wave functions; Baryon resonances; Exchange current; High momentum components; Nuclear functions; Nuclear magnetic moments; Nuclear structure; 12629. SP305-4.
- Nuclear weapon theft; Perceptual processes; Psychology; Deterrence; Security systems; Sensory processes; Threat analysis; Behavioral impact; Cognitive processes; NBSIR 7-1007. SP305-8.
- Nuclear weapons data; Structure shielding; Albedo; Cavity defense; Ducts; Neutron penetration; 11988. SP305-3.
- Nuclear-data; Spectra; Standard; Theory; Comparison; Fast; Integral-measurements; Neutron; 13343. SP305-5.
- Nucleate; Boiling; Cryogenic; Film; Forced convection; Hydrogen; Nitrogen; 9740. SP305-1.
- Nucleate boiling; Subcritical; Supercritical; Centrifugal pump; Critical heat flux; Film boiling; Forced convection; Heat transfer; Helium; 13666. SP305-5.
- Nucleate boiling; Subcritical; Supercritical; Critical heat flux; Film boiling; Forced convection; Heat transfer; Helium; 14930. SP305-7.
- Nucleate boiling; Subcritical; Supercritical; Transition; Turbulent flow; Buoyancy; Channels; Film boiling; Forced convection; Helium I; Helium II; Mixed convection; TN675. SP305-8.
- Nucleation; Aerosols; Condensation; Droplets; Evaporation; Kinetic theory; Knudsen number expansion; 15157. SP305-4.
- Nucleation; Droplet growth; Inverse Knudsen number expansion; Kinetic theory; Nearly-free molecular regime; 12953. SP305-4.
- Nucleation; Electron field emission; Hg on W; 9457. SP305-7.
- Nucleation; Ogives; Pumps; Venturi; Cavitation; Cryogenic; Hydrofoil; 13735. SP305-5.
- Nucleation; Ordering; Precipitation; Spinodal decomposition; Age hardening; Copper-titanium; Dia; Metastable solution; Microstructural sequence method; 15053. SP305-7.
- Nucleation; Oriented melt; Rheological unites; Row nucleation; Shish-kebab; Sonicated solution; Spinning; Stirred solution; Crystallization; Cylindrite; Drawing of swollen polymer solution; Epitaxial overgrowth; Extrusion; Hard elastomer; 16253. SP305-8.
- Nucleation; Overcompression; Supercooling; Glassy state; Lennard-Jones system; Monte Carlo simulation; *J. Res. NBS* 80A, 1, 59-64 (1976). SP305-8.
- Nucleation; Particle size; Production; Rate; Cryogenic; Crystallization; Freezing; Growth; Hydrogen; Liquid-solid phase transition; Melting; 9925. SP305-1.
- Nucleation; Phase changes; Transport processes; Crystallization; Crystal growth; Crystallization; Growth mechanism; Morphological stability; 11918. SP305-3.
- Nucleation; Polychlorotrifluoroethylene; Polyethylene; Polymers; Surface free energy; Chain folding; Crystal growth; Crystallization kinetics; Homogeneous nucleation; Interfacial energy; 9454. SP305.
- Nucleation; Polymer; Solution; Surface free energy; Thermodynamics; Bulk; Chain fold; Crystallization; Fluctuation; Growth; Heat of melting; Homogeneous nucleation; Kinetics; Lamella thickness; Melt; Melting point; 11918. SP305-2.
- Nucleation; Pumps; Venturi; Cavitation; Cryogenics; Hydrogen; 13241. SP305-5.
- Nucleation; Reaction rate; Surface; Adsorption; Hydrolysis; Yapatite; Ion exchange; 15019. SP305-7.
- Nucleation; Supercooling; Carbon dioxide; CO<sub>2</sub>; Critical point; 14915. SP305-7.
- Nucleation and growth; Phase decomposition; Phase separation; Sodium-borosilicate; Electron microscopy; Immiscible oil; 12840. SP305-4.



creation of cavities; Segregation nodes; Vacancy condensation; Angular distribution of cavities; Cavitation; Copper; Creep; Grain boundaries; Grain boundary sliding; 13091. SP305-5.

Nucleation rate; Rate constants; Self-nucleation; Steady-state; Cilia; Conformational entropy; Free energy; 12293. SP305-3.

Nucleation rate; Surface free energy; Undercooling; Activity; Chain fold; Cilia; Equilibrium dissolution temperature; Equilibrium melting temperature; Free energy of crystallization; Lamella thickness; 12744. SP305-4.

Nucleation substrate; Polymer; Crystallization; Growth rate; 4376. SP305-6.

Nucleation theory; Phase transitions; Growth of droplets; Kinetic theory of gases; Liquid-vapor phase transitions; Mass transport; 13105. SP305-5.

Nucleation theory; Polyethylene; Polymer crystallization; Polystyrene; Undercooling; Chain folds; Growth rate; Isotactic; Lamellar thickness; 14364. SP305-6.

Nucleation theory; Polyethylene; Surface free energies; Chain folds; Fractions; Homogeneous nucleation; Molecular weight; 79A No. 6, 701-711 (1975). SP305-7.

Nucleation theory; Polyethylene; Regime I; Regime II; Spherulite; Axialite; Chain folds; Crystallization rate; Molecular weight; 79A No. 6, 671-699 (1975). SP305-7.

Nuclei; Orientation; Angular momentum; Atoms; Molecules; 7156. SP305-5.

Nuclei; Particle-hole energy; Quartet structure; Rearrangement; Binding energy; Mass formulae; 12145. SP305-3.

Nuclei; Quarks; Coherent production; Cosmic rays; High momentum components; Many-body clusters; 12144. SP305-3.

Nuclei counters; Particle generators; Particle size measurements; Particle size measurements by electromobility; Particulate standards; Aerosol electrical analyzer; Aerosol generators; Aerosol instrument calibration; Aerosol size measurements; Aerosol spectrometer; SP412, pp. 149-173. SP305-6.

Nucleon potentials; Repulsive core;  $^2\text{He}$ ;  $^3\text{H}$ ; Charge; Form factor; Magnetic; 12056. SP305-3.

Nucleon-nucleon correlations; Photoabsorption; Photon scattering; Sum rules; Effective interaction; Electron scattering; 754. SP305-5.

Nucleon-nucleus scattering; Hadron-hadron scattering; High-energy cross sections; High energy scattering; 10892. SP305-5.

Nucleons;  $\pi$ -mesons; Relativistic nuclear physics; Baryon resonances; Exchange currents; Nuclear magnetic moments; 729. SP305-4.

Nucleophilic reactivity; Onium salts; Polar solvents; Pollutants; Waterminization; Alkyl halides; Antimony; Arsenic; Environment; Kinetics; Methylation; 162284. SP305-8.

Nucleophilic substitution;  $^{15}\text{N}$ -trifluoroacetyl derivative; Derivatives of 6-amino-6-deoxy-D-glucose-6- $^{15}\text{N}$ ; Differential scanning calorimetry;  $^{15}\text{N}$ -labeled amino sugars; Infrared isotopic shift; Mass spectrometry; 12443. SP305-4.

Nucleus; Optical model scattering; Calculations; Cross-section; Neutrons; Nuclear cross-sections; 9747. SP305-1.

Nuclides; Quadrupole moment;  $q$ -values; Radiation; Absorption cross section; Magnetic moment; Mass defect; 13180. SP305-5.

Detector; Parametric amplifier; Varactor amplifier; Audio amplifier; Capacitance bridge detector; Noise reduction; 891. SP305-2.

Detector; Superconductivity; Voltage divider; 12967. SP305-4.

measurable; Remanent field; Saturable ferrite; Detector; Magnetic field; Magnetic null; 10586. SP305-1.

responses; Paired comparisons; Sign test; Statistics; Moulage; Design of experiment; 14042. SP305-6.

point potentiometry; Polarographic analysis; Standard reference materials; analysis; Coulometric analysis; Gas analysis; Mass spectrometric gas analysis; Microchemical analysis; TN425. SP305.

Null-point potentiometry; Potentiometry; Silver; Electroanalysis; Linear potentiometry; Microtitration; 10223. SP305-1.

Number average; Weight average; Gel permeation chromatography (GPC); Linear polyethylene; Molecular weight distribution (MWD); J. 76A No. 2, 163-170 (1972). SP305-4.

Number average molecular weight; Osmometer; Osmotic pressure; Virial coefficient; Concentration dependence; Linear polyethylene; Membrane; J. 76A No. 2, 161-163 (1972). SP305-4.

Number average molecular weight; Osmometry; Refractive index; Standard reference material; Viscosity; Weight average molecular weight; Z average molecular weight; Density; Differential refractive index; Gel permeation chromatography (GPC); SP260-42. SP305-4.

Number average molecular weight; Spectra; Spectrophotometry; Infrared; Linear polyethylene; Methyl; Methylene; J. 76A No. 2, 141-142 (1972). SP305-4.

Number of points; Calibration points; Complex laboratory-scale model; Computer; Coordinate systems; Digital computer; 9202. SP305.

Number of prompt fission neutrons;  $^{235}\text{U}$ ;  $E_0 = 0.2-1.4$  MeV; Fast time-of-flight technique; SP425, pp. 549-552. SP305-7.

Number theory; Numerical analysis; Periodic functions; Quadrature; Approximation; Banach-Steinhaus Theorem; Fourier Series; Multiple integrals; 10967. SP305-2.

Number theory; Numerical analysis; Numerical integration; Periodic (functions); Quadrature; Continued fraction; Diophantine approximation; Integration; Multiple integration; 11584. SP305-2.

Number-average molecular weight; Osmometer; Osmotic pressure; Semipermeable membranes; High speed osmometer; 11185. SP305-2.

Numbering machine; Perfluorostyrene; Shaft position encoder; Staple detector; Superconducting; Synthesis; chemical; Titration; Wind vane; Work positioner; Conductometry; Decoding matrix; Fluoroolefins; Integrator; Magnetic sensing probe; TN744. SP305-4.

Numeric; Alphanumeric; Automatic; Compressor; Computer; Data; Information handling; 10582. SP305-1.

Numeric; Quantity calculus; Quantity equation; Abstract unit; Angle; Dimensional analysis; Measurement unit; 9979. SP305-1.

Numeric compression; Systems analysis; Alphanumeric compression; Information handling; High-speed information transmission; Information storage and retrieval; TN413. SP305.

Numerical; Circular cylinder; Enclosures; Natural convection; 11784. SP305-2.

Numerical; Circular cylinder; Enclosures; Natural convection; 11162. SP305-2.

Numerical; Enclosures; Finite-difference; Fluid flow; Natural convection; J. 72B No. 4, 281-301 (1968). SP305-1.

Numerical; Plasma; Truncation error; Vlasov equation; Expansion coefficients; Hermite polynomials; Non-linear; J. 73B No. 4, 281-291 (1969). SP305-1.

Numerical; Plate; Ring; Solution; Strength; Stress; Coaxial; Deflection; Flexure; Glass; 12460. SP305-4.

Numerical; Selective harmonic excitation; Two-stream; Velocity distribution; Vlasov equation; Electron trapping; Non-linear; J. 73B No. 4, 293-300 (1969). SP305-1.

Numerical analysis; FORTRAN; Least squares fitting; Mössbauer effect; 14285. SP305-6.

Numerical analysis; Numerical integration; Optimal quadrature; Quadrature; Best quadrature; Error functionals; Minimum-norm formulas; 12599. SP305-4.

Numerical analysis; Numerical integration; Quadrature; Analysis; Integration; Mathematics; Monte-Carlo; Multiple integration; 9321. SP305.

- Numerical analysis; Numerical integration; Quadrature; Integral; Integration; Modified Monte Carlo; Monte Carlo; Multiple integral; 10751. SP305-1.
- Numerical analysis; Numerical integration; Quadrature; Analysis; Integration; Mathematics; Monte-Carlo; Multiple integration; 10152. SP305-1.
- Numerical analysis; Numerical integration; Optimal formulas; Quadrature; Best integration formulas; Diophantine approximation; Gaussian quadrature; Integration; Monte Carlo; Multiple integration; Multiple quadrature; 13986. SP305-6.
- Numerical analysis; Numerical integration; Periodic (functions); Quadrature; Continued fraction; Diophantine approximation; Integration; Multiple integration; Number theory; 11584. SP305-2.
- Numerical analysis; Numerical integration; Numerical quadrature; Quadrature; Riemann integral; Singularities; Improper integrals; Integrals; 15180. SP305-7.
- Numerical analysis; OMNITAB II user oriented computing system; Self-teaching; Statistical analysis; Automatic printing; Bessel functions; Data analysis; Data manipulation; Easy and effective programming in English; List of instructions; Matrix operations; 7N552. SP305-3.
- Numerical analysis; Operations research; Systems analysis; Management science; Mathematical models; 15607. SP305-7.
- Numerical analysis; Operators; Approximation theories; Functional analysis; Hilbert and Banach spaces; Iterative methods; 9974. SP305-1.
- Numerical analysis; Optimization; Stochastic Weber problem; Always convergent algorithms; Exponentially distributed points; Facility location; Location theory; Normally distributed points; *J. Res.* 80B No. 1, 53-73 (1976). SP305-8.
- Numerical analysis; Orthogonal functions; Resistance thermometer; 13580. SP305-5.
- Numerical analysis; Periodic functions; Quadrature; Approximation; Banach-Steinhaus Theorem; Fourier Series; Multiple integrals; Number theory; 10967. SP305-2.
- Numerical analysis; Pseudo-random; Quadrature; Random numbers; Sequences; Uniform distribution; Equidistribution; 11629. SP305-2.
- Numerical analysis; Quadrature; Computing; Integration; 10355. SP305-1.
- Numerical calculations; One-dimensional collisions; Oscillator force constants; Potential values; Transition probabilities vs. energy values; Translational-vibrational energy transfer; Atom-diatom transitions; Data tables; NBS-OSRDB-70-3 (AD705110). SP305-3.
- Numerical calculations; Relaxation phenomena; Vibrational populations; Floquet theory; Laser-induced reactions; Multiphoton processes; 16242. SP305-8.
- Numerical computation; Shock compression; Shock propagation; Shock wave; Crystal; Cubic lattice; Hooke's law forces; Lattice dynamics; Morse potential function; 10104. SP305-1.
- Numerical data; Physics; Chemistry; Experimental procedures; *J.6A* No. 2, 67-70 (1972). SP305-4.
- Numerical data; Publication standards; Titles; Abstracts; Chemistry; Content of articles; Data; Description of experiments; Evaluation of data; 11806. SP305-3.
- Numerical error; Perfect lattice; Thermal conductivity; Thermal diffusivity; Thermo-elastic coupling; Continuum theory of diffusion; Density; Kinetic temperature; Molecular dynamics; 16281. SP305-8.
- Numerical integration; Charge profiles; Ionization chambers; *J.79B* Nos. 1 and 2, 65-78 (1975). SP305-7.
- Numerical integration; Numerical methods; Quadrature; Random; Degree of precision; Hadamard matrices; Integration; Monte Carlo; Multiple integrals; 11583. SP305-2.
- Numerical integration; Numerical quadrature; Quadrature; Riemann integral; Singularities; Improper integrals; Integrals; Numerical analysis; 15180. SP305-7.
- Numerical integration; Optimal coefficients; Periodic Quadrature; Algebraic numbers; Approximation; Diophantine approximation; Exponential sums; Functions of several variables; Geometry of numbers; Good lattice points; 1317. SP305-5.
- Numerical integration; Optimal formulas; Quadrature; Best integration formulas; Diophantine approximation; Gauss quadrature; Integration; Monte Carlo; Multiple integration; Multiple quadrature; Numerical analysis; 13986. SP305-6.
- Numerical integration; Optimal quadrature; Quadrature; B quadrature; Error functionals; Minimum-norm formulas; Numerical analysis; 12599. SP305-4.
- Numerical integration; Periodic (functions); Quadrature; Continued fraction; Diophantine approximation; Integration; Multiple integration; Number theory; Numerical analysis; 1151. SP305-2.
- Numerical integration; Photons; Cross sections; Electron pair Exchange; 10284. SP305-1.
- Numerical integration; Propagation of error; Stability; Systems of differential equations; *J.71B2&3-204*, 91-103 (1966). SP305.
- Numerical integration; Quadrature; Analysis; Integrals; Mathematics; Monte-Carlo; Multiple integration; Numerical analysis; 9321. SP305.
- Numerical integration; Quadrature; Integral; Integrals; Modified Monte Carlo; Monte Carlo; Multiple integral; Numerical analysis; 10751. SP305-1.
- Numerical integration; Quadrature; Analysis; Integrals; Mathematics; Monte-Carlo; Multiple integration; Numerical analysis; 10152. SP305-1.
- Numerical integration; Quadrature; Reflection groups; Symmetric groups; Symmetries; Hilbert basis; Integration; Invariant Multiple integrals; 13857. SP305-6.
- Numerical integration; Quadrature; Riemann integral; Bounded variation; Improper integral; Monotonicity; 13858. SP305-
- Numerical integration; Quadrature; Riemann integrals; proper integrals; Integration; 14206. SP305-6.
- Numerical integration; Stability; *J.73B* No. 2, 119-123 (1966). SP305-1.
- Numerical integration; Zeros of Legendre polynomials; Gaussian quadrature; Integral equations; *J.70B4-186*, 249- (1966). SP305.
- Numerical methods; Coherent line formation; *SP332*, pp. 238. SP305-2.
- Numerical methods; Inhomogeneous non-LTE atmosphere; Line formation; *SP332*, pp. 189-225. SP305-2.
- Numerical methods; Partial differential equations; Semiconductor technology; Diffusion equations; Finite-difference techniques; Impurity redistribution; Moving boundary problems; 15175. SP305-7.
- Numerical methods; Quadrature; Random; Degree of precision; Hadamard matrices; Integration; Monte Carlo; Multiple integrals; Numerical integration; 11583. SP305-2.
- Numerical methods; Series summability methods; Convergence acceleration techniques; Epsilon-transformation; Nonlinear series transformation; *J.73B* No. 1, 25-29 (1969). SP305-
- Numerical methods in transfer; Radiative transfer in homogeneous media; Line formation in multi-dimensional media; Matrix methods for integro-differential operators; *SP332*, pp. 138-170. SP305-2.
- Numerical quadrature; Quadrature; Riemann integral; Singularities; Improper integrals; Integrals; Numerical analysis; Numerical integration; 15180. SP305-7.
- Numerical radius; Positive definite; Spectrum; D-stable matrices; Diagonal; Doubly stochastic matrix; Field of values; Gersgorin circles; 13994. SP305-6.
- Numerical radius; Spectrum; Subadditive set valued function; Eigenvalues; Field of values; Gersgorin set; 13845. SP30-

numerical radius; Spectrum stable matrix; Closure; Diagonal matrix; *D*-stability; Field of values; Hadamard product; Inclusion theorem; Kronecker product; 14345. **SP305-6.**

numerical range; Orthogonal; Spectrum; Eigenvector; Normal matrix; 16348. **SP305-8.**

numerical solution; One-dimensional; Plastic-wave propagation; Rate-independent theory; Tapered rods; Aluminum; Experiments; Longitudinal impact; *J.72C No. 4, 231-241 (1968).* **SP305-1.**

numerical solution; Plasma physics; Truncation; Vlasov equation; Eigenfunction; Landau damping; Non-linear; 10780. **SP305-1.**

numerical solution; Point-matching; Electromagnetic scattering; Least-squares; 14266. **SP305-6.**

numerical solution; Shear wave; Elastic medium; Engineering seismology; Ground layer; *SP444, pp. III-1—III-12 (Apr. 1976).* **SP305-8.**

numerical solutions; Constrictions; Gas discharge; Helium; Ionized gas; 16000. **SP305-8.**

numerical solutions; Rotor slowing; Sedimentation equilibrium; Ultracentrifugation; Lamm equation; Molecular weight; 10508. **SP305-1.**

numerical stability; Olver's algorithm; Plasma physics; Recurrence relations; Asymptotic solutions; Chebyshev polynomials; Difference equations; Evaluation of integrals; 13197. **SP305-5.**

numerical subscripts; Patterns; Strings; Vocabulary; Atom symbols; Bond symbols; Chemical diagrams; Formal grammar; Language; Linguistic analysis; Natural groups; 12673. **SP305-4.**

rising homes; Realms; Building fires; Case studies; Critical events; Decisions; Episodes; Fires; Home for the aged; Hospital fires; Human behavior; Institutions; Mapping; Models; *NBS-GCR-76-73, SP305-8.*

rising homes; Reliability; Schools; Smoke detectors; Atriums; Fire detection; Flame detectors; Heat detectors; Hospitals; Hotels; Maintenance; 16179. **SP305-8.**

rising station; Pharmacy; Real-time hospital information system; Remote data input; Administration; Hospital data communications; Laboratory; 9500. **SP305.**

rising units; Architecture; Design; Evaluation; Hospitals; Medical facilities; *BSS54, pp. 63-76. SP305-6.*

ris; Plastic; Plumbing equipment; Tanks; Valves; Bowls; Brass; Dimensions; *P56-66. SP305.*

ry); Photon energy; Cross sections; *SP425, pp. 758-761. SP305-7.*

ron; Oxidation reactions; Oxygen index; Phosphorus; Polyester; Polymer substrates; Pyrolysis-gas chromatography; Textiles; Thermal analysis; Calorimetry; Cellulose; Flames; Flammable gases; *SP411, pp. 37-49. SP305-6.*

ron; Polyacrylonitrile; Polyamides; Reflection of x-rays; Soft x-rays; X-rays; Fibers; Microfocus tubes; Microradiography; 1488. **SP305.**

ron; Wool; Cotton; Cotton/polyester; Extinguishment; Fabric flammability; Fabrics; Fibers; Finishes; Flame retardant treatments; *NBS-GCR-76-71. SP305-8.*

ron, degradation, effect of  $\text{NO}_2$ ; Polymer-gas reactions; polystyrene, atactic, degradation, effect of  $\text{NO}_2$ ; Polystyrene, diffusion of  $\text{NO}_2$  and degradation; Polystyrene, isotactic, degradation, effect of  $\text{SO}_2$ ; *SP357, pp. 101-109. SP305-4.*

quist's theorem; Thermal noise standard; Error analysis; Millimeter wave; Noise; *TN615. SP305-4.*

;  $\text{O}_2^+$ ; Dissociation; Electron impact; Interaction energies; 0444. **SP305-1.**

; Radiative; Transition probability;  $\text{CO}^+$ ;  $\text{CO}_2^+$ ; Coincidence; Electron impact; Ions; Lifetime; Molecule; 15912. **SP305-8.**

Angular distributions; Appearance potentials; Electron impact; Energetic ions; Energy distributions; 9844. **SP305-1.**

$\text{N}_2$ ;  $\text{NO}^+$ ; Quadrupole moment;  $\text{CO}$ ; Hyperpolarizability; Multiconfiguration SCF; 14317. **SP305-6.**

$\text{N}_2$ ; Predissociation; Radiative recombination;  $\Sigma_g^+$ ; Electronic structure; Energy curve; 16442. **SP305-8.**

$\text{N}_2$ ; Resonance width; Shape resonance; Spectroscopic constant; Valence orbital; Electron scatter; Energy curve; Local potential; 11899. **SP305-3.**

$\text{N}_2^-$ ; Valence excited states; Electron scattering resonance; Excited states  $\text{N}_2$ ; Excited states  $\text{N}_2^-$ ; Inelastic scatter; *J.77A No. 4, 411-412 (1973).* **SP305-5.**

$\text{N}_2$  first positive bands; Nitrogen afterglow; Atom recombination; Energy transfer; Lewis-Rayleigh afterglow; N-atoms; 14010. **SP305-6.**

$\text{N}_2$ , resonance energy; Rydberg; Valence; Ar; Correlation energy; Feshbach resonance state; Hartree-Fock; He Ne; HF  $\text{H}_2\text{O}$ ; 11788. **SP305-2.**

$\text{N}_2\text{O}^+$ ; Photoelectron spectroscopy; Franck-Condon factor; Ionization;  $\text{N}_2\text{O}$ ; 12473. **SP305-4.**

$\text{N}_2\text{O}$ ;  $\text{BaO}$ ; Chemical reactions; Chemiluminescent; Electronic spectra; Heat-pipe ovens; 15686. **SP305-7.**

$\text{N}_2\text{O}$ ; Nitrous oscillator strength; Photoabsorption; Electron energy loss; Energy absorption; 15751. **SP305-8.**

$\text{N}_2\text{O}$ ;  $\text{N}_2\text{O}^+$ ; Photoelectron spectroscopy; Franck-Condon factor; Ionization; 12473. **SP305-4.**

$\text{N}_2\text{O}$ ; Oscillator strengths; Electron energy loss; Low energy electron impact; 15467. **SP305-7.**

$\text{N}_2\text{O}$ ; Oscillator strengths; UV; Electron energy loss; 15998. **SP305-8.**

$\text{N}_2\text{O}$ ;  $\text{O}^+\text{S}-\text{O}^+\text{D}$  emission; Photodissociation; Vacuum ultraviolet; Collisional stimulations; 13323. **SP305-5.**

$\text{N}_2\text{O}$ ; Photoelectrons; Photoionization; Spectroscopy;  $\text{C}_2\text{H}_2$ ; Franck-Condon principle;  $\text{H}_2\text{O}$ ;  $\text{NH}_3$ ; 12118. **SP305-3.**

$\text{N}_2\text{O}$ ; Photolysis; Vacuum ultraviolet; Energy transfer; Excited species; Fluorescence; Gas phase; 10208. **SP305-1.**

$\text{N}_2\text{O}$ ; Rate constant; Vapor phase; Ion-molecule reaction; Mass spectrometry; 14464. **SP305-6.**

$\text{N}_2\text{O}$ ; Rectilinear diameter; Refractive index;  $\text{CClF}_3$ ;  $\text{CO}_2$ ; Coexistence curve; Critical region; 12341. **SP305-3.**

$\text{N}_2\text{O}$ ; Relative intensities;  $\text{H}_2\text{CO}$ ; Inelastic electron scattering; Infrared transitions; 16578. **SP305-8.**

$\text{N}_2\text{O}$ ,  $\text{N}_2^+$  photoionization; Bond-dissociation energy; 10279. **SP305-1.**

$\text{N}_2\text{O} + \text{CO}_2^-$  reaction;  $\text{O}^- + \text{CO}_2$  reaction;  $\text{O}_2^- + \text{CO}$  reaction; Charge transfer;  $\text{CO}_2^+$ ;  $\text{CO}_3^+$ ;  $\text{CO}_3^{2-}$ ; Infrared spectrum; K atom reactions; 14563. **SP305-6.**

$\text{N}_2\text{O}_2^-$ ;  $\text{O}^-$  reactions; Alkali metal reactions; Charge transfer; Electron attachment; Infrared spectrum; Matrix isolation;  $\text{NO}^-$ ;  $\text{NO}_2^-$ ; 12415. **SP305-4.**

$\text{N}_2\text{O}_4$ ;  $\text{NO}_2$ ; Spectra; Temperature effects; Absorption; Extinction coefficients; *J. Res. 80A No. 2, 143-166 (1976).* **SP305-8.**

$\nu_3$ ; Vibration-rotation;  $\zeta_3$ ;  $\zeta_4$ ; Band contours;  $\text{BF}_3$ ; Coriolis force; Force fields; High resolution; Infrared; 9268. **SP305.**

$\text{N}_{6,7}$ ; Soft x-ray; Au;  $\text{AuAl}_2$ ; *d*-bands; Emission spectrum; 13952. **SP305-6.**

$\nu_7$ ; Upper state rotational constants; C—H stretching region; Coriolis interaction; Ethane; Ground state rotational constants; Perpendicular band; 10880. **SP305-2.**

- O<sup>+</sup>; Photoionization; Carbon dioxide; CO<sup>+</sup>; CO<sub>2</sub><sup>+</sup>; Dissociative ionization; 13859. SP305-6.
- O<sup>-</sup>; O<sub>2</sub><sup>-</sup>; Photodetachment; Photodissociation; CO<sub>2</sub><sup>-</sup>; CO<sub>2</sub><sup>-</sup>·H<sub>2</sub>O; D region; Electron density; Molecule; Negative ion; 15877. SP305-8.
- O; Photochemistry; Vacuum ultraviolet; Atomic lines; Br; C; Flow lamp; N; 10895. SP305-2.
- O<sup>-</sup>; Photodetachment; Photoelectron spectroscopy; Angular distribution; C<sup>-</sup>; H<sup>-</sup>; Negative ion; 10482. SP305-1.
- O and B stars; Doppler noncoherence in electron scattering; Electron scattering; Line formation; 10658. SP305-1.
- O and C K $\alpha$  x-ray emission spectra; O K absorption spectra; Molecular CO<sub>2</sub>; Molecular oxygen; 15256. SP305-7.
- O atoms; Spectrometric study; Atoms; Mass spectrometer; 9784. SP305-1.
- O K absorption spectra; Molecular CO<sub>2</sub>; Molecular oxygen; O and C K $\alpha$  x-ray emission spectra; 15256. SP305-7.
- O, O<sup>-</sup>; Pair-correlation energy; Shell-correlation energy; Symmetry-adapted; Electron affinity; 12821. SP305-4.
- O<sup>-</sup> reactions; Alkali metal reactions; Charge transfer; Electron attachment; Infrared spectrum; Matrix isolation; NO<sup>-</sup>; NO<sub>2</sub><sup>-</sup>; N<sub>2</sub>O<sub>2</sub><sup>-</sup>; 12415. SP305-4.
- OA0 spectroscopic observations; Stellar chromospheres; Stellar ultraviolet observations; Late-type stars; 14031. SP305-6.
- OAS; Standardization; AID; Assistance; Economics; Foreign relations; Industrializing nations; LDC's; Measurement services; NBSIR 75-769. SP305-7.
- O-atom reaction; Structure; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; CO<sub>2</sub>; CO<sub>2</sub>; Force constants; Infrared spectrum; Matrix isolation; 12101. SP305-3.
- Obituary; Kiess, Carl C.; 10407. SP305-1.
- Object-image curves; Paraxial; Two-tube electrostatic lens; Weak lenses; Focal properties; Near-unity voltage ratios; 14170. SP305-6.
- Objective lenses; Resolution test; Variable contrast resolution; Contrast curves; Low contrast resolution; Night vision; 14950. SP305-7.
- Objectives; Operation; Status; Future plans; National Standard Reference Data System; 9283. SP305.
- Objectives; Operations; Physical determinism; Physical environment; Activities; Communication; Courthouse; Human performance; Institutional performance; Judicial system; Mutual adaptation; SP361, Vol. 1, pp. 83-91. SP305-4.
- Objectives, output; Performance measurement; Production indices; Production measurement; Impact; TN890. SP305-7.
- Oblate planet; Satellite astronomy; Spheroidal method; Astronomy; Dynamical astronomy; 10250. SP305-1.
- Oblate planet; Satellite spherical method; Artificial satellite; Gravitational potential; 10111. SP305-1.
- Oblique incidence; Standing waves; Electric fields; Laser damage; SP462, pp. 25-28 (Dec. 1976). SP305-8.
- Observation of chips during grinding; Steatite; Alumina; Brittle fracture; Chip removal process; Forsterite; Glass-ceramics; Grinding of ceramics; Micro-flash technique; SP348, pp. 37-43. SP305-4.
- Observations; Radio frequencies; Starfish; Synchrotron radiation; Decay; Intensity; Magnetic equator; 10237. SP305-1.
- Observations of solar spectra lines; Solar atmosphere; Solar chromosphere; Solar plages; 13130. SP305-5.
- Observed (technical) fluorescence parameters; Polarization; Radiative and nonradiative transition probabilities; Real fluorescence parameters; Fluorescence lifetime; Fluorescence quantum efficiency; Fluorescence quantum yields; J. Res. 80A No. 3, 389-399 (1976). SP305-8.
- Obstetrics; Ovulation-detection; Open heart surgery; Pediatric surgery; Pyrogens; Sweating; Temperature, central body; Thermocouple disconnect; Thermoelectric thermometry; Thermometer; Vasodilation; Warm sensitive neuron; Anesthesiology; 13631. SP305-5.
- Obstruction; Riding toys; Stairway; Static stability; Test weight; Tilt angle; Toy testing; Abuse testing; Dynamic stability; Hazards; NBSIR 74-623. SP305-7.
- Occlusions in crystals; Sodium chlorate; Solution-growth crystals; Ammonium dihydrogen phosphate; Crystal defect; Crystal growth; Crystal-growth forms; Mother-liquor inclusions; 10856. SP305-1.
- OCCL; Photodissociation; Vacuum ultraviolet; Absorption coefficient; Cl<sub>2</sub>; Emission; Electronic energy; 12289. SP305-3.
- Occupancy; Stochastic predictive models; Survey; Technological Computer simulation; Live and fire loads; 14102. SP305-6.
- Occupancy live loads; Load surveys; Structural engineering; Survey techniques; Buildings; Fire loads; TN858. SP305-7.
- Occupancy live loads; Structural engineering; Buildings; Fire loads; Load surveys; 16072. SP305-8.
- Occupancy live loads; Structural engineering; Buildings; Fire loads; Load surveys; BS585. SP305-8.
- Occupancy loads; Fire loads; Live floor loads; Load survey techniques; BSS16. SP305-1.
- Occupancy safety; Slip-resistance; Slip-resistance testers; Walking friction; Building safety; Floor surface friction; TN89. SP305-8.
- Occupant behavior; Operation Breakthrough; Performance evaluation; Architectural psychology; Dwelling unit; Federal building research; Industrialized housing; 15190. SP305-7.
- Occupant restraint system research; Research information exchange; Role of NBS motor vehicle safety; Tire system research; Braking system; 9604. SP305-1.
- Occupant restraint systems; Seat; Seat belts; Acceleration (mechanical); Biodynamics; Biomechanics; Human engineering; Kinematics; 11851. SP305-3.
- Occupant safety; Disaster research; High rise building fire; TN818. SP305-6.
- Occupation number; Permutation symmetry of wave function; Quantum mechanics; Second quantization; Field operators and statistics; Fock space; 13372. SP305-5.
- Occupation waves; Selenides; Semiconductor-to-metal transitions; Structure transitions; Sulfides; Tellurides; Transitional metal chalcogenides; Trigonal-prismatic coordination; Dichalcogenides; Intercalation compounds; Layer structures; SP360, pp. 625-635. SP305-4.
- Occupational exposure standard criteria; Occupational health control; Precision; Trace element analyses; Accuracy; Blood lead analyses; Clinical chemistry; Industrial lead hygiene; Interlaboratory correlations; Lead hygiene control; SP422, pp. 275-282 (Aug. 1976). SP305-8.
- Occupational hazards; Performance standard; Personnel railings; Personnel safety; Static loads; Stiffness; Structural safety; Design; Dynamic loads; Guardrails; Industrial accidents; Nonstructural safety; NBSIR 76-1131. SP305-8.
- Occupational hazards; Performance standard; Personnel railings; Personnel safety; Structural safety; Anthropometric measurements; Guardrails; Industrial accidents; Nonstructural safety; NBSIR 76-1132. SP305-8.
- Occupational health control; Precision; Trace element analyses; Accuracy; Blood lead analyses; Clinical chemistry; Industrial lead hygiene; Interlaboratory correlations; Lead hygiene control; Occupational exposure standard criteria; SP422, pp. 275-282 (Aug. 1976). SP305-8.
- Occupational injuries; Protective clothing; Protective equipment; Firefighter injuries; Injury statistics; 13347. SP305-5.
- Occupational safety; Acrolein; Gas chromatography; Natural gas dilution system; NBSIR 73-258. SP305-7.
- Occupational safety; Atomic absorption; Gas generation systems; Mercury; NBSIR 73-254. SP305-6.
- Occupational safety; Gas blending system; Hydrogen cyanide ion selective electrode; NBSIR 73-257. SP305-7.



occupational safety; Gas chromatography analysis; Gas dilution system, methyl bromide; *NBSIR 73-259. SP305-7.*

occupational safety and health; Fatalities; Fire fighter; *NBS-GCR-76-60. SP305-8.*

occupation-related air pollutants; Oil spills; Radioactive pollutants; Stratospheric air pollution; Water quality; Water pollution; Air pollution; Air quality; Auto emissions; Clean air and water; Environmental quality; Metal contaminants; *DIM/NBS 57, No. 10, 225-252 (1973). SP305-5.*

occupied bands; Soft x ray; Band structure; Cu; Deep probes; Emission; *11952. SP305-3.*

ocean biota analysis; Phthalate trace analysis; Air analysis; Analytical blank; Gas chromatography; *SP422, pp. 701-708 (Aug. 1976). SP305-8.*

ocean waves; Probability theory; Storms; Storm surges; Wind; Coastal engineering; Damage; Hurricanes; *12714. SP305-4.*

oceanographic temperature measurements; Temperature measurement; Temperature sensors; Thermometry; Time constant; Time response; *15074. SP305-7.*

oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure seal; Pressure vessel; Resistance; Resistance thermometer; Test; Thermometer; Thermometer leads; Thermostated bath; Vacuum; Water light; Bridge; Deep-sea thermometer; *TN894. SP305-8.*

oceanography; Sea water-return cable; Electromagnetic measurements; *14711. SP305-6.*

oceanography; Solid state; Water pollution; Agriculture; Air pollution; Analytical chemistry; Biomedicine; Clinical chemistry; Electronics; *SP351. SP305-4.*

oceanography; Technique used; Activation analysis; Element determined; Matrix analyzed; *TN534. SP305-2.*

ohkur approximation; Born approximation; Cross sections; Electrons; Excitation cross sections; Helium; *10445. SP305-1.*

ohkur-Rudge approximation; Ab initio Gaussian wave functions; Electron impact excitation; Exchange amplitude;  $O_2 \Delta_g$  state; *J.76A No. 6, 661-663 (1972). SP305-4.*

OCR; OCR forms; Optical character recognition; Standards; Business forms; Computers; Data entry systems; Information processing systems; Information processing standards; *FIPS PUB 40. SP305-8.*

OCR; OCR-A character set; OCR-B character set; OCR character sets; OCR forms; OCR paper; Optical character recognition; USASI X3.1; Information processing standards; ISO DR966 OCR character sets National Bureau of Standards; *11264. SP305-2.*

OCR applications; OCR as an archival tool; OCR bibliography; OCR history and growth; OCR as a library tool; Optical character recognition; *10517. SP305-1.*

OCR as a library tool; Optical character recognition; OCR applications; OCR as an archival tool; OCR bibliography; OCR history and growth; *10517. SP305-1.*

OCR as an archival tool; OCR bibliography; OCR history and growth; OCR as a library tool; Optical character recognition; OCR applications; *10517. SP305-1.*

OCR bibliography; OCR history and growth; OCR as a library tool; Optical character recognition; OCR applications; OCR as an archival tool; *10517. SP305-1.*

OCR character sets; OCR forms; OCR paper; Optical character recognition; USASI X3.1; Information processing standards; ISO DR966 OCR character sets National Bureau of Standards; OCR; OCR-A character set; OCR-B character set; *11264. SP305-2.*

OCR forms; OCR paper; Optical character recognition; USASI X3.1; Information processing standards; ISO DR966 OCR character sets National Bureau of Standards; OCR; OCR-A character set; OCR-B character set; *11264. SP305-2.*

OCR forms; Optical character recognition; Standards; Business forms; Computers; Data entry systems; Information processing systems; Information processing standards; OCR; *FIPS PUB 40. SP305-8.*

OCR history and growth; OCR as a library tool; Optical character recognition; OCR applications; OCR as an archival tool; OCR bibliography; *10517. SP305-1.*

OCR paper; Optical character recognition; USASI X3.1; Information processing standards; ISO DR966 OCR character sets National Bureau of Standards; OCR; OCR-A character set; OCR-B character set; OCR character sets; OCR forms; *11264. SP305-2.*

OCR standards; Optical character recognition; Automatic pattern recognition; Handprinted characters; *10200. SP305-3.*

OCR-A character set; OCR-B character set; OCR character sets; OCR forms; OCR paper; Optical character recognition; USASI X3.1; Information processing standards; ISO DR966 OCR character sets National Bureau of Standards; OCR; OCR-A character set; *11264. SP305-2.*

OCR-B character set; OCR character sets; OCR forms; OCR paper; Optical character recognition; USASI X3.1; Information processing standards; ISO DR966 OCR character sets National Bureau of Standards; OCR; OCR-A character set; *11264. SP305-2.*

OCS; Spectra; Spectroscopy; Carbonyl sulfide; Energy levels;  $\delta$ -doublet transitions; Microwave spectra; Molecular structure; *9919. SP305-1.*

Octacalcium phosphate; Bone mineral; Crystal growth; Hydroxyapatite; *9608. SP305-1.*

Octacalcium phosphate; Pore size distribution; Pore volume; Surface area; Surface chemistry; Teeth; Adsorption; Anorganic bone mineral and dentin; Bone; Calcium phosphate; Hydroxyapatite; *9859. SP305-1.*

Octacalcium phosphate; Pyrolysis; Pyrophosphate; Stoichiometry; Whitlockite;  $\beta$ -tricalcium; Calcification; Calcium; Dicalcium phosphate; *15996. SP305-8.*

Octacalcium phosphate; Solubility; Surface; Amorphous calcium phosphate; Bone mineral; Fluorapatite; Hydroxyapatite; Morphology; Nonstoichiometry; *16307. SP305-8.*

Octadiene; Addition reactions; *cis, trans*; Hydrogen atom; *11016. SP305-2.*

Octafluorotrisilane; Silicon; Spin coupling constants; Chemical shift; Double resonance; Fluorine; Fluorosilanes; Nuclear magnetic resonance; *10278. SP305-1.*

Octahedral complex; Single crystal; Structure; Tetrakispyrazole-nickel chloride; X-ray; *10240. SP305-1.*

Octahedral coordination; Pyrazole; Trigonal symmetry; X-ray structure determination; Inorganic coordination complex; *11826. SP305-3.*

Octahedral coordination; Transition metal-Co(III)-coordination complex; Dipyrindine and nitrate ligands; Hydrogen bonding; Monoclinic symmetry; *12557. SP305-4.*

Octahedral coordination complex; Trigonal symmetry; X-ray structure determination; Imidazole; Ligand; *11107. SP305-2.*

Octahedral nickel(II); Spin-forbidden bands; Crystal spectrum; Hexakis(imidazole)nickel(II)nitrate; *J.72A No. 6, 765-768 (1968). SP305-1.*

Octave; Optical density; Order; Symbols; Units; Brigg; Logarithmic scales; *11057. SP305-2.*

Octet; Selection rule; Symmetry;  $A_2$ ; Boson; Decay; *11047. SP305-2.*

Octet symmetry breaking; Q plots; Reaction cross section; Strong interactions; Sum rules; Super-resonance; U-spin equalities; *9938. SP305-1.*

Octupole deformation; Photon absorption; Quadrupole resonance; Deformed nuclei; Giant resonance; Nuclear hydrodynamics; *9296. SP305.*

OD<sup>-</sup> ions; OH<sup>-</sup> ions; Photodetachment; Cross section; Electron affinity; Molecular structure; Negative hydroxyl ion; *9285. SP305.*

- Odd configurations; Parameters; Second spectra; Copper; Energy levels; Interaction between configurations; *J73A No. 6, 599-609 (1969)*. **SP305-1.**
- Odd-order; Turbulence; Correlations; Even-order; Grid; Hot-wire anemometer; Isotropy; Nonlinear response; *10349*. **SP305-1.**
- OECD; Technical information; Information packages; Information policy; Information systems; Information users; *13695*. **SP305-5.**
- OECD; Technical information; Information packages; Information policy; Information systems; Information users; *12636*. **SP305-4.**
- Oelfin; Ozone; Rate constant; Kinetics; Mass spectrometry; Nitrogen dioxide; *14956*. **SP305-7.**
- OER; Radiotherapy; Absorbed dose; Cell survival; Heavy particles; *SP425*, pp. 533-539. **SP305-7.**
- OESLA; Standards-making bodies; Engineering standards; International and national standards activities; *9315*. **SP305.**
- OESLA established at NBS; Standards-making bodies; Focal point; *9750*. **SP305-1.**
- o*-ethoxybenzoic acid; Solubility and disintegration; Zinc oxide-eugenol cement; Filling material; *9596*. **SP305-1.**
- o*-ethoxybenzoic acid cements; Pulp capping materials; Zinc oxide-EBA-eugenol cements; Crown and bridge cements; Dental cements; EBA cements; EBA sedative bases; Intermediate restorative; *SP354*, pp. 101-111. **SP305-4.**
- Of stars; Stellar atmospheres; Stellar spectra; Dielectric recombination; Ionized nitrogen; *12917*. **SP305-4.**
- Office building; Performance; Building procurement; Building systems; Hospital planning; *SP361, Vol. 1*, pp. 73-82. **SP305-4.**
- Office building; Performance evaluation; Cost analysis; Design criteria; External envelope; *SP361, Vol. 1*, pp. 395-406. **SP305-4.**
- Office buildings; Commercial buildings; Energy conservation; Energy consumption; Manchester office building; National Bureau of Standards; New York State offices; *16547*. **SP305-8.**
- Office buildings; "open" systems; Performance specifications; Building process; Building systems; "closed" systems; Management; *SP361, Vol. 1*, pp. 357-374. **SP305-4.**
- Office buildings; Performance criteria; Systems, building; *14101*. **SP305-6.**
- Office of Invention and Innovation; Technological innovation; Experimental Technology Incentives Program; Inventors; National Bureau of Standards; *SP388*, pp. 131-135. **SP305-6.**
- Office of Standard Reference Data; Questionnaire; Survey; Users; American Chemical Society; Chemical and physical properties; Compilation; Data; NSRDS; *10123*. **SP305-1.**
- Office of Weights and Measures; Path-space measure; Pierre Simon de Laplace; Rejection of observations; Stirling's formula; Stirling's numbers; *Théorie analytique des probabilités*; William Chauvenet; Abraham De Moivre; *11618*. **SP305-2.**
- Off-null technique; Small attenuation changes; Two-channel; Attenuation; Microwave; *11410*. **SP305-2.**
- Offset frequency; Prediction; Rotation of the earth; Coordinated Universal Time; *10310*. **SP305-1.**
- Offshore zone; Oscillatory water tunnel; Permeability effect on sand transport; Ripples, sand; Sand motion under waves; Beach accretion; Coastal processes; *15793*. **SP305-8.**
- Off-the-energy-shell behavior; Potential model calculation; Proton-proton bremsstrahlung; Differential cross section; Noncoplanar proton bremsstrahlung; *11295*. **SP305-2.**
- Off-the-energy-shell behaviour; Potential model calculation; Proton-proton bremsstrahlung; Scattering amplitude; Coplanar and non-coplanar events; Differential cross section; Double scattering term; *10633*. **SP305-1.**
- Off-the-energy-shell matrix elements; Photon; Potential model calculations; Proton-proton bremsstrahlung; Angular distributions; Low energy approximation; Non-coplanarity; *10911*. **SP305-2.**
- Ogives; Pumps; Venturi; Cavitation; Cryogenics; Hydrofoil; Nucleation; *13735*. **SP305-5.**
- Ogives; Pumps; Venturi; Cavitation; Cryogenics; Hydrofoil; Impellers; Inducers; *14681*. **SP305-6.**
- $O^+$  +  $CO_2$  reaction;  $O_2^-$  +  $CO$  reaction; Charge transfer;  $CO_2^-$ ;  $CO_3^-$ ;  $CO_3^{2-}$ ; Infrared spectrum; K atom reactions; Matrix isolation; Molecular structure;  $N_2O$ ; *14563*. **SP305-6.**
- $O^+$  +  $O_2$  reaction;  $O_2^-$  anion;  $O_4^-$  anion; Structure; Ultraviolet spectrum; Charge transfer; Infrared spectrum; Isotopic substitution; Matrix isolation; *12938*. **SP305-4.**
- $OH^+$ ; Photoionization; Predissociation; Rydberg states; Ammonia; Appearance potential; Autoionization; Deuterated species; Enthalpy of formation; Ionization potential;  $NH_2^+$ ; *16539*. **SP305-8.**
- $OH^+$  ions; Heats of formation; Ionization thresholds; Mass spectrometer; Photoionization; Radicals; Rydberg levels; Vacuum monochromators; Autoionization; Electronic; Excited states;  $H_2O^+$ ;  $NH_3^+$ ; *J70A6-417, 459-463 (1966)*. **SP305.**
- OH; Optical pumping; Radiowave spectrum; Comet fluorescence; *14559*. **SP305-6.**
- OH; Pollution; CH; Free radical; HCO;  $HO_2$ ; Laser magnetic resonance; *15680*. **SP305-7.**
- OH; Radiative lifetimes; Spin uncoupling; Vibration-rotation interaction; Vibrational transitions; Einstein coefficients; Line strengths; Meinel bands; Molecular spectra; *14767*. **SP305-7.**
- OH; Radicals;  $CH_3$ ; Flames; H; Mass spectrometry; *13672*. **SP305-5.**
- OH; Radio; Search; Comet; HCN;  $HCN$ ; Kohoutek; *15262*. **SP305-7.**
- OH; Spectroscopy; Astronomical OH emission;  $H_2O$  laser; Magnetic resonance; *11954*. **SP305-3.**
- OH ions; Photodetachment; Cross section; Electron affinity; Molecular structure; Negative hydroxyl ion;  $OD^-$  ions; *9285*. **SP305.**
- OH microwave transition; Radio astronomy; Saturation; Stimulated emission; *13553*. **SP305-5.**
- OH radiation; Polarization; Saturation effect; *9574*. **SP305-1.**
- OH radiative association rate; Predissociation widths; Interstellar clouds; Interstellar molecule formation; Inverse predissociation; Non-adiabatic mixing; *12457*. **SP305-4.**
- OH radical; Ozone; Stratosphere; Ammonia; Kinetics; *13956*. **SP305-6.**
- O-heterocycles; Radio gas chromatographic analysis; Selective inhibition; Selectivity; Self-inhibition; Thermal control; 1-butene; 2-butene; Concurrent reactions; Consecutive reactions; Controlled oxidation; Conventional additive experiments; *SP357*, pp. 111-117. **SP305-4.**
- Ohm; Units; Absolute farad; Absolute ohm; Calculable capacitor; Cross capacitor; Electrical units; Farad; *14927*. **SP305-7.**
- OH-18-cm radiation; Optical pumping; Polarization; Comet fluorescence; *16513*. **SP305-8.**
- Oil; Organic acid; Serums; Soap; Stabilizer; Styrene-butadiene rubber (SBR); Washes; Bound styrene; Carbon black; Chemical analysis; Latexes; *TN485*. **SP305-1.**
- Oil; U-tube; Vacuum measurement; Water; Manometers; Mercury; Micrometer; *9413*. **SP305.**
- Oil baths; Standard cells; Thermoelectric; Connector; Electromotive force; *TN353*. **SP305.**
- Oil filters; Oil monitors; Particle detectors; Spectrograph; Chromatographs; Ferroglyph; Lube oil analysis; Magnetic drain plugs; *NBS-GCR-74-23*. **SP305-8.**
- Oil monitors; Particle detectors; Spectrograph; Chip detector; Ferroglyph; Lube oil analysis; Magnetic drain plugs; Oil filters; *NBS-GCR-74-23*. **SP305-8.**
- Oil slicks and tar balls; Petroleum hydrocarbon measurement; Sampling methods; World Meteorological Organization

(WMO); Analytical methods; Data reporting procedures; Inter-governmental Oceanographic Commission (IOC); Marine pollution (petroleum) monitoring; *SP409*. **SP305-6.**

l spill; Petroleum; Quantitation; Gas chromatography; Liquid chromatography; *16423*. **SP305-8.**

l spills; Radioactive pollutants; Stratospheric air pollution; Water quality; Water pollution; Air pollution; Air quality; Auto emissions; Clean air and water; Environmental quality; Metal contaminants; Occupation-related air pollutants; *JIM/NBS 57*, No. 10, 225-252 (1973). **SP305-5.**

ML; Developing countries; International Bureau (BIML); International Committee (CIML); International Conference; International Organization of Legal Metrology; International Recommendations; Legal metrology; *13454*. **SP305-5.**

l paper; Paper, aging of; Paper, stability of; Paper testing; Stability of paper; Aging of paper; Archival materials; Natural aging; *NBSIR 74-501*. **SP305-7.**

fin; Ozone; Photochemical smog; Rate constant; Air pollution; Kinetics; Mass spectrometry; *13555*. **SP305-7.**

fin; Rate constant; Acetylene; Activation energy; Atomic nitrogen; Chemical kinetics; *10653*. **SP305-1.**

fin; Absolute rate constants; Apparatus; Flash photolysis-emission spectroscopy; Hydrogen atom reactions; Lyman- $\alpha$  fluorescence; *10462*. **SP305-1.**

fin; Atomic oxygen; Gas phase kinetics; *14333*. **SP305-6.**

fin; Orientation; Quantum tunneling; Atom addition; Hydrogen isotopes; Low temperatures; *12040*. **SP305-3.**

fin; Oxidation; Oxygen atom; Low temperature chemistry; *793*. **SP305-1.**

fin; Oxidation; Oxygen atom; Propylene; 1-butene; Low temperature chemistry; *10377*. **SP305-1.**

fin; Oxygen atom; 2-butene; Chemistry; Low temperature; *1116*. **SP305-2.**

fin; Oxygen atoms; Intermediate; *12716*. **SP305-4.**

fin; Oxygen atoms; Low temperature chemistry; *11353*. **SP305-2.**

fin; Oxygen atoms; Low temperature; *11544*. **SP305-2.**

fin; Paraffins; Propylene; Pyrolysis; Rate constants; Unimolecular theory; Acetylene; Dissociation; Elementary reactions; Ethane; Ethylene; Hydrocarbons; Kinetics; Mechanism; Methane; *SP357*, pp. 17-25. **SP305-4.**

fin; Photoionization; Cyclohexane; Cyclopropanes; Ion-molecule reactions; *15010*. **SP305-7.**

fin; Rate constant; Singlet oxygen;  $O_2$   $\Delta_g$ ; Chemical kinetics; Mass spectrometry; *13298*. **SP305-5.**

fin; Rates; Spectrometry; Atoms; Mass; Mechanisms; Nitrogen; *9329*. **SP305.**

fin; Silver nitrate; Aromatics; Gas analysis; Gas chromatography; Isotope effect; Isotopic separation; *13291*. **SP305-5.**

fin; Silver nitrate; Surface effect; Aliphatics; Aromatics; Complexing effects; Gas chromatography; Group separation; Mercuric nitrate; *12024*. **SP305-3.**

fin; Singlet oxygen; Air pollution; Chemical kinetics; Chemistry; Gas kinetics; *12158*. **SP305-3.**

fin; Water analysis; Aromatics; Gas chromatography; Isotope dilution; *12023*. **SP305-3.**

um; Sulfonation; Cation exchangers; Ion exchangers; *11957*. **SP305-3.**

um; Sulfonation; Cation exchangers; Ion exchangers; *11537*. **SP305-2.**

omers; Rates; Alkanes; Esters; Heat capacity; Heats of vaporization; *15357*. **SP305-7.**

omers; Sebacates; Triglycerides; Correlation; Esters; Heat capacity; *16275*. **SP305-8.**

opeptide; Titration curve; Ion binding; Nearest-neighbor interaction; *14544*. **SP305-6.**

es, green, package quantities of; Package quantities of green olives; Green olives, package quantities of; *PS40-70*. **SP305-3.**

Olver's algorithm; Plasma physics; Recurrence relations; Asymptotic solutions; Chebyshev polynomials; Difference equations; Evaluation of integrals; Numerical stability; *13197*. **SP305-5.**

Omega; Optical pumping; Precision; Quartz crystal oscillators; Radio T/F dissemination; Rb frequency standards; Satellite T/F dissemination; Short-term stability; SI Units; TAI; Television T/F dissemination; Thallium beam standards; Time; Time dispersion; *Monogr. 140*. **SP305-6.**

Omega; Precision time; Time broadcasts; Time code; VLF timing; *13436*. **SP305-5.**

Omega; Time; Time dissemination; VLF propagation; Zonal harmonics; Diurnal phase; *TN610*. **SP305-4.**

Omega phase; Rigid-band approximation; Superconducting transition temperatures; Tantalum-tungsten (Ta-W); Ti-Mo; Titanium-molybdenum (Ti-Mo) alloy; Tungsten (W); W-Re; Alloys; Bcc transition metal alloys; Charging effect; *SP323*, pp. 587-596. **SP305-4.**

Omega time code; Precise time receiver; Precise timing; Time code receivers; VLF timing; Multiple frequency timing; *12531*. **SP305-4.**

Omnidirectional pressure probe; Pressure probe shroud; Static pressure; Weatherproof pressure probe; Wind field pressure measurements; Ambient pressure probe; *U.S. Patent 3,950,995*. **SP305-8.**

Omni-directional probe; Reflectivity; Three-dimensional scanning; Anechoic chamber evaluation; *14952*. **SP305-7.**

OMNITAB; Regression; Rounding errors; Statistics; Analysis of variance; Computer programs; Gram-Schmidt orthogonalization; Householder transformations; Ill-conditioned test problems; Iterative refinement; Least squares computations; Linear equations; *13981*. **SP305-6.**

OMNITAB; Statistics; Computing, statistical; Documentation for users; *TN756*. **SP305-5.**

OMNITAB computing system; Statistical computation; Table making; Accuracy of computation; Computing for nonprogrammers; Computing system; Data analysis; Least squares computation; *11708*. **SP305-2.**

OMNITAB II; Minitab; Statistical computing; Text editing; Computer applications; *NBSIR 75-649*. **SP305-7.**

OMNITAB II; Overlay; Segmentation; System parameters; Transportable computer programs; ANSI FORTRAN; Double precision; General-purpose computer program; Implementation of OMNITAB II; Labeled common; Machine independent; *TN550*. **SP305-2.**

OMNITAB II; Overlay procedures; SCOPE operating system; Segmentation; ANSI FORTRAN; General-purpose computer program; Implementation of OMNITAB II; Links; *TN734*. **SP305-4.**

OMNITAB II; Software; Test problems; Accuracy; ANSI FORTRAN; Computer system implementation; Examples; *TN551*. **SP305-3.**

OMNITAB II computing system; Regression; Statistical problem solving; Distribution of first significant digit; Dutch; Graeco-Latin square; Language translation; Natural language; *13120*. **SP305-5.**

OMNITAB II computing system; Technology transfer; Terminals; Acceptance tests; AID; Bolivia; CENACO; Computing using Spanish; Foreign relations; International agreement; Lectures; *NBSIR 76-1176*. **SP305-8.**

OMNITAB II operating system subprograms; OMNITAB II source listing; Programming techniques; Transportable; User-oriented computing system; Accuracy; Algorithms; ANSI FORTRAN; Documentation; Error checking; Machine independent; *SP339*. **SP305-3.**

OMNITAB II source listing; Programming techniques; Transportable; User-oriented computing system; Accuracy; Algorithms; ANSI FORTRAN; Documentation; Error checking; Machine independent; OMNITAB II operating system subprograms; *SP339*. **SP305-3.**

- OMNITAB II user oriented computing system; Self-teaching; Statistical analysis; Automatic printing; Bessel functions; Data analysis; Data manipulation; Easy and effective programming in English; List of instructions; Matrix operations; Numerical analysis; *TN552*. SP305-3.
- One and two electron excitation; Resonance profiles; Synchrotron light source; 20-180 eV; Autoionization; Far ultraviolet absorption spectra; He through Xe; *9915*. SP305-1.
- One- and two-electron 2S states; Stark quenching; Time-dependent theory; Lifetimes; *12859*. SP305-4.
- One dimension; Peierls transition; Tetrathiofulvalinium-tetracyanoquinodimethan (TTF-TCHNQ); Charge transfer salts; Electronic energy band structure; Electron-phonon coupling; *14359*. SP305-6.
- One dimensional flow; Single phase fluid; Thermodynamics; Transposed critical line; Helium; Hydrodynamics; *15047*. SP305-7.
- One ppm of oxygen and nitrogen in steel; Research Associate Program; Simultaneous determination of oxygen and nitrogen; Standard Reference Material for oxygen; Inert gas fusion; *SP260-26*. SP305-3.
- One-dimensional; Plastic-wave propagation; Rate-independent theory; Tapered rods; Aluminum; Experiments; Longitudinal impact; Numerical solution; *J.72C No. 4, 231-241 (1968)*. SP305-1.
- One-dimensional collisions; Oscillator force constants; Potential values; Transition probabilities vs. energy values; Translational-vibrational energy transfer; Atom-diatom transitions; Data tables; Distorted wave calculations; *NBS-OSRDB-70-3 (AD705110)*. SP305-3.
- One-dimensional Dirac equation; Impurity states; Kronig-Penney model; *SP323*, pp. 477-480. SP305-4.
- One-dimensional transport calculation; Stainless steel; Time-of-flight; Activation method; Group constants; Iron; Neutron spectrum; *SP425*, pp. 184-188. SP305-7.
- One-electron potentials; Pseudopotentials; Band structure; Cohesion; Core-core interactions; Electron density; Interatomic; *SP317*, pp. 179-200. SP305-3.
- One-electron propagator; Perturbation expansion; Sum rule; Density of states; Disordered alloys; *SP323*, pp. 453-463. SP305-4.
- One-electron propagator; Perturbation expansion; Sum rule; Density of states; Disordered alloys; *J.74A No. 2, 281-291 (1970)*. SP305-2.
- One-electron theory; Classical path; Impact theory; Line broadening theory; *J.73A No. 4, 405-420 (1969)*. SP305-1.
- One-electron theory; Stark broadening; Unified theory; Classical path; Hydrogen lines; Line wings; *12084*. SP305-3.
- One-electron theory; Stark broadening; Unified theory; Classical path; Hydrogen lines; Line wings; *Monogr. 116*. SP305-2.
- One-pan; Short arm; Two-knife; Arrestment; Balance; Beam; Buoyant; Case; Constant-load; Equilibrium; Knife; *J.76C Nos. 1 and 2, 1-10 (1972)*. SP305-4.
- One-particle Green function; Oscillator strengths; Quasi particle density of states; X-ray emission and absorption; Density of states; Interacting electrons; *SP323*, pp. 233-247. SP305-4.
- One-particle Green function; Oscillator strengths; Quasi particle density of states; X-ray emission and absorption; Density of states; Interacting electrons; *J.74A No. 3, 417-431 (1970)*. SP305-2.
- One-port parameters; Six-port junction; Application of six-port junction concept; Automated measurements; Broadband measurements; Microwave measurements; Microwave power measurements; *16501*. SP305-8.
- One-way; Concrete; Floor and roof; Forms joist; *PS16-69*. SP305-2.
- One-way time transfer; Satellite timing; Synchronous satellite; Clock synchronization; *NBSIR 73-348*. SP305-6.
- ONF<sub>3</sub>; Raman spectroscopy; Thermodynamic properties; Vibrational analysis; Gas; *14009*. SP305-6.
- ONF<sub>3</sub>; Vacuum ultraviolet; Bond dissociation energies; Heats of formation; Ionization energies; Mass spectra; NF<sub>3</sub>; *1128*. SP305-2.
- Onium salts; Polar solvents; Pollutants; Quaternization; All halides; Antimony; Arsenic; Environment; Kinetics; Methylation; Nucleophilic reactivity; *166284*. SP305-8.
- On-line; CAMAC; Disc; Minicomputer; Modular; Multiparameter; *SP425*, pp. 97-98. SP305-7.
- On-line; Computer; Data handling; Instrumentation; Nuclear; *9600*. SP305-1.
- On-line; Programs; SDS 920; Digital computer; Experimental; Modular; Nuclear data; *10138*. SP305-1.
- On-line; Pulse-height-distribution; Spectra; Computer; Gamma ray; Germanium-detector; *10725*. SP305-1.
- On-line analysis; Quantitative electron probe microanalysis; Scanning electron microscopy; SRM-480; Empirical method; Minicomputers; *15248*. SP305-7.
- On-line computer; Program Selector Board; Data handling system; Interruptable computer; Neutron time-of-flight; Neutron total cross section; *TN515*. SP305-2.
- On-line computer; Pulse shape discrimination; Tropospheric mixing; Ar-37; Atmospheric radioactivity; Cosmic-ray relations; Exponential distribution; Low-level counting; Noble gas separation; *15744*. SP305-8.
- On-line computer systems; Radiative tails; Resolution; Spectrometer design; Background; Current monitoring; Detectors; Electron scattering; Experimental techniques; Line shape fitting; *TN523*. SP305-2.
- On-line computers; Recognition techniques; Review; Statistical Transforms; Chemical analysis; Curve fitting; Distribution functions; Experiment planning and optimization; Measurement process; *14294*. SP305-6.
- On-line correction; Quantitative microanalysis; Electron probe; Mini-computer; *TN796*. SP305-5.
- On-line data; Reference data service; Standard reference data; Data files; Data network; Data on-line; International data service; *15266*. SP305-7.
- On-line information retrieval systems; Use statistics; Evaluation; National Bureau of Standards; *15378*. SP305-7.
- On-line print; System 360; Assembly language; Card punch; Card read; Input/output; *TN433*. SP305-1.
- Online services; Online systems; Bibliographic information systems; Computer technology; Information storage and retrieval; Interactive systems; *16548*. SP305-8.
- On-line simulation of temperature controls; Thermal response factors; *16220*. SP305-8.
- On-line support; User needs; User support; Computers; Consultation; Documentation; Information support; *Network 7802*. SP305-5.
- On-line system reactive typewriters; Retrieval; Time-sharing computers; User procedures; Automated networks; Automated systems; Data formats; Distributed data base; Information networks; Information system standards; *10575*. SP305-1.
- Online systems; Bibliographic information systems; Computer technology; Information storage and retrieval; Interactive systems; Online services; *16548*. SP305-8.
- On-line systems; Output modes; Photocomposition typesetting; Storage hierarchies; Time sharing; Computer-assisted-instruction; Information display; Information recording; Machine-aided design; Memory allocation; Microfilm; *Monogr. 113, Volume 2*. SP305-2.
- On-line systems; Programming; Simulation; Storage; Information recording; Debugging; Holography; Information content; Input-output; Integrated circuits; Lasers; Memory systems; Multiprocessing; Networks; *Monogr. 113, Volume 3*. SP305-2.



nsager model; Partition function; Phase transition; Weiss model; Density of states; Ising model; *SP323*, pp. 381-384. **SP305-4.**  
 nsager reciprocal relation; Thermodynamic theory; Binary alloys; Diffusion; Diffusion coefficients; Kinetic theory; *10580*. **SP305-1.**  
 n-site construction; Prefabricated construction; Standards; State-local relationship; State regulations; Building codes; Factory-built housing; Industrialized building; Inspection; Manufactured building; Model codes; Model documents; *NCSCBS; NBS-GCR-74-27*. **SP305-8.**  
 n-site power generation system; Petroleum problems; Central plant system; Coal gasification; Heat pump system; Heat recovery and conservation system; Nuclear fuel; *BS566*, pp. 5-8. **SP305-7.**  
 amp; Operational rectifier; Phase-sensitive detector; Signal extraction ratio; Operational amplifier; *12412*. **SP305-4.**  
 acuity, continuous; Solar photosphere; Solar ultraviolet spectrum;  $H_2^+$ ; *12246*. **SP305-3.**  
 al glass; Radiant flux; Reflectance standards; Standards calibration; Barium sulfate; Diffuse reflectance spectra; Magnesium oxide; *J. Res.* **80A** No. 4, 585-595 (1976). **SP305-8.**  
 alence; X-transitions; Critical phenomena; Critical point; Second order phase transition; Singularities; Pade approximate fluctuations; *M273*. **SP305.**  
 amp; Phase-sensitive detector; Power-factor; Quadrature; Three-voltmeter method; Wattmeter; *12848*. **SP305-4.**  
 aque pigments; Photodegradation; Poly(vinyl chloride); Rigid plastic; Ultraviolet absorbers; Color reactions; *10137*. **SP305-1.**  
 en channel flow measurement; Palmer-Bowles flumes; Sewage flow measurement; Flow measurement, water; Flumes, measuring; *15738*. **SP305-8.**  
 en channel flow measurement; Pipe flow measurement; Standards, flow measurement; Flow measurement, water; Instruments, flow measurement; *SP421*. **SP305-7.**  
 en circuit reflection coefficient; Short circuit; Standards; Automatic; Broad frequency; Equations; Network analyzers; *16510*. **SP305-8.**  
 en circuit termination; Coaxial line; Lower bound; *14112*. **SP305-6.**  
 en circuited coaxial line; Rayleigh-Ritz variational method; Solid center conductor; Discontinuity capacitance; *11096*. **SP305-2.**  
 en dating; Procedures; Technical requirements; Technology; Universal product coding; Weights and measures; Administration; Automated checkstand systems; Conference; Consumers; Laws and regulations; Metrication; *SP391*. **SP305-6.**  
 en heart surgery; Pediatric surgery; Pyrogens; Sweating; Temperature, central body; Thermocouple disconnect; Thermoelectric thermometry; Thermometer; Vasodilation; Warm sensitive neurons; Anesthesiology; Brain temperature; Carotid artery; *13631*. **SP305-5.**  
 en loop breathing apparatus; Protective clothing; Smoke inhalation; Standards; Breathing apparatus; Closed loop breathing apparatus; Equipment design; Fire fighters; Fire fighting; Fire fighting equipment; Fire gases; *NBS-GCR-73-0*. **SP305-8.**  
 en neighborhood assignments; Stratifiable spaces; U-linked sequences; Co-convergent; Contra-convergent; Nagata spaces; *J79B Nos. 1 and 2*, 63-64 (1975). **SP305-7.**  
 en neighborhood assignments; Stratifiable spaces; U-linked sequences; Co-convergent; Contra-convergent; Nagata spaces; *J79B Nos. 3 and 4*, 103-105 (1975). **SP305-7.**  
 en pores; Steady and unsteady flow; Tests of absorption, permeability and capillary elevation; Capillary elevation (head); Coefficient of permeability; Kinetics of deterioration; *SP361, Vol. 1*, pp. 653-668. **SP305-4.**  
 Open positive convex cone; Polar decomposition; Positive definite; Spectrum; Square matrix; Cramped; Field of values; *J78B No. 1*, 7-10 (1974). **SP305-6.**  
 Open symposium; General assembly; *16582*. **SP305-8.**  
 Open system; Performance requirement; Scratch resistance; Testing; Water-spray repelling; Components; Dirt repelling; Evaluation; Feed-back; *SP361, Vol. 1*, pp. 529-534. **SP305-4.**  
 Open system; Potentials of mean force; Activity derivatives; Closed system; Correlation functions; Entropy; *12373*. **SP305-3.**  
 "Open" systems; Performance specifications; Building process; Building systems; "closed" systems; Management; Office buildings; *SP361, Vol. 1*, pp. 357-374. **SP305-4.**  
 Open systems; Thermal transport; Equations of motion; Nonequilibrium statistical mechanics; *12197*. **SP305-3.**  
 Open-channel flow; Overfalls; Hydraulic measurements; *13301*. **SP305-5.**  
 Open-channel flow; Standards; Calibration; Current meters (fluids); Hydraulics; Measurement; *12358*. **SP305-3.**  
 Openings; Serviceability; Strength; Structural performance; Tests; Analysis; Concrete beams; Concrete plates; Ducts; *SP361, Vol. 1*, pp. 545-556. **SP305-4.**  
 Openings; Shear strength; Tests; Web; Beams; Design criteria; Joists; *14663*. **SP305-6.**  
 Operating; Procurement; Services; Users-Productors; Creative-partnership; Management; *SP383*. **SP305-5.**  
 Operating costs; People costs; Single glass; Building economics; Capital costs; Human comfort; Human performance; Insulated glass; *SP361, Vol. 1*, pp. 149-159. **SP305-4.**  
 Operating system; Overhead; Resource allocation; Simulator; Strategies; Workload; FORTRAN IV; *16062*. **SP305-8.**  
 Operating system; Real-time; Data acquisition; File system; Laboratory automation; Multiprogramming; *NBSIR 75-713*. **SP305-7.**  
 Operating system; Resource allocation strategies; Simulator; Computer system; FORTRAN IV; *14623*. **SP305-6.**  
 Operating system security; Security flaws; Software security; Taxonomy of integrity flaws; UNIVAC 1100 Series OS; BBN-TENEX; IBM OS/360; *NBSIR 76-1041*. **SP305-8.**  
 Operating system structures; Protection; Reliable software; Reliability; Security; Small protection domains; Types; Capability; Capability-based addressing; Computer security; Extended-type objects; *TN919*. **SP305-8.**  
 Operating systems; Automated computer access; Computer networking; Macro processor; Minicomputer-based systems; *15544*. **SP305-7.**  
 Operating systems; Performance objectives; Computer architecture; Computer performance evaluation; Installation management; Measurement; Modeling; Monitoring; *SP406*. **SP305-7.**  
 Operation; Classification; Data; Distribution symposium; Documents; Evaluation; Information systems; Management; *11604*. **SP305-2.**  
 Operation; Precision; Rectifier; Transfer; AC; DC; *J73C Nos. 3 and 4*, 47-55 (1969). **SP305-1.**  
 Operation; Status; Future plans; National Standard Reference Data System; Objectives; *9283*. **SP305.**  
 Operation; Technical information center; Bibliography service; Cryogenics; Current awareness; Data center; Data evaluation; Development; Information retrieval; *11006*. **SP305-2.**  
 Operation BREAKTHROUGH; Acoustics; Noise isolation class; *13414*. **SP305-5.**  
 Operation BREAKTHROUGH; Acoustics; Noise criterion curves; Noise isolation class; *13415*. **SP305-5.**  
 Operation BREAKTHROUGH; Acoustics; Field impact insulation class; Noise criterion curve; Noise isolation class; *13455*. **SP305-5.**  
 Operation BREAKTHROUGH; Fire endurance; Fire test; Glass fiber-reinforced plastic; Housing systems; Interdwelling wall; *13409*. **SP305-5.**

- Operation BREAKTHROUGH; Fire endurance; Fire test; Flame-through failure of walls; Housing systems; Interdwell wall; 13410. SP305-5.
- Operation BREAKTHROUGH; Paper honeycomb; Roof/ceiling assembly; Structural sandwich panel; Exterior wall; Fire endurance; Fire test; Housing systems; 13394. SP305-5.
- Operation BREAKTHROUGH; Paper honeycomb; Structural panel; Fire endurance; Fire test; Flame penetration; Floor assembly; Housing systems; 13405. SP305-5.
- Operation BREAKTHROUGH; Paper honeycomb; Structural panel; Fire endurance; Fire test; Flame penetration; Glass reinforced plastic; Housing systems; Interdwell wall; Modular construction; 13407. SP305-5.
- Operation BREAKTHROUGH; Paper honeycomb; Roof/ceiling assembly; Structural panel; Fire endurance; Fire test; Flame-through failure, structural panel; Glass-fabric reinforced plastic; Housing systems; 13408. SP305-5.
- Operation BREAKTHROUGH; Paper honeycomb; Performance criteria; Structural sandwich; Accelerated aging; Adhesives; Bonded structures; Durability; Glass fiber reinforced plastics; Housing systems; SP361, Vol. 1, pp. 761-775. SP305-4.
- Operation BREAKTHROUGH; Paper honeycomb; Structural sandwich; Sustained load; Accelerated aging; Adhesive bond; Ductility; Flexural shear; Housing systems; Local buckling; Material variability; Moisture conditioning; B5551. SP305-6.
- Operation BREAKTHROUGH; Performance criteria; Plywood subflooring; Subflooring; Underlayment; Wood-frame construction; Concentrated load capacity; Evaluation criteria; Floors; Hardboard; Load capacity; 13388. SP305-5.
- Operation BREAKTHROUGH; Performance tests; Precast concrete; Structural design; Building system; Column connection; Concrete triaxial strength; Ductility; Neoprene bearing pad; 13401. SP305-5.
- Operation BREAKTHROUGH; Performance; Performance criteria; Department of Housing and Urban Development; Housing; Industrialized housing; Innovative housing; National Academies of Sciences and Engineering; SP361, Vol. 1, pp. 255-260. SP305-4.
- Operation BREAKTHROUGH; PERFORMANCE criteria; Performance evaluation; Certification; Guide criteria; Innovative housing; 14662. SP305-6.
- Operation Breakthrough; Performance test; Precast concrete; Structural design; Building system; Column connection; Concrete triaxial strength; Ductility; Neoprene bearing pad; TN811. SP305-6.
- Operation Breakthrough; Performance evaluation; Architectural psychology; Dwelling unit; Federal building research; Industrialized housing; Occupant behavior; 15190. SP305-7.
- Operation BREAKTHROUGH; Plastic pipe; PVC; Smoke; Toxic gases; Vent; Waste; ABS; Cast iron; Copper; Drain; Fire endurance; Fire spread; Fire test; NBSIR 74-449. SP305-7.
- Operation BREAKTHROUGH; Plywood; Subfloors; Underlayment; Wood; Wood joists; Concentrated loads; Deflection; Floor hardboard; Housing; Impact energy; 13472. SP305-5.
- Operation BREAKTHROUGH; Plywood; Subfloors; Underlayment; Wood; Wood joists; Concentrated load; Deflection; Floor; Hardboard; Housing; Impact energy; B5552. SP305-6.
- Operation BREAKTHROUGH; Polyurethane foam; Sandwich construction; Wall system; Accelerated aging; Compression; Environmental conditions; Flexure; Housing system; 13386. SP305-5.
- Operation BREAKTHROUGH; Polyurethane foam; Toxic gases; Fire endurance; Fire test; Housing systems; Interdwell wall; Load failure; Modular construction; 13411. SP305-5.
- Operation BREAKTHROUGH; Precast concrete; Concrete panels; Connections; Ductility; Floor diaphragms; Housing systems; Insert connectors; 13390. SP305-5.
- Operation BREAKTHROUGH; Precipitation; Solar radiation; Temperature; Wind direction; Wind speed; Air contamination; Design conditions; Earthquake risk; Evaluation; Ground temperature; Humidity; Noise level; 13398. SP305-5.
- Operation BREAKTHROUGH; Pressurized stairwell; Quantitative experiment; Smoke control; Smoke simulation; Analysis; Basic correlation formulas; Computer calculations; High-rise building fire; 13795. SP305-5.
- Operation BREAKTHROUGH; Protective clothing; Bibliographies; Building fires; Construction materials; Fire departments; Fire tests; Flame spread test; Flammability test; Flammable fabrics; NBSIR 74-511. SP305-6.
- Operation BREAKTHROUGH; Protective clothing; Bibliographies; Building fires; Construction materials; Fire departments; Fire tests; Flame spread test; Flammability test; Flammable fabrics; NBSIR 75-736. SP305-7.
- Operation BREAKTHROUGH; Racking; Reinforced plastic; Reinforced polyester; Sustained loading; Tensile shear; Adhesive bond; Aging; Composites; Compression; Flexure; Glass fiber; Housing system; Innovations; Laminates; 13473. SP305-5.
- Operation BREAKTHROUGH; Reentrant corner; Exterior wall; Fire spread; Fire test; Ignition; 13791. SP305-5.
- Operation BREAKTHROUGH; Single family attached housing; Steel tube column; Fire endurance; Fire test; Housing system; Multifamily housing; 13406. SP305-5.
- Operation BREAKTHROUGH; Single family residence; Smoke scale; Thermal resistance; Wood floor; Wood joist; Fire endurance; Fire test; Flame through; Full scale; Housing; 13790. SP305-5.
- Operation BREAKTHROUGH; Single wall; Fire endurance; Fire test; Housing systems; Interdwell wall; 13396. SP305-5.
- Operation BREAKTHROUGH; Smoke generation; Wall and ceiling; Carpets; Flame spread; Kitchen cabinets; 1360. SP305-5.
- Operation BREAKTHROUGH; Steel framing; Steel joist floor; Fire test; Floor assembly; Floor-ceiling assembly; Housing systems; Modular construction; 13397. SP305-5.
- Operation BREAKTHROUGH; Steel framing; Fire endurance; Fire tests; Housing systems; Modular construction; 1341. SP305-5.
- Operation BREAKTHROUGH; U-value; Building classification; Building thermal mass; Building thermal performance; Building thermal time constant; Housing systems; Industrialized housing; Mass per unit area; NBSIR 75-678. SP305-8.
- Operation of communication systems; Operation of electric supply systems; Public utility safety; Safety work rules; Communication industry safety; Electrical safety; 14670. SP305-6.
- Operation of electrical supply systems; Public utility safety; Safety work rules; Communication industry safety; Electric safety; Operation of communication systems; 14670. SP305-6.
- Operational amplifier; Op amp; Operational rectifier; Phase sensitive detector; Signal extraction ratio; 12412. SP305-4.
- Operational amplifier; Phase angle; Resistance; Transform ratio-arm; Audio-frequency; Bridge; Four-terminal resistance; High current; 14877. SP305-7.
- Operational amplifier; Pulses; Radiation; Safety; X-ray generators; X rays; Calibration; Electrical measurements; Electronics; Frequency response; High voltage; Kerr effect; NBSIR 75-775. SP305-8.
- Operational amplifiers; Electro-optical coupling; High voltage measurements; Light emitting diodes; 12590. SP305-4.
- Operational amplifiers; Resistance bridge; Resistance thermometry; Temperature measurement; Automatic phase balance; Bridge; Multistage transformers; J74C Nos. 1 and 14-17 (1970). SP305-2.

operational amplifiers; Thermal noise; Low-frequency detector; Noise power; Noise temperature; 11216. **SP305-2.**

operational amplifiers; Ultra low frequency; Bridge; Dielectrics; Dielectric measurements; Dielectric phenomena; Electrical measurements; Low frequency; Measurements; 10649. **SP305-1.**

operational amplifiers; Voltage gain; Closed-loop gain; 10399. **SP305-1.**

operational limits; Stagnation pressure; Arc currents; Arc heaters; Constricted arc; Enthalpy; *SP336*, pp. 879-892. **SP305-3.**

operational readiness; Performance monitoring; Testing; Data acquisition; Data dissemination; Data processing; Maintenance; *SP336*, pp. 549-568. **SP305-3.**

operational rectifier; Phase-sensitive detector; Signal extraction ratio; Operational amplifier; Op amp; 12412. **SP305-4.**

operational stack; Pop-up; Polish notation; Push-down; Radioactivity and isotopic calculations; Recursion; Statistical calculations; Instruction list; Iteration; Memory register; 13740. **SP305-5.**

operations; Physical determinism; Physical environment; Activities; Communication; Courthouse; Human performance; Institutional performance; Judicial system; Mutual adaptation; Objectives; *SP361*, Vol. 1, pp. 83-91. **SP305-4.**

operations research; Algorithm; Graph; Matroid; Network; *J. Res.* **80B** No. 3, 337-342 (1976). **SP305-8.**

operations research; Linear programs; Mathematical models; *J.72B* No. 4, 263-271 (1968). **SP305-1.**

operations research; Optimization; Algorithms; Combinatorics; Mathematics; Matroids; Networks; 9314. **SP305.**

operations research; Probability distribution; Linear programs; Mathematical models; Minimax estimation; *J.76B* Nos. 1 and 2, 1-38 (1972). **SP305-4.**

operations research; Probability distribution; Linear programs; Mathematical models; Minimax estimation; *J.73B* No. 3, 225-230 (1969). **SP305-1.**

operations research; Probability distribution; Linear programs; Mathematical models; Minimax estimation; *J.73B* No. 3, 231-239 (1969). **SP305-1.**

operations research; Quantitative analysis; Management; Decision-making; Education; *TN414*. **SP305.**

operations research; Quantitative analysis; Decision-making; Education; Management; 10793. **SP305-1.**

operations research; Resource allocation; Simulation; Systems analysis; Alexandria; Fire department; Location; *TN782*. **SP305-6.**

operations research; Simulation techniques; Systems analysis; Urban problems; Accounting models; City management; Facility location; 11445. **SP305-2.**

operations research; Systems analysis; Conference proceedings; Government; *M294*. **SP305.**

operations research; Systems analysis; Management science; Mathematical models; Numerical analysis; 15607. **SP305-7.**

operations research; Systems analysis; Urban problems; 16119. **SP305-8.**

operations research; Systems engineering; Decisions; Gaming; Government; Management; 10532. **SP305-1.**

operations research; Thermal burn hazards; Burn hazards; Household appliances; Fault-tree diagrams; Generic safety standards; Household appliances; *NBSIR* 76-1097. **SP305-8.**

operations research/systems analysis studies; OR users and producers; Planning; Conference proceedings; Contract research; Federal government; Information exchange; *NBS*; *SP347*. **SP305-3.**

operations research—NS; Management need; *NBSIR* 76-1096. **SP305-8.**

operative dentistry; Polishing instruments; Surface finish; Composite restorative materials; Finishing; 12308. **SP305-3.**

Operative dentistry; Reinforcements; Clinical evaluation; Clinical research; Composite restorations; Dental restorations; Dentistry; Monomers; 13854. **SP305-6.**

Operative dentistry; Reinforcements; Clinical evaluation; Clinical research; Composite restorations; Dental restorations; Dentistry; Monomers; 14058. **SP305-6.**

Operator identities; Parameter differentiation; Quantum statistics; Similarity transformations; Weyl prescription; Baker-Campbell-Hausdorff formula; Density matrix; Differential equations; Expansions; Exponential operators; Harmonic oscillator; 10130. **SP305-1.**

Operators; Approximation theories; Functional analysis; Hilbert and Banach spaces; Iterative methods; Numerical analysis; 9974. **SP305-1.**

Operators; Semigroups; Stability theory; Contractions; Functional analysis; *J.74B* No. 4, 311-319 (1970). **SP305-2.**

Ophthalmic lens; Proof testing; Research associate program; Sampling test; Drop ball test; Impact resistance; *NBSIR* 76-996. **SP305-8.**

Ophthalmic lens; Quasi-static theory; Strain gage measurements; Drop-ball test; Impact; Lens; 16310. **SP305-8.**

Ophthalmic lenses; Shape; Drop-ball test; Edge; Fracture; Impact; 16311. **SP305-8.**

Ophthalmic lenses; Stress distributions; Fracture; Glass; Impact; 15769. **SP305-8.**

Opinion survey; Brainstorming; Cybernetic technique; Data collection; Group dynamics; Interpersonal relationships; Management research; 12364. **SP305-3.**

Opinion survey; Portable circular saws; Power saws; Radial arm saws; Safety; Table saws; Accident research; Consumer products; Injury data; *NBSIR* 75-748. **SP305-7.**

Opponent color theory; Surround color; Three components color theory; Chromatic induction; Color; Contrast; Crispness; 9411. **SP305.**

Opponent-colors theory; Protanopia; Three-components theory of color vision; Tritanopia; Chromatic adaptation; Color blindness; Color-matching functions; Color vision; Deuteranopia; 9819. **SP305-1.**

Opposed flow diffusion flame; Oxygen index; Fire retardant mechanisms; Fire retardant polymers; Fire retardants; Mass transfer number; *NBS-GCR-75-40*. **SP305-8.**

Optical; Biferrocene; Delocalization; Intramolecular exchange; Magnetic susceptibility; Mixed valence; Mössbauer spectra; 16049. **SP305-8.**

Optical; Defocusing; Image space off-axis; Line scanner; 16288. **SP305-8.**

Optical; Oscilloscope; Photoconductor; Picosecond; Sampling; Sampling oscilloscope; Strobe; GaAs; Laser; 15835. **SP305-8.**

Optical; Photoelectric; Precision; Scanning; Stability; Standard; Wavelength; Fringe; Interferometer; Laser; 9942. **SP305-1.**

Optical; Photoelectric pyrometer; Radiance sources; Standards; Temperature; Blackbody; International Practical Temperature Scale; 9347. **SP305.**

Optical; Piezo-optical; Semiconductor; Silicon; Strontium titanate; Modulation technique; 9708. **SP305-1.**

Optical; Planck; Pyrometry; Radiance; Rayleigh; Stefan; Temperature; Wien; Boltzmann; Draper; Jeans; Kirchhoff; 9788. **SP305-1.**

Optical; Promethium 147; Electronic structure; Energy levels; Hollow cathode; Hyperfine structure; Interferometer; Nuclear moments; 10006. **SP305-1.**

Optical; Rate constants; Stratospheric chemistry; Absorption cross sections; Atmospheric chemistry; Chemical kinetics; Chlorine; Chlorine dioxide; Chlorine monoxide; Data evaluation; Gas phase; *NBSIR* 74-516. **SP305-6.**

Optical; Reflectance; Roughness; Scattering theory; Absorption; Alumina; Ceramic; Emissivity; Emittance; 10016. **SP305-1.**

- Optical; Refractive index; Shadowgraph; Homogeneity; Index gradient; Infrared; Interferometer; Laser; Measurement; 10023. SP305-1.
- Optical; Standard reference materials; Thermophysical properties symposium; Waste heat; Computer; Consumer; Drugs; Electrical pulses; Environmental standards; Friction measurement; Lead poisoning; LNG data; *DIM/NBS* 60, No. 9, 1-24 (1976). SP305-8.
- Optical absorbance; Reflectance; Scattering; Temperature dependence; Wavelength dependence; Multilayer dielectric mirror; *SP435*, pp. 230-235 (Apr. 1976). SP305-8.
- Optical absorption; Calorimetry; Laser; Laser materials; *15935*. SP305-8.
- Optical absorption; Critical phenomena; Diamond lattice;  $\text{DyPO}_4$ ; Ising system; Low temperature; Magnetic susceptibility; Metamagnetism; *12126*. SP305-3.
- Optical absorption; Critical points; Density of states; Dielectric constant; Modulated reflectance; *SP323*, pp. 77-89. SP305-4.
- Optical absorption; Critical points; Density of states; Dielectric constant; Modulated reflectance; *J74A No. 2*, 253-265 (1970). SP305-2.
- Optical absorption; Optical components; Optical scattering; Diamond single point turning; Interferometric control; Laser damage threshold; *SP462*, pp. 145-148 (Dec. 1976). SP305-8.
- Optical absorption; Optical scattering; Thin-film coating; Alkali halides; Antireflectance coating; Chalcogenide glasses; Infrared optical properties; Laser damage; *SP462*, pp. 214-220 (Dec. 1976). SP305-8.
- Optical absorption; Perovskite; Strontium titanate; Transition metal; Zero phonon line; Charge transfer, color centers; Crystal field;  $\text{D}^4$  ions; EPR; Iron 4+; *16201*. SP305-8.
- Optical absorption; Phonons; Selection rules; Strontium titanate; Brillouin zone; Critical points; Infrared; *11575*. SP305-2.
- Optical absorption; Polarized crystal spectra; Cobalt in manganese fluoride; Crystal spectra; Manganese fluoride; *9586*. SP305-1.
- Optical absorption; Potassium; Pseudopotential; Sodium; Interband transition theory; *11921*. SP305-3.
- Optical absorption; Radiative lifetimes; Calcium oxide; Color centres; F-centres; Luminescence; *11588*. SP305-2.
- Optical absorption;  $\text{RbCl}$ ;  $\text{SrCl}_2$ ; Double-doped KCl laser windows; Grain boundary stability; Hot forging; KCl; Mechanical strength; Microstructure; *SP462*, pp. 82-86 (Dec. 1976). SP305-8.
- Optical absorption; Reflectivity; Semiconductor; Bandgap; Band structure; Cadmium fluoride excitons; *13017*. SP305-4.
- Optical absorption; Shared holes;  $\text{SrTiO}_3$ ; Color centers; EPR; Hole centers; *11805*. SP305-3.
- Optical absorption; Surface roughness; Auger analysis; Diamond-turned metal mirrors; Laser damage; Light scattering; *SP462*, pp. 158-164 (Dec. 1976). SP305-8.
- Optical absorption; Water repellent coatings; Chemical lasers; Infrared materials; Laser windows; Multiphonon absorption; *SP462*, pp. 45-49 (Dec. 1976). SP305-8.
- Optical absorption; Xenon; Electronic density of states; Electron synchrotron light; Krypton; *SP323*, p. 279. SP305-4.
- Optical absorption coefficient; Radiation damage; Ruby; Concentration determination; Magnetic susceptibility; *12348*. SP305-3.
- Optical absorption coefficients; Photochemistry; Quantum yields; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reactions; *J. Phys. Chem. Ref. Data* 2, No. 2, 267-311 (1973). SP305-6.
- Optical absorption coefficients; Transparent materials; Barothermal; Gas pressure; Heat diffusion; Heat transfer; *15916*. SP305-8.
- Optical absorption cross section; Photochemistry; Quantum yield; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reaction; *13770*. SP305-5.
- Optical absorption cross sections; Photochemistry; Quantum yields; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Energy transfer; Gas phase; High temperature air chemistry; Ion-molecule reactions; *1359*. SP305-5.
- Optical absorption cross sections; Photochemistry; Quantum yield; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Energy transfer; Gas phase; High temperature air chemistry; Ion-molecule reactions; *NBSI 74-430*. SP305-6.
- Optical absorption mechanisms; Thermal damage; Absorptive limit; Extrinsic absorption; High-power laser window materials; Intrinsic absorption; *SP372*, pp. 165-171. SP305-4.
- Optical activity; Optical properties; Second harmonic generation; Selenium; Nonlinear optics; *12203*. SP305-3.
- Optical activity; Optical rotatory power; Verdet coefficient;  $\text{Bi}_3\text{Ga}_2\text{O}_{11}$ ;  $\text{Bi}_{12}\text{O}_{20}$ ;  $\text{Bi}_2\text{SiO}_{20}$ ;  $\text{Bi}_2\text{TiO}_{20}$ ;  $\text{Bi}_{12}\text{ZnO}_{22}$ ; Faraday effect; Modulator materials; *11807*. SP305-3.
- Optical absorption; Adsorbate atom; Dielectric function; Electronic states; *15092*. SP305-7.
- Optical anemometry; Optical birefringence; Optical excess tensor; Optical mapping of flow; Stress excess tensor; Two-dimensional flow; Flow with longitudinal gradient; Flow with transverse gradient; *15775*. SP305-8.
- Optical attenuation; Optical beam splitter; *Monogr. 14*. SP305-6.
- Optical attenuator; Photoelectric photometry; Radiometer calibration; Radiometry; Laser; Laser energy measurement; *TN418*. SP305.
- Optical attenuator; Photometry; Radiance; High-speed measurements; *J75C No. 2*, 85-88 (1971). SP305-3.
- Optical beam splitter; Optical attenuation; *Monogr. 14*. SP305-6.
- Optical birefringence; Optical excess tensor; Optical mapping of flow; Stress excess tensor; Two-dimensional flow; Flow with longitudinal gradient; Flow with transverse gradient; Optical anemometry; *15775*. SP305-8.
- Optical cell; Pulse radiolysis; Radiation dosimetry; Radiochromic dyes; Absorbed dose rate; Depth dose; Dose distribution; Dye films; Electron beams; *15277*. SP305-7.
- Optical character; Pattern recognition; Recognition; Researcher identification; Speech recognition; Standardization; U.S.S.R.; Western Europe; *11142*. SP305-2.
- Optical character recognition; Automatic pattern recognition; Handprinted characters; OCR standards; *12020*. SP305-3.
- Optical Character Recognition; Character sets; Character shape; Character sizes; Federal Information Processing Standards; Handprinting; *FIPS PUB 33*. SP305-6.
- Optical character recognition; Pattern recognition; Programming languages; Speech and speaker recognition; Artificial intelligence; Automatic abstracting; Automatic indexing; Computational linguistics; Computer centers; Documentation; Information storage; *TN462*. SP305-1.
- Optical character recognition; OCR applications; OCR as archival tool; OCR bibliography; OCR history and growth; OCR as a library tool; *10517*. SP305-1.
- Optical character recognition; Pattern recognition; Reading machines; Character recognition; Context research; Databases; *NBSIR 75-746*. SP305-7.
- Optical character recognition; Standards; Business forms; Computers; Data entry systems; Information processing systems



- Information processing standards; OCR; OCR forms; *FIPS PUB 40*. SP305-8.
- Optical Character Recognition; Upper case character; Alternate character; Centerline drawings; Character positioning; Character sets; Character shape; Character sizes; Font; Lower case character; *FIPS PUB 32*. SP305-6.
- Optical character recognition; USASI X3.1; Information processing standards; ISO DR966 OCR character sets National Bureau of Standards; OCR; OCR-A character set; OCR-B character set; OCR character sets; OCR forms; OCR paper; 11264. SP305-2.
- Optical coatings; Standing waves; Dielectric films; Electric fields; Laser damage; SP462, pp. 301-309 (Dec. 1976). SP305-8.
- Optical coatings; Thin film stress; Laser damage; Inhomogeneous films; Microscopy; SP372, pp. 135-164. SP305-4.
- Optical coatings; Thin films; Damage threshold; SP435, pp. 248-253 (Apr. 1976). SP305-8.
- Optical comparator; Thermal expansion; Controlled-gradient vacuum furnace; Elevated temperatures; J71C2-247, 85-91 (1967). SP305.
- Optical components; Optical scattering; Diamond single point turning; Interferometric control; Laser damage threshold; Optical absorption; SP462, pp. 145-148 (Dec. 1976). SP305-8.
- Optical components; Organic dye lasers; Wedged optical surfaces; Dye laser continua; High resolution; Interferometric effects; 13678. SP305-5.
- Optical constants; Oscillator; Strengths; Sum rules; Vacuum ultraviolet; Electron energy losses; Germanium;  $M_{IV,V}$  edge; 11367. SP305-2.
- Optical constants; Oxidation; Surface characterization; Ellipsometry; Field-emission; Low-energy-electron diffraction; Microscopy; 11397. SP305-2.
- Optical constants; Oxidation of tungsten; Ellipsometry; Low-energy-electron-diffraction; 11267. SP305-2.
- Optical constants; Oxide glasses; Phosphate glass; Silicate glasses; Fused silica; Infrared absorption; Infrared reflection; 9635. SP305-1.
- Optical constants; Passive; Pitting; Spectroscopy; Ellipsometry; Iron; Kinetics; 16216. SP305-8.
- Optical constants; Passive films; Spectra; Ellipsometry; Iron; 11373. SP305-2.
- Optical constants; Polarization of light; Reflectivity; Characterization surface; Ellipsometry; Interfacial studies; 13268. SP305-5.
- Optical constants; Polystyrene; Reflectance electron energy loss; Vacuum ultraviolet; 10784. SP305-1.
- Optical constants; Reflectance; Characteristic electron energy loss; Dielectric constant; Far ultraviolet; Germanium; 10180. SP305-1.
- Optical constants; Reflectance; Ultraviolet; Visible; Complex dielectric constant; Electron-energy-loss; Electronic band structure; Infrared; Least-squares fit to optical data; 11555. SP305-2.
- Optical constants; Reflectance; Ultraviolet; Antimony; Beryllium; Bismuth; Complex dielectric constant; Germanium; Least-squares fit to reflectance; 11556. SP305-2.
- Optical constants; Reflection coefficients; Thin films; Computer programs; Ellipsometry; Fortran program; Multiple films; TN479. SP305-1.
- Optical constants; Reflectivity; Electronic constant; Electronic density of states; Gold (Au); Gold-copper alloys (Au-Cu); Gold-iron alloys (Au-Fe); Gold-silver alloys (Au-Ag); SP323, pp. 545-549. SP305-4.
- Optical constants; Refractive index; Surface films; Complex refractive index; Ellipsometry; Mercury; 9509. SP305.
- Optical constants; Refractive index; Temperature coefficient of refractive index; Alkali halides; JPCRD 5, No. 2, 329-528 (1976). SP305-8.
- Optical constants; Ruthenium; Ellipsometry; 16467. SP305-8.
- Optical constants; Scattering; Absorption; Kubelka-Munk coefficients; 10518. SP305-1.
- Optical constants; Thin films vapor deposition; Ellipsometry; Epitaxy; Index of refraction; 11761. SP305-2.
- Optical constants; Titanium; Ellipsometry; 14129. SP305-6.
- Optical coupling; Pulse measurement; Automation; Electrical measurements; Electrooptics; High voltage measurement; Kerr effect; 15718. SP305-8.
- Optical cover assembly; Photometric measurements; Static tests; Airport approach and threshold lights; Glass prism; Impact tests; Light bases; NBSIR 75-647. SP305-7.
- Optical cuvettes; Spectrophotometric standards, clinical; Clinical spectrophotometry, accuracy, precision; SP378, pp. 125-134. SP305-5.
- Optical cuvettes; Spectrophotometric standards, clinical; Clinical spectrophotometry, accuracy, precision; J76A No. 5, 499-508 (1972). SP305-4.
- Optical density; Microdensitometry; Microphotometry; 15377. SP305-7.
- Optical density; Optical density standard; Calibration; Calibration test; Densitometer; Densitometry; NBSIR 75-682. SP305-7.
- Optical density; Order; Symbols; Units; Brigg; Logarithmic scales; Octave; 11057. SP305-2.
- Optical density; Propagation; Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; Absorptance; Contrast; Modulation; Notation; 9373. SP305.
- Optical density; Propagation; Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; Modulation; Notation; 15564. SP305-7.
- Optical density; Room furnishings; Smoke production; Smoke tests; Building materials; Fires; 16557. SP305-8.
- Optical density; Round robin; Smoke; Smoke density chamber; Statistical analysis; Building materials; Fire tests; Interlaboratory tests; TN708. SP305-3.
- Optical density; Steel; Terminal units; Aluminum; Ducts; Fire tests; Flexible connectors; Furnace pressures; Glass fiber; Heat ventilating and air conditioning systems; High-rise buildings; NBSIR 75-673. SP305-7.
- Optical density of states; Optical properties; Photoemission; Aluminum-insulator-palladium (Al-Pd); Augmented plane wave method (APW); Cesium; Copper; Direct transitions; Electronic density of states; Joint density of states; SP323, pp. 191-197. SP305-4.
- Optical density of states; Optical properties; Photoemission; Reflectivity; Tungsten (W); Zinc (Zn); Dielectric constant; Electronic density of states; Molybdenum (Mo); SP323, pp. 209-215. SP305-4.
- Optical density of states; PbTe; Ultraviolet photoemission; Copper; Copper nickel alloys; Density of states; GaAs; Ge; Nondirect transitions; SP323, pp. 139-157. SP305-4.
- Optical density of states; PbTe; Ultraviolet photoemission; Copper; Copper nickel alloys; Density of states; GaAs; Ge; Nondirect transitions; J74A No. 3, 397-415 (1970). SP305-2.
- Optical density of states; Semiconductor laser; Delta-function formulation of density of states; Green effect; k-conserving transitions; Landau levels; Laser semiconductor; Magneto-optical density of states; SP323, pp. 437-450. SP305-4.
- Optical density standard; Calibration; Calibration table; Densitometer; Densitometry; Optical density; NBSIR 75-682. SP305-7.
- Optical density-of-states; Photoconductivity; Photoemission; Polaron; Amorphous semiconductors; Anderson transition; Augmented plane wave method (APW); Chalcogenide glasses; Electronic density of states; Franck-Condon principle; SP323, pp. 493-503. SP305-4.
- Optical density-of-states; Photoemission; Aluminum (Al); Direct and nondirect transitions; Electronic density of states;

- Indium (In); Nondirect transitions; *SP323*, pp. 159-161. **SP305-4.**
- Optical density-of-states; Photoemission; Scandium (Sc); Silver (Ag); Titanium (Ti); Zirconium (Zr); Copper; Direct versus nondirect transitions; Electronic density of states; Gold (Au); Nondirect transitions; *SP323*, pp. 205-208. **SP305-4.**
- Optical depth; Oxygen II; Plasma; T-tube; Carbon II; Coulomb approximation; Electron density; Electron temperature; Equivalent electrons; Local thermal equilibrium; Oscillator strength (*f*-value); *9388*. **SP305-5.**
- Optical depth; Planetary nebulae; Radiative transfer; Velocity gradients; Balmer lines; Lyman continuum; Non-coherent scattering; *10755*. **SP305-1.**
- Optical design; Reflecting systems; Third order spherical aberration; Cassegrainian systems; Collimators; Cubic equations; *10088*. **SP305-1.**
- Optical design; Spectrophotometer; Systematic errors; Transmittance; Beam geometry; High accuracy; *13720*. **SP305-5.**
- Optical detection; Stimulated emission; CN; Microwave spectra; *10636*. **SP305-1.**
- Optical devices; Optics, precision; Reflector, cat's-eye; Retroreflector, cat's eye; *15202*. **SP305-7.**
- Optical distortion; Thermal fracture; Two-photon absorption; Nonlinear index of refraction; *SP435*, pp. 395-405 (Apr. 1976). **SP305-8.**
- Optical distortion; ZnSe; CO<sub>2</sub> laser radiation; CW laser damage; Infrared windows; KCl; NaCl; *SP414*, pp. 94-102. **SP305-6.**
- Optical electronics; Phase; Power; Pulsed quantities; Squids; Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM metrology; Field strength; Impedance; Laser parameters noise; *NBSIR 75-818*. **SP305-7.**
- Optical emission; X-ray spectrochemical analysis; Microanalytical techniques; Solids mass spectrometer; Electron probe microanalyzer; NBS white cast iron sample (SRM 1175); Stainless steel powder metallurgy compact; Optical metallography; *1260-12*. **SP305-1.**
- Optical engineering; Optical surfaces; Precision measurements; Refractive indices; Surface plate testing; Temperature measurement; Wavelength measurement; Double stars, measurement; Expansion measurements; Lens and mirror testing; *10599*. **SP305-1.**
- Optical equipment; Optical microscopes; Thickness; Thickness gages; Metal coatings; Micrometers; Microscopes; *12215*. **SP305-3.**
- Optical excess tensor; Optical mapping of flow; Stress excess tensor; Two-dimensional flow; Flow with longitudinal gradient; Flow with transverse gradient; Optical anemometry; Optical birefringence; *15775*. **SP305-8.**
- Optical excitation; Potential curves; Dissociation laser; Excimers; Excited state kinetics; *f*-values; Mercury molecules; New spectroscopic techniques; *Monogr. 143*. **SP305-7.**
- Optical fabrication; Chamfering; Continuous polishing; Grinding; Metal polishing; *SP435*, pp. 3-9 (Apr. 1976). **SP305-8.**
- Optical fabrication; Optical materials; Thin films; Avalanche ionization; Infrared windows; Laser damage; Metal mirrors; *SP462*. **SP305-8.**
- Optical fabrication; Optical scatter; Sputtering; Computer controlled process; Ion beam technology; Ionic polishing; *SP348*, pp. 189-192. **SP305-4.**
- Optical figure; Polishing; Scattered light; Surface absorption; Alkali-halide; KCl; Laser windows; *SP435*, pp. 20-28 (Apr. 1976). **SP305-8.**
- Optical figure; Pulsed laser; Thermal distortion; Laser windows and mirrors; *SP462*, pp. 11-24 (Dec. 1976). **SP305-8.**
- Optical figure; Scattered light; Diamond turning; Laser damage; Metal mirrors; Micromachining; *SP435*, pp. 49-56 (Apr. 1976). **SP305-8.**
- Optical figure; Scattered light; Infrared absorption; Laser damage; Laser mirror; Laser optical train; Laser window; Microroughness; *SP414*, pp. 23-30. **SP305-6.**
- Optical films; Phase shift; Polarized light; Reflection; Thin films; Transmission; Interferometry; Kösters prism; *14495*. **SP305-6.**
- Optical flat; Profile; Standard deviation; Uncertainty; Calibration; Diameter; Gravitational bending; Interferometry; Leas squares line; Linear model; *NBSIR 75-975*. **SP305-8.**
- Optical flying-spot scanner; Oxide films; Passivation overcoats; Photomask metrology; Pull test; Resistivity; Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; *SP400-19*. **SP305-8.**
- Optical flying-spot scanner; Passivation overcoats; Photoresist; Pull test; Resistivity; Scanning acoustic microscope; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; *SP400-25*. **SP305-8.**
- Optical frequencies; Velocity of light; Electrooptic modulation *10828*. **SP305-1.**
- Optical frequency; Optical heterodyne; Wavelength comparison; Interferometer; Laser; *15887*. **SP305-8.**
- Optical frequency; Single-standard time-length measurement system; Speed of light; *13119*. **SP305-5.**
- Optical frequency standards; Recoil effect; Relativity; CH<sub>3</sub> hyperfine structure; High resolution spectroscopy; Laser spectroscopy; Line shape; *16603*. **SP305-8.**
- Optical frequency standards; Saturated absorption; Spectroscopy; Laser; Methane; *13329*. **SP305-5.**
- Optical frequency standards; Saturated absorption spectroscopy; Lineshape theory; *16610*. **SP305-8.**
- Optical gain; Contrast transfer function; Distortion; Flare; Image intensifiers; Law enforcement; Light equivalent background; Light induced background; Night vision devices *13450*. **SP305-5.**
- Optical gain; Contrast transfer function; Distortion; Flare; Image intensifiers; Law enforcement; Light equivalent background; Light induced background; Night vision; *13967*. **SP305-6.**
- Optical gain; Contrast transfer function; Distortion; Flare; Image intensifier tubes; Infrared searchlights; Infrared viewers; Light equivalent background; Light induced background; *16238*. **SP305-8.**
- Optical gain; Night vision; Contrast transfer function; Flare; Image intensifiers; Law enforcement; Light equivalent background; Light induced; *16239*. **SP305-8.**
- Optical gain; Test methods; Contrast transfer function; Distortion; Flare; Light equivalent background; Light induced background; Night vision devices; *14551*. **SP305-6.**
- Optical glasses; Polarizer materials; Self-focusing; Absorption coefficient; Damage threshold; Electrostriction; Inclusion damage; Intrinsic damage; Kerr effect; Laser damage; Laser glasses; Laser rod materials; Modulator crystals; Nonlinear index of refraction; *NBSIR 74-458*. **SP305-6.**
- Optical glasses; Radiation effects; Refractive index; *9358*. **SP305-5.**
- Optical glasses; Self-focusing; Damage threshold; Electrostriction; Kerr-effect; Laser damage in glasses; *SP372*, pp. 92-97. **SP305-4.**
- Optical glasses; Self-focusing; Damage threshold; Electrostriction; Kerr-effect; Laser damage in glasses; *13016*. **SP305-4.**
- Optical glasses; Self-focusing; Thermal self-focusing; Yttrium aluminum garnet; Absorption coefficient; Electrostriction; Kerr effect; Laser damage; Nonlinear refractive index; *SP387*, pp. 26-35. **SP305-5.**
- Optical heterodyne; Velocity of light; Interferometry; Laser; *12454*. **SP305-4.**
- Optical heterodyne; Wavelength comparison; Interferometer; Laser; Optical frequency; *15887*. **SP305-8.**

Optical heterodyne measurement; Frequency-millimeter wave difference; Heterodyne measurement; Millimeter wave difference frequency; Neon laser's millimeter wave difference frequency; 9764. SP305-1.

Optical heterodyne spectroscopy; Quadrupole hyperfine interactions; Saturated absorption spectroscopy; High resolution spectroscopy; Methyl halides; 16407. SP305-8.

Optical homogeneity; Photoelasticity; Refractive index; Thermal conductivity; Thermo-optic properties; Transmittance; Chemical composition; Density; Glasses; Hardness; Laser; J75A No. 3, 163-174 (1971). SP305-3.

Optical homogeneity; Refractive index; Interferometer; J73C Nos. 1 and 2, 1-4 (1969). SP305-1.

Optical imaging; Partial coherence; Coherence measurement; Microdensitometry; 14545. SP305-6.

Optical imaging; Partial coherence; Coherence measurement; Microdensitometry; 15290. SP305-7.

Optical imaging; Piezoelectric effect; Aerosol instrument performance; Aerosol measuring instruments; Beta-ray absorption; Doppler shift; Electromobility; Laser light scattering; SP412. SP305-6.

Optical instruments; Stylus instruments; Surface texture measurement; Surface texture parameters; Vertical resolution; Electron microscopes; Horizontal resolution; 15613. SP305-7.

Optical interferometric measurements; Ultrasonic medicine; Ultrasonic radiation; SP456, pp. 285-297 (Nov. 1976). SP305-8.

Optical isolation; CdCr<sub>2</sub>S<sub>4</sub>; Chalcogenide spinel; Faraday effect; Ferromagnetic semiconductor; Hot-pressed; Infrared transmission; Laser induced damage; SP462, pp. 126-135 (Dec. 1976). SP305-8.

Optical magnetic and transport properties; Alkali halide crystal defect properties; Alkali halide dopants; Bibliography; Impurity centers; NBS-OSRDB-71-1 (COM-71-00248). SP305-3.

Optical mapping of flow; Stress excess tensor; Two-dimensional flow; Flow with longitudinal gradient; Flow with transverse gradient; Optical anemometry; Optical birefringence; Optical excess tensor; 15775. SP305-8.

Optical materials; Photoacoustic method; Absorption coefficients; Heat diffusion equations; Highly transparent solids; Hydrodynamic equations; 15971. SP305-8.

Optical materials; Physical property changes; Space environment; Information center; Interferometric measurements; SP336, pp. 949-959. SP305-3.

Optical materials; Refractive index; Dispersion; Fused silica; Infrared materials; 9190. SP305.

Optical materials; Thermal distortion; Interferometry; Laser windows; SP462, pp. 36-44 (Dec. 1976). SP305-8.

Optical materials; Thin films; Avalanche ionization; Infrared windows; Laser damage; Metal mirrors; Optical fabrication; SP462. SP305-8.

Optical memories; Reversible low power damage; Holographic measurements; Laser induced index change; SP372, pp. 15-26. SP305-4.

Optical metallography; Macroanalytical techniques; Optical emission; X-ray spectrochemical analysis; Microanalytical techniques; Solids mass spectrometer; Electron probe microanalyzer; NBS white cast iron sample (SRM 1175); M260-12. SP305.

Optical metallography; Sapphire whiskers; Al-10 percent Si alloy; Electron probe microanalyzer; Fiber composites; Matrix-whisker bonding; Ni coated sapphire whiskers; J72A No. 3, 269-272 (1968). SP305-1.

Optical metallography; Solids mass spectrometer; Standards of composition; Electron probe microanalyzer; Homogeneity—standards; NBS cartridge brass; NBS low-alloy steel; 10806. SP305-1.

Optical meter relay; Circuit; High voltage; Microamperes; Millivolts; 10251. SP305-1.

Optical microscope; Photomasks; Scanning electron microscope; Dimensional metrology; Integrated circuits; Line-width measurements; Microelectronics; 15864. SP305-8.

Optical microscopes; Thickness; Thickness gages; Metal coatings; Micrometers; Microscopes; Optical equipment; 12215. SP305-3.

Optical microscopy; Polychlorotrifluoroethylene; Solution crystallization; Crystal morphology; Crystallization; Electron microscopy; J78A No. 3, 363-373 (1974). SP305-6.

Optical microscopy; Polymer; Polyoxymethylene; Solution grown; Chain-folded; Crystal; Curved; Electron microscopy; J78A No. 2, 95-127 (1974). SP305-6.

Optical microscopy; Poly(4-methylpentene-1); Polymer; Solution-grown; Chain-folded; Crystal, curved; Electron microscopy; Lamellar; J76A No. 3, 225-252 (1972). SP305-4.

Optical mixing spectroscopy; Rayleigh scattering; Binary mixtures; Brillouin scattering; Diffusion coefficient; Light scattering; 11068. SP305-2.

Optical mixing spectroscopy; Review; Air pollution; Brillouin spectroscopy; Lasers; Light scattering; Macromolecules; 12361. SP305-3.

Optical mode scattering; Strontium titanate; Temperature dependence of mobility; Electron mobility; Ionized impurity scattering; 10210. SP305-1.

Optical model; Resonance cross section; Statistical model; Total cross section; Capture cross section; Elastic and inelastic scattering cross sections; Evaluation; Fission product; SP425, pp. 320-323. SP305-7.

Optical model; Rhodium-103; Fast neutrons; Inelastic scattering; Isomeric state; Level scheme; SP425, pp. 879-882. SP305-7.

Optical model; Total neutron cross section; Coupled channel calculations; Holmium-165; Nuclear collectivity; Nuclear Ramsauer effect; 13424. SP305-5.

Optical model; Total neutron cross section; Black nucleus; Coupled-channel calculations; Nuclear deformation effect; Nuclear orientation; Nuclear Ramsauer effect; <sup>187</sup>Ho nucleus; 10398. SP305-1.

Optical model; Van de Graaff; 14 MeV neutrons; <sup>187</sup>Ho; Black nucleus model; Cryogenic target; Coupled-channel calculation; Nuclear alignment; Nuclear deformation; 9362. SP305.

Optical model scattering; Calculations; Cross-section; Neutron; Nuclear cross-sections; Nucleus; 9747. SP305-1.

Optical Mossbauer spectrometer; Tandem Mossbauer spectrometer; Velocity calibration; Mossbauer; Spectroscopy; Standard; Differential chemical shift; Quadrupole splitting; Random error; Systematic error; Sodium nitroprusside; Iron compounds; M260-13. SP305.

Optical phonons; Polarizable ion model; Semicontinuum polaron model; CaF<sub>2</sub>; CaO; F center; Internal Stark effect; KCl; 12134. SP305-3.

Optical polishing; Scattering; Substrates; Surface roughness; Thin films; Far ultraviolet; 9812. SP305-1.

Optical potential; Predissociation; Quantum mechanics; Resonance scattering; Scattering theory; Unimolecular kinetics; Absolute rate theory; Association; Configuration interaction; 11401. SP305-2.

Optical potential; Quasi-particles; Fluctuations; Neutron strength functions; SP425, pp. 806-809. SP305-7.

Optical potential; R-matrix; Strength; Time-of-flight; Function; Mass number; Neutrons; 14014. SP305-6.

Optical power; Aluminum-silicone compound; GaAs lasers; Heat sink; 9467. SP305.

Optical power limiter; Photomultiplier tube; Saturation; Fluorescence; Light flux; 9654. SP305-1.

Optical probe; Surface plasma; Time resolved laser damage; Laser induced film damage; SP387, pp. 133-137. SP305-5.

Optical probe technique; Refractive index variation; Damage electron density; Electron density transient; Free electron ab-

- sorption; Laser induced surface damage; *SP435*, pp. 356-361 (Apr. 1976). **SP305-8.**
- Optical probe technique; Thin film; Time resolved damage; Adhesion effect; Laser induced damage; *SP435*, pp. 284-288 (Apr. 1976). **SP305-8.**
- Optical properties; AuZn; CsCl-type intermetallic compounds; Direct interband transitions; Electronic density of states; NiAl; *SP323*, pp. 19-25. **SP305-4.**
- Optical properties; Holography; Laser energy; Laser materials; Laser power; Laser radiometry; Laser standards; Laser transitions; Modulation of lasers; Near and far field patterns; *TN449*. **SP305-1.**
- Optical properties; Opto-elastic properties; Oxides; Ruby; Rutile; Titanium; Titanium dioxide; Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical properties; Chemical analysis; Chromium ions; Corundum; Crystal defects; *TN565*. **SP305-3.**
- Optical properties; Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Fracture; Glass; High temperature materials; *TN514*. **SP305-2.**
- Optical properties; Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Glass; High temperature materials; *TN531*. **SP305-2.**
- Optical properties; Parametric calculations; Complex dielectric constant; Energy-loss interpretation; Inelastic electron scattering; *11424*. **SP305-2.**
- Optical properties; Perovskite; Reflectivity; Strontium titanate; Absorption coefficient; Band structure; Electroluminescence; *10521*. **SP305-1.**
- Optical properties; Photoemission; Soft x-ray; Specific heat; Superconductivity; Transport properties; Tunneling; Band structure; Disordered systems; Electronic density of states; Ion neutralization; Knight shift; Magnetic susceptibility; *SP323*. **SP305-4.**
- Optical properties; Photoemission; Aluminum-insulator-palladium (Al-Pd); Augmented plane wave method (APW); Cesium; Copper; Direct transitions; Electronic density of states; Joint density of states; Nondirect transitions; *SP323*, pp. 191-197. **SP305-4.**
- Optical properties; Photoemission; Reflectivity; Tungsten (W); Zinc (Zn); Dielectric constant; Electronic density of states; Molybdenum (Mo); Optical density of states; *SP323*, pp. 209-215. **SP305-4.**
- Optical properties; Photon; Plasma frequency; Absorption cross section; Index of refraction; Nuclear matter; *J. Res. 80A* No. 1, 9-13 (1976). **SP305-8.**
- Optical properties; Planetary quarantine; Polymers; Shock force; Space simulation; Testing; Volatile products; Absorption; Condensation; Contamination control; Evaluation; Far infrared; Fluid dynamic force; Microorganisms; *SP336*, pp. 51-77. **SP305-3.**
- Optical properties; Plasmon; Pseudopotential; Quasi-particle; Satellite structure; Electronic density of states; Free-electron like metals; Interband absorption; *SP323*, pp. 125-127. **SP305-4.**
- Optical properties; Plastic films; Poly(ethylene terephthalate); Proton damage; Proton energy; Radiation effect; Radiation intensity; Recovery; Solubility; Space simulation; Temperature effect; Tests; Viscosity; Electron damage; *SP336*, pp. 323-344. **SP305-3.**
- Optical properties; Polarized luminescence; Symmetry; Transition metal ions; Chromium 3+; Crystal vacancies; Cubic crystals; Depolarization; Impurity compensation; Luminescence; Magnesium oxide; *MgO*; *16521*. **SP305-8.**
- Optical properties; Pseudopotential; Aluminum (Al); Dielectric constant; Electronic density of states; Interband transition; *SP323*, pp. 33-36. **SP305-4.**
- Optical properties; Pseudopotential; Random phase approximation; Tight-binding; Augmented plane wave method (APW); Electronic density of states; K-p method; LCAO; Lead telluride (PbTe); *SP323*, pp. 115-123. **SP305-4.**
- Optical properties; Reflectance; Stopping power; Beryllium; Far-ultraviolet; *11160*. **SP305-2.**
- Optical properties; Residual stress; Ceramics; Cracks; Dislocations; Electrical properties; Electro-optical; Ferrite; Machining; Magnetic properties; Mechanical properties; *SP348*, p. 343-352. **SP305-4.**
- Optical properties; Rough surfaces; Ellipsometry; Index of refraction; Light reflection; *11303*. **SP305-2.**
- Optical properties; Scattering; Electron energy loss; Germanium; Material structure; *15387*. **SP305-7.**
- Optical properties; Second harmonic generation; Selenium; Nonlinear optics; Optical activity; *12203*. **SP305-3.**
- Optical properties; Semiconductors; Zincblende structure; ZnTe; Electronic density of states; Gallium arsenide (GaAs); Indium antimony (InSb); Indium arsenide (InAs); Joint density of states; *SP323*, pp. 757-766. **SP305-4.**
- Optical properties; Silicon; Band gap; Band structure; Electronic structure; Energy bands; *15705*. **SP305-7.**
- Optical properties; Slater exchange; Vacuum ultraviolet reflectance spectra; Augmented plane wave method (APW); Electron density of states;  $\text{GeO}_2$ ; Indirect transition; *SP323*, pp. 111-113. **SP305-4.**
- Optical properties; Specific heat; Thermophysical properties; Transport properties; Tritium; Vapor pressure; Compilations; Deuterium; Electrical properties; Enthalpy; Entropy; Fixed points; Hydrogen; Mechanical properties; *TN64*. **SP305-5.**
- Optical properties; Sum rules; Characteristic electron energy loss; Far ultraviolet; Germanium; Kronig-Kramers dispersion relations; *9345*. **SP305.**
- Optical properties; Tolerances; Gloss; *15583*. **SP305-7.**
- Optical properties; Twinning; Unit cell dimensions; Cleavage; Compilation; Crystal; Crystal habit; Crystal space group; Crystal structure types; Density; Determination; Identification; Minerals; *15084*. **SP305-7.**
- Optical properties; Wavelength; Crystal; Microscopical determination; *10047*. **SP305-1.**
- Optical properties of liquids; Dielectric liquid; Electrical properties of liquids; Electro-optics; High voltage measurement; Kerr effect; Laser applications; Nitrobenzene; *13918*. **SP305-6.**
- Optical pulsars; Precision timing; Simultaneous reception; Synchronization; Time transfer; Accurate time dissemination; *12959*. **SP305-4.**
- Optical pulsars; Remote clock comparisons; Simultaneous reception; Time dissemination; Time stability; Time synchronization; Time transfer; TV color subcarrier; 60-power line; Atomic clock; Frequency calibration; Frequency stability; *12986*. **SP305-4.**
- Optical pulse; Oscilloscope; Photoconductor; Pulse measurements; Sampling; Laser; *16193*. **SP305-8.**
- Optical pumping; Geomagnetism; Magnetometer; *13101*. **SP305-5.**
- Optical pumping; Molecules; *13914*. **SP305-6.**
- Optical pumping; Polarization; Comets; Fluorescence; OH-cm radiation; *16513*. **SP305-8.**
- Optical pumping; Precision; Quartz crystal oscillators; Radio T/F dissemination; Rb frequency standards; Satellite T/F dissemination; Short-term stability; SI Units; TAI; Television T/F dissemination; Thallium beam standards; Time; Time dispersion; Time domain; *Monogr. 140*. **SP305-6.**



- Optical pumping; Radiative recombination; Ruby laser; Silicon; Stimulated emission; GaAs laser; Laser pulse shapes; Lifetime; 10133. SP305-1.
- Optical pumping; Radiowave spectrum; Comet; Fluorescence; OH; 14559. SP305-6.
- Optical pumping; Resonance fluorescence; Sodium; Atomic collisions; Atomic orientation; Collisional disorientation; 11252. SP305-2.
- Optical pumping; Resonance line; Rubidium oscillator; Solenoid; Absorption cell; Earth's magnetic field; Helmholtz coil; Magnetometer; 12396. SP305-4.
- Optical pumping; Rubidium; G-factor; Nuclear moment; 10309. SP305-1.
- Optical pumping; Sodium; Spin-exchange; Electron; 9275. SP305.
- Optical pumping of molecules; Vibrational relaxation; Carbon monoxide; CO<sub>2</sub> lasers; Combustion; 14188. SP305-6.
- Optical pyrometer; Platinum; Platinum-13 percent rhodium; Temperature; Thermocouple; Butane; Carbon monoxide; Catalysis; Combustion; Hydrogen; 14637. SP305-6.
- Optical pyrometer; Platinum resistance thermometer; Platinum-rhodium vs platinum thermocouples; Reference tables; Thermometric fixed points; Blackbodies; Calibrations; 13577. SP305-5.
- Optical pyrometer; Radiation thermometry; Standards; Temperature; Infrared pyrometer; International Practical Temperature Scale; 9343. SP305.
- Optical pyrometer; Pyrometry; Radiation thermometry; Temperature measurement; 9857. SP305-1.
- Optical pyrometry; Radiation heating; Vapor pressures; AlO<sub>3</sub>; Al<sub>2</sub>O<sub>3</sub>; Emissivity; Evaporation coefficient; Langmuir vaporization; 16540. SP305-8.
- Optical pyrometry; Radiometry; Blackbody; TN483. SP305-1.
- Optical quantities; Surface properties; Thermal quantities; Time and frequency; Acoustics; Atomic properties; Economics; Electrical quantities; Ionizing radiation; Mechanical quantities; National measurement system; NBSIR 75-947. SP305-8.
- Optical quantities; Thermal quantities; Time and frequency; Acoustic quantities; Electrical quantities; Electromagnetic quantities; End-use measurements; Ionizing radiation; Measurement activities; Measurement institutions; Mechanical quantities; NBSIR 75-943. SP305-8.
- Optical radiation; Fluorimetry; Photometry; Radiometry; Terminology; Geometrical radiative transfer; Nomenclature; 13255. SP305-5.
- Optical radiation; Pyroelectrics; Radiometers; 15830. SP305-8.
- Optical radiation; Radiometry; Sources; Spectral radiance; Blackbodies; Non-blackbody emission; 9344. SP305.
- Optical radiation detectors; Optics; Polymers; Pyroelectric detectors; Pyroelectricity; Self-calibrated detectors; Detectors; Gold-blacks; 14520. SP305-6.
- Optical radiation measurement; Photometry; Radiometry; Spectroradiometry; TN910-1. SP305-8.
- Optical radiation measurement; Radiometry; Systematic errors; Uncertainties; Accuracy; 16583. SP305-8.
- Optical radiation news; Standard gases; Cryogenics; Energy conservation; Energy generation; Household appliance energy labels; Motor vehicles using dual-fuel systems; DIMINBS 57, No. 8, 177-200 (1973). SP305-5.
- Optical radiation sensor; Poling; Polymer; Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric effect; Relative spectral response; Ultraviolet detector; Heat detector; 15183. SP305-7.
- Optical reflection; Ferroemission; X-ray emission; Electronic density of states; Ferromagnetism; Iron; SP323, pp. 47-52. SP305-4.
- Optical refractive index; Programmed document distribution; Relaxation oscillator; Rotatable document bin array; Seat belt webbing abrasion; Abrasion resistance testing; Automatic document distribution; Flexible tubing pump; Inverting amplifiers; TN437. SP305.
- Optical rotation; Alcohol dehydrogenase; Fluorescence studies; Nicotinamide adenine dinucleotide; 13942. SP305-6.
- Optical rotatory power; Verdet coefficient; Bi<sub>3</sub>Ga<sub>2</sub>O<sub>5</sub>; Bi<sub>12</sub>GeO<sub>20</sub>; Bi<sub>12</sub>SiO<sub>20</sub>; Bi<sub>12</sub>TiO<sub>20</sub>; Bi<sub>12</sub>ZnO<sub>20</sub>; Faraday effect; Modulator materials; Optical activity; 11807. SP305-3.
- Optical scanner; Reliability; Transistors; Failure analysis; Hot spots; Integrated circuits; Laser scanner; Measurement method; Nondestructive test; Nonlinear operation; SP400-27. SP305-8.
- Optical scatter; Sputtering; Computer controlled process; Ion beam technology; Ionic polishing; Optical fabrication; SP348, pp. 189-192. SP305-4.
- Optical scattering; Biaxial birefringence; Epitaxial microstructure; SP462, pp. 239-245 (Dec. 1976). SP305-8.
- Optical scattering; Diamond single point turning; Interferometric control; Laser damage threshold; Optical absorption; Optical components; SP462, pp. 145-148 (Dec. 1976). SP305-8.
- Optical scattering; Thin-film coating; Alkali halides; Antireflectance coating; Chalcogenide glasses; Infrared optical properties; Laser damage; Optical absorption; SP462, pp. 214-220 (Dec. 1976). SP305-8.
- Optical shop testing; Shearing interferometer; Testing of optics; Interferometry; 14533. SP305-6.
- Optical spectra; Copper monochloroacetate 2.5 hydrate; Copper pairs; Copper-zinc pairs; E.p.r. spectra; Exchange coupled; 10662. SP305-1.
- Optical spectra; Oxygen; Reaction mechanisms; Ring-disk electrodes; Electrocatalysis; Electronic structure; Hydrogen peroxide; Iron phthalocyanines; Mössbauer; SP455, pp. 241-251 (Nov. 1976). SP305-8.
- Optical spectra; Plastic pipes; Thermal conductivity; Computer; Cryogenic; Cryptography; Data; Energy labeling; Energy needs; Fluid safety; Materials; NBS, GSA experiment; DIMINBS 59, No. 9, 193-216 (1975). SP305-7.
- Optical spectra; Purine bases; Adenine; Copper(II); EPR spectra; Exchange coupling; Metal ion pairs; 10913. SP305-2.
- Optical spectra; Thallium ion; Ammonium chloride; Luminescence, optical absorption; 13015. SP305-4.
- Optical spectra; Triplet state; Copper chloride-pyridine-*n*-oxide; Exchange coupled; Magnetic spectra; 9854. SP305-1.
- Optical spectra, atomic; Reference wavelengths; Standard wavelengths; Vacuum ultraviolet; J. Phys. Chem. Ref. Data 3, No. 4, 825-896 (1974). SP305-6.
- Optical spectrometry; Plasma torch; Platinum analysis; Preconcentration; Selenium analysis; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Sulfur analysis; Time-shared computer; X-ray absorption coefficients; TN422. SP305-1.
- Optical spectrometry; Plasma torch; Platinum analysis; Preconcentration; Silicon detector; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Time-shared computer; X-ray absorption coefficients; TN452. SP305-1.
- Optical spectrometry; Platinum analysis; Preconcentration techniques; Spark source mass spectrometry; Spectrochemical analysis; Spectrograph; Standard reference materials; Steel analysis; Target current scanning; Trace analysis; X-ray absorptiometry; TN502. SP305-2.
- Optical spectrometry; Pre-concentration techniques; Spectrochemical analysis; Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electron probe; Microanalysis; TN582. SP305-4.
- Optical spectrometry; Pre-concentration techniques; Spectrochemical analysis; Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electron probe; Microanalysis; TN542. SP305-2.

- Optical spectroscopy; Phosphorus; Polyester; Flame retardancy; Mass spectrometry; *NBSIR 75-741. SP305-7.*
- Optical spectroscopy; Phosphorus; Polyester; Flame retardancy; Mass spectrometry; *16037. SP305-8.*
- Optical spectroscopy; Stark effect; Atomic hydrogen; Balmer alpha; Beam foil; Crossed beams; Electrons; Excitation; *15891. SP305-8.*
- Optical spectroscopy; Symposium on trace characterization; Trace characterization; X-ray spectroscopy; Electrochemical methods; Electron and optical microscopy; Nuclear methods; *Mono. 100. SP305.*
- Optical spectroscopy;  $TbPO_4$ ; Antiferromagnet; Canted antiferromagnet; Heat capacity; Magnetic moment; Magnetic susceptibility; Metamagnet; *12410. SP305-4.*
- Optical spectroscopy; Torsional vibration; Barriers to rotation; Large amplitude vibrations; Momentum transfer; Neutron scattering; *14684. SP305-6.*
- Optical spectrum analyzer; Photoelastic effect; Sapphire; Scanning Fabry-Perot interferometer; YAG; Birefringence; Fused silica; *SP387, pp. 254-258. SP305-5.*
- Optical square; Pentaprism; Reflection; Refraction; Standard deviation; Uncertainty; Autocollimator; Calibration; Constant deviation prism; Geometrical model; *NBSIR 76-993. SP305-8.*
- Optical standards; Safety wheels; Bike regulations; Bomb disarmament; Computer auditing; Energy options; Explosive vapor detectors; Firebug; Impulse generators; MHD electrode materials; *DIM/NBS 60, No. 7, 1-24 (1976). SP305-8.*
- Optical surface probe; Surface detection; Dimensional metrology; Displacement measurement; Microscope; Non-contact sensing; *13617. SP305-5.*
- Optical surface probe; Surface detection; Dimensional metrology; Displacement measurement; Microscope; Noncontact sensing; *14243. SP305-4.*
- Optical surface quality; Scratch detection; Laser damage; Light scattering; *SP414, pp. 149-156. SP305-6.*
- Optical surfaces; Polishing; Radiation damage; Sputtering; Figuring; Ion-beams; *SP348, pp. 155-168. SP305-4.*
- Optical surfaces; Precision measurements; Refractive indices; Surface plate testing; Temperature measurement; Wavelength measurement; Double stars, measurement; Expansion measurements; Lens and mirror testing; Optical engineering; *10599. SP305-1.*
- Optical surfacing; Low scatter; Mirror; *SP387, pp. 64-68. SP305-5.*
- Optical techniques; Electrical measurements; Electro-optics; High voltage measurements; Kerr effect; Laser applications; *13912. SP305-6.*
- Optical techniques; Pulse techniques; Electric fields; Electrical measurements; Electro-optics; High-speed photography; High-speed techniques; High-voltage techniques; Kerr effect; Laser application; *12981. SP305-4.*
- Optical thickness; Saturation; Source-function; Absorption tube profiles; Equivalent-width; Line depth; Line-profiles; Non-LTE; *11081. SP305-2.*
- Optical transfer function; Coherence; Image formation; Modulation transfer; *14120. SP305-6.*
- Optical transfer function; Partial coherence; Pupil function; Wave-front shearing interferometry; Impulse response; Lens aberrations; *15396. SP305-7.*
- Optical transfer function; Point spread function; Acutance; Contrast transfer function; Edge gradient; Image quality; Light equivalent background; Light induced background; Limiting resolution; Line spread function; *14707. SP305-6.*
- Optical transfer function; Point spread function; Acutance; Contrast transfer function; Edge gradient; Image quality; Light equivalent background; Light induced background; Limit resolution; Line spread function; *16197. SP305-8.*
- Optical transfer function; Resolution charts; Veiling glare; Blooming; Contrast transfer function; Distortion; Flare; Image quality; Light induced background; Limiting resolution; Night vision devices; *16599. SP305-8.*
- Optical transform; Particle size measurements; Aerosol light scattering; Aerosol sizing; Aerosol spectrometer; Laser light scattering by aerosols; *SP412, pp. 89-96. SP305-6.*
- Optical transitions; Surface potential; Band population effect; Electroluminescence; Fermi level shifts; Indium antimonide (InSb); *SP323, pp. 407-410. SP305-4.*
- Optical transitions; X-ray inelastic scattering; X-ray Raman scattering; Compton scattering; Lithium; *14518. SP305-6.*
- Optical vibration; Vibration spectrum; Cold neutrons; Frequency; Inelastic scattering; Metal hydrides; Neutron scattering; *9506. SP305.*
- Optical wedge; Photodetector; Relative spectral output; Wavelength; Bar code reader; Filters; *NBSIR 74-580. SP305-7.*
- Optical zero phonon line; Spin resonance; Statistical method for dislocations; Line broadening; *SP317, pp. 1169-117. SP305-3.*
- Optical-coincidence; Patents; References; Search; System; Thinking; Information retrieval; Information storage; Mechanized; Methodology; *10527. SP305-1.*
- Optically thin; Stark profile; High temperature; Hydrogen arc; Line broadening; Lyman alpha; *15413. SP305-7.*
- Optically thin line emission; Radiative transfer; Solar coron Spectroscopic diagnostics; *12924. SP305-4.*
- Optically thin line emission; Radiative transfer; Solar coron Spectroscopic diagnostics; *12925. SP305-4.*
- Optically thin line emission; Radiative transfer; Solar coron Spectroscopic diagnostics; *12926. SP305-4.*
- Optical-model; Total neutron cross section;  $^{100}Ho$ ; Black nucleus model; Coupled channel calculation; Nuclear orientation; Nuclear Ramsauer effect; Nuclear shape; *1200. SP305-3.*
- Optician; Polishing; Surfaces; Zinc selenide; Copper; Molybdenum; *SP435, pp. 10-13 (Apr. 1976). SP305-8.*
- Optics; Bolometer; Cryogenics; Dielectric; Glass-ceramic; *14742. SP305-7.*
- Optics; Partial coherence; Linear optical systems; Microdensitometry; *14500. SP305-6.*
- Optics; Physical optics; Sagnac interferometer; Autocorrelation; Interferometry; Lens testing; Modulation transfer function; *12955. SP305-4.*
- Optics; Picosecond; Pulse; Waveguide; Fiber optics; GaAs; Impulse; Laser; *14004. SP305-6.*
- Optics; Polarimetry; Thin film; ADP modulator; Automatic ellipsometer; Ellipsometer; *10097. SP305-1.*
- Optics; Polymers; Pyroelectric detectors; Pyroelectricity; Self-calibrated detectors; Detectors; Gold-blacks; Optical radiation detectors; *14520. SP305-6.*
- Optics; Pyrometry; Radiometry; Relative transmittance factor; Dichroic polarizers; *J.74C Nos. 1 and 2, 9-13 (1970). SP305-2.*
- Optics; Refractive index; Fused silica; Glasses; Interferometer; *J.75A No. 4, 279-281 (1971). SP305-3.*
- Optics; Research at NBS; *16658. SP305-8.*
- Optics; Slit imagery; Transfer function; Impulse response; Linear microdensitometry; Microdensitometry; *153. SP305-7.*
- Optics; Thin films; Ellipsometry; *15061. SP305-7.*
- Optics, Ives medal; Ives, medal; Medal, Ives; *14645. SP305-4.*
- Optics, precision; Reflector, cat's-eye; Retroreflector, cat's-eye; Optical devices; *15202. SP305-7.*
- Optimal; Tornadoes; Total cost minimization; Benefit-cost analysis; Disaster mitigation; Earthquakes; Economics; Efficiency; Floods; Hurricanes; Natural disasters; *NBSIR 74-473. SP305-6.*

- Optimal coefficients; Periodicity; Quadrature; Algebraic numbers; Approximation; Diophantine approximation; Exponential sums; Functions of several variables; Geometry of numbers; Good lattice points; Numerical integration; *13128. SP305-5.*
- Optimal container routing; Optimal routing; Routing in a network; Containers; Inventory; Network flows; *13282. SP305-5.*
- Optimal formulas; Quadrature; Best integration formulas; Diophantine approximation; Gaussian quadrature; Integration; Monte Carlo; Multiple integration; Multiple quadrature; Numerical analysis; Numerical integration; *13986. SP305-6.*
- Optimal interchange location; Optimal networks; Optimal road layout; Planar graphs; Planar networks; Road location; Steiner's problem; Street-network problem; Transportation theory; *11633. SP305-2.*
- Optimal location; Facility location; *13950. SP305-6.*
- Optimal location; Facility location; Network theory; *13958. SP305-6.*
- Optimal locations; Concave functions; Networks; *14791. SP305-7.*
- Optimal locations; Systems analysis; Transposition; Containerization; Maritime, cargo; Mathematical models; *TN530. SP305-2.*
- Optimal networks; Optimal road layout; Planar graphs; Planar networks; Road location; Steiner's problem; Street-network problem; Transportation theory; Optimal interchange location; *11633. SP305-2.*
- Optimal performance; Partial coherence slit illumination; Resolution; Spectroscopic slit; Diffraction; Luminosity; *9941. SP305-1.*
- Optimal quadrature; Quadrature; Analytical functions; Approximation; Gaussian quadrature; Integration; *J.75B Nos. 1 and 2, 85-88 (1971). SP305-3.*
- Optimal quadrature; Quadrature; Best quadrature; Error functions; Minimum-norm formulas; Numerical analysis; Numerical integration; *12599. SP305-4.*
- Optimal road layout; Planar graphs; Planar networks; Road location; Steiner's problem; Street-network problem; Transportation theory; Optimal interchange location; Optimal networks; *11633. SP305-2.*
- Optimal routing; Routing in a network; Containers; Inventory; Network flows; Optimal container routing; *13282. SP305-5.*
- Optimal scheduling; Parametric analysis; Transportation vehicle; Utility functions; Computer algorithm; Iterative equation; *10185. SP305-1.*
- Optimal sorting; Sorting networks; Decision networks; Minimum delay programs; Network; Network optimization; *13193. SP305-5.*
- Optimization; Algorithms; Combinatorics; Mathematics; Matroids; Networks; Operations research; *9314. SP305.*
- Optimization; Precision; Run statistics; Security; Terminology; Validation; Warranty; Accuracy; Audit; Certification; Coding; Independent; Documentation; *SP406, pp. 141-144. SP305-7.*
- Optimization; Proving ring; Structural design; Theory; Curved bar analysis; Elasticity; Force transducer;  $n$ -degree elliptical ring; Nonlinear programming; *J.72C No. 2, 139-160 (1968). SP305-1.*
- Optimization; Reliability; Safety; Serviceability; Structures; Building criteria; Design; *SP361, Vol. 1, pp. 181-190. SP305-4.*
- Optimization; Resonance; Scattering; Tissue characterization; Tissue parameters; Tumor detection; Ultrasound; Diagnosis; Doppler effect; *SP453, pp. 11-17 (Oct. 1976). SP305-8.*
- Optimization; Rib-stiffened plate; Structural analysis; Curved bar analysis; Discrete variables; Elastic; Force transducer; Minimum weight;  $n$ -degree elliptical ring; Nonlinear programming; Nonrandom complex method; *J.72C No. 4, 249-258 (1968). SP305-1.*
- Optimization; Scheduling; Time-sharing; Computer systems; *J.76B Nos. 3 and 4, 107-117 (1972). SP305-4.*
- Optimization; Shortest-path; Transportation; Algorithm; Graph; Network; *10552. SP305-1.*
- Optimization; Stochastic Weber problem; Always convergent algorithms; Exponentially distributed points; Facility location; Location theory; Normally distributed points; Numerical analysis; *J. Res. 80B No. 1, 53-73 (1976). SP305-8.*
- Optimization; Systems of distinct representatives; Theory of computation; Combinatorics; Dynamic programming; *J.74B No. 4, 243-247 (1970). SP305-2.*
- Optimization; Telpak rate structure; Communications network; Computer program; Heuristic; Minimum cost; Network configuration; *TN787. SP305-5.*
- Optimization and feasibility; Rehabilitation, conservation; Housing; Housing demand, supply, needs; Housing rehabilitation; Land economics; Market adjustments; *NBSIR 76-1043. SP305-8.*
- Optimization of variables 10 MW nuclear reactor; Pneumatic tubes; Radiochemical laboratories; 14 MeV neutron generator; 100 MeV-40 KW LINAC; Clean room; Computers; Counting rooms; Feedback analysis; *9154. SP305.*
- Optimization techniques; Pattern recognition; Signal processing; Spectral resolution; Statistics; Analytical chemistry; Curve fitting; Data reduction; Feature selection; Multivariate analysis; *15964. SP305-8.*
- Optimum allocation; Secondary standards; Calibration of errors; National standards; *9650. SP305-1.*
- Optimum filter; Phase noise; Radio propagation; Time comparison; USNO; VLF propagation; WWVL; Effect of mass on frequency; Flicker noise; NBS; Noise correlation; NSS; *11241. SP305-2.*
- Optimum frequency estimate; Primary frequency standards; Relativity; SI second; Time scale accuracy algorithm; Time scale stability; Coordinate time scales; Frequency calibration; International frequency comparisons; *15672. SP305-7.*
- Optimum prediction; Third order feedback system; Time scales; Time synchronization; Computer simulation; Flicker noise; Frequency drift; *10301. SP305-1.*
- Optimum radiographic systems; Transmission radiography; X-ray image signals; X-ray scatter; Image contrast; Monoenergetic x-ray beams; *15276. SP305-7.*
- Optimum time prediction; Precision and accuracy of timing; Time coordination, synchronization, and dissemination; UTC(NBS); AT(NBS); Clock dispersion; Clock ensemble; Frequency and time standards; International Atomic Time; Loran-C; Model of clock stability; *13998. SP305-6.*
- Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Fracture; Glass; High temperature materials; *TN514. SP305-2.*
- Opto-elastic properties; Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Glass; High temperature materials; Inhomogeneities in glass; *TN531. SP305-2.*
- Opto-elastic properties; Oxides; Ruby; Rutile; Titanium; Titanium dioxide; Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical properties; Chemical analysis; Chromium ions; Corundum; Crystal defects; Crystal growth; *TN565. SP305-3.*
- OR users and producers; Planning; Conference proceedings; Contract research; Federal government; Information exchange; NBS; Operations research/systems analysis studies; *SP347. SP305-3.*
- Oral tissues; Resilient liners; Retention; Silicone rubber; Stability; Candida albicans; Dentures; Dimensional changes in dentures; *10499. SP305-1.*

- Organic coatings; Performance characteristics; Specifications; Wear; Adhesion; Floor coverings; 11204. SP305-2.
- Orbit perturbation; Satellite ephemeris; Variation of parameters; Celestial mechanics; *J.79B Nos. 1 and 2, 1-15 (1975). SP305-7.*
- Orbital; Perfluoroalkanes; Perfluorocycloalkanes; Electron affinity; Fluorocarbons; 13582. SP305-5.
- Orbital; Periodic acid; Rules; Symmetry; Acid; Benzalazine; Cleavage; Complex; Molecules; 12593. SP305-4.
- Orbital density of states; Soft x-ray emission; Augmented plane wave method (APW); Electronic density of states; Electronic specific heat; Gold aluminide (AuAl<sub>3</sub>); "muffin-tin" potential; *SP323, pp. 297-301. SP305-4.*
- Orbital energy; Polarizability; Quadrupole moment; Spectroscopic constants; *Ab initio* electronic calculation; Dipole moment; Dissociation energy; Electron affinity; Energy; Field gradient; Magnetic constants; Molecular electronic structure; *TN438. SP305.*
- Orbitals; Potential energy curves; Pseudopotentials; Self-consistent field; Valence electrons; Basis functions; Configuration mixing; Dipole moments; Electronic structure of molecules; Hartree-Fock; Integrals, evaluation of; Molecular structure; 16611. SP305-8.
- Orbits; Solenoidal; Electrons; Escape; Faraday; Magnetic; 9998. SP305-1.
- Orchard leaves; Aluminum; Analysis; Business; Differential cathode ray polarography; Iron; Lead; Nickel; 15344. SP305-7.
- Orchard leaves; Proton tracks; Standard reference materials; Bovine liver, cellulose nitrate; Image analyzing system; Microscope; Neutron activation analysis; Nitrogen; 14705. SP305-6.
- Orchard leaves; Reference sample; X-ray analysis; Calibration; Filters; 15984. SP305-8.
- Orchard leaves; Standard reference materials; Trace elements; Biological; Bovine liver; 14715. SP305-6.
- Orchard leaves; Standard reference sample; X-ray analysis; Calibration; Filters; 16065. SP305-8.
- Orchard leaves; Steels; Track etch method; Uranium; Boron; Glasses; Image analyzing system; Liver; Microscopy; Neutron activation analysis; Nitrogen; Nuclear track technique; 12688. SP305-4.
- Orchard leaves; Trace mercury; Agriculture; Environment; Isotope dilution; Mass spectroscopy; NBS Standard Reference Material; 14789. SP305-7.
- Orchard leaves; Uranium; Alpha tracks; Boron; Botanical material; Fission tracks; Kale; 12269. SP305-3.
- Order; Symbols; Units; Brigg; Logarithmic scales; Octave; Optical density; 11057. SP305-2.
- Order of basic sets; Zeros of polynomials in regular sets; Basic sets; Cannon sum of basic sets; Lower semiblock matrices; *J. 76B Nos. 3 and 4, 153-159 (1972). SP305-4.*
- Order oxygen vacancies; Tantalum oxide; Tantalum tungsten system; Crystal structure; Non-stoichiometry; 11558. SP305-2.
- Order statistics; Princeton University; Rietz, H. L.; Shewhart, W. A.; Statistical tolerance limits; Wilks, S. S.; Wishart, John; Annals of Mathematical Statistics; Army Experiment Design Conferences; Dodd, E. L.; Educational testing; 15513. SP305-7.
- Order statistics; Probability distributions; Robust estimators; Statistical estimation; Weighted means; Wild observations; Asymptotic theory; Efficiency; Median; 10229. SP305-1.
- Order statistics; Probability plot; Statistical methods; Statistics; Tests of distributional hypotheses; Correlation coefficient; Medians; Normal distribution; 14856. SP305-7.
- Order statistics; Probability plot correlation coefficients; Probability plots; Statistics; Correlation coefficient; Data analysis; Distribution analysis; Estimation; Fortran subroutine; Lambda distribution; Medians; Normality; 14341. SP305-6.
- Order statistics; Range; Statistics; Tables; Tukey's lambda distributions; Approximations; Distributions, non-normal; Lambda distributions; Logistic distribution; 12603. SP305-4.
- Order statistics; Social sciences, services to; Statistical education in the United States; Statistical tolerance limits; U.S. Army programs in statistics; U.S. Government, services to; Wilks award; Wilks, S. S.; *Annals of Mathematical Statistics 16114. SP305-8.*
- Order-disorder; Peierls barriers; Pt-Cu; Silver; tellurium (Ag<sub>2</sub>Te); Ti-Al; TiCo; TiFe; TiNi; TiTe; Binary alloy; Bi<sub>2</sub>Te<sub>3</sub>; CdSe; Copper-gold (Cu-Au); Cu<sub>3</sub>Au; *SP323, pp. 48-492. SP305-4.*
- Order-disorder; Phase transition; Thermal analysis; Dipole ordering; DTA; NMR; 13009. SP305-4.
- Order-disorder; Raman spectra; Rocksalt structure; Rutile structure; Spinel structure; Corundum structure; *SP364, pp. 113-126. SP305-4.*
- Order-disorder; <sup>125</sup>Sb; Alloys; Hyperfine fields; Mössbauer effect; 12865. SP305-4.
- Order-disorder transformation; Ordering of atoms; Phase stability; Sigma phases; Transition metals; A15-type phase; Atomic packing; Beta-tungsten phase; Electronic structure; 10498. SP305-1.
- Order-disorder transition; Ammonium sulfate; Deuteron magnetic resonance; Ferroelectricity; Neutron diffraction; 11070. SP305-2.
- Order-disorder transitions; Random variables; Restricted chains; Theta point; Transition probabilities; Volume exclusion; Linear polymers; Markov chains; 11646. SP305-2.
- Ordered defects;  $\alpha$ -PbO<sub>2</sub>-type phase(s); Single crystals; Superstructure; Ta<sub>2</sub>O<sub>5</sub>-ZrO<sub>2</sub>; Equilibrium; Nb<sub>2</sub>O<sub>5</sub>-ZrO<sub>2</sub>; *SP364, pp. 183-195. SP305-4.*
- Ordered spans; Random walks; Stable distributions; Abel summation; 16011. SP305-8.
- Ordered spans; Self-avoiding polymer chains; Shape of polymer chains; Spans; Unrestricted polymer chains; Monte Carlo analysis; 15622. SP305-7.
- Ordered ternary silicides and germanides; Silicides and germanides; Ternary Ni<sub>3</sub>In-related phases; TiNiSi; Fe<sub>2</sub>P and Mn<sub>2</sub>P; Metal-metal bonding; Metal-site occupancies; Ni<sub>3</sub>In; *SP364, pp. 613-622. SP305-4.*
- Ordering; Precipitation; Spinodal decomposition; Age hardening; Copper-titanium; D1a; Metastable solvus; Microstructure sequence method; Nucleation; 15053. SP305-7.
- Ordering; Relaxation times; Solid solutions; Alloys; Contour term; Core polarization; Exchange enhancement; Knight shifts; LaNi<sub>5</sub>; LaNi<sub>5-x</sub>Pt<sub>x</sub>; LaPt<sub>3</sub>; NMR; 14889. SP305-7.
- Ordering; Silicides; Carbides; Chemical bonding; Defect structures; Interstitial compounds; *SP364, pp. 487-504. SP305-4.*
- Ordering effects; Superlattice; Tantalum carbide; Transition metal compounds; Vanadium carbide; Carbides; Electron fraction; Interpretation of ordering effects; Niobium carbide; *SP364, pp. 583-590. SP305-4.*
- Ordering of atoms; Phase stability; Sigma phases; Transition metals; A15-type phase; Atomic packing; Beta-tungsten phase; Electronic structure; Order-disorder transformation; 10498. SP305-1.
- Ordering reaction; Satellites; Spinodal decomposition; Superlattice reflections; Transmission electron microscopy;  $\delta'$ ; Metastable phase; 15840. SP305-8.
- Ordering transition; Polarization; Remanent; Strontium titanate; Dielectric relaxation; Electret state; Impurity; 16639. SP305-8.
- Order-parameters; Polymer thermodynamics; Ehrenfest equation; Glassy state; 16283. SP305-8.
- Ordinary differential equations; Parabolic cylinder functions; Turning points; Wave scattering; Weber functions; Asymptotic approximations; Connection formulas; Error bounds; 14946. SP305-7.



Ordinary differential equations; Saddle points; Special functions; Turning points; Whittaker functions; Asymptotic analysis; Darboux's method; Definite integrals; Hypergeometric functions; Incomplete gamma function; Legendre functions; 15818. SP305-8.

Ordinary differential equations; Turning points; Approximation; Asymptotics; Asymptotic theory; Error analysis; 15414. SP305-7.

Ordinary spin states; Spin states; W spin; Arbitrary spin state; Basic spin; Linear combinations; 9768. SP305-1.

Ores; Archaeology; Isotopic ratios; Laurion; Lead; Mass spectrometry; 14918. SP305-7.

Ores; Organic; Polymers; Spectroscopy; Bibliography; Data; Infrared; Inorganic; Minerals; SP428. Parts 1, 2, and 3. SP305-8.

Organic; Oxidation; Active; Chemistry; Dioxide; Heterogeneous; Manganese; 15902. SP305-8.

Organic; Oxidation; Periodates; Review; Application; Bio-organic; Methods; 14154. SP305-6.

Organic; Polymers; Rotation; Spectroscopy; Crystal dynamics; Crystallography; Crystal structure; Inorganic; Molecular solid; 10417. SP305-1.

Organic; Polymers; Spectroscopy; Bibliography; Data; Infrared; Inorganic; Minerals; Ores; SP428. Parts 1, 2, and 3. SP305-8.

Organic acid; Oxycellulose; Stability; Sulfuric acid; Thermogravimetric analysis; Alum; Aluminum; Apparent activation energy; Calcium; Cellulose; Crosslinking; Differential thermal analysis; Ion exchange; 12218. SP305-3.

Organic acid; Serums; Soap; Stabilizer; Styrene-butadiene rubber (SBR); Washes; Bound styrene; Carbon black; Chemical analysis; Latexes; Oil; TN485. SP305-1.

Organic chemistry; Oxidation; Reagent; Review; Active; Manganese dioxide; 15880. SP305-8.

Organic coating; Steel reinforcing bars; Chlorides; Concrete; Corrosion; Epoxy coatings; 13487. SP305-5.

Organic coating; Steel reinforcing bars; Chlorides; Concrete; Corrosion; Epoxy coatings; TN768. SP305-5.

Organic coatings; Paint; Pigments; Polymers; Properties; Resins; Selection; Substrates; Surface preparation; Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant; Lacquer; BSS7. SP305-1.

Organic coatings; Photodegradation; Surface degradation; Volatile degradation products; Xenon-arc irradiation; Atmospheric exposure; ATR spectroscopy; Clear and pigmented films; Infrared analysis; Internal reflection spectroscopy; SP336, pp. 299-312. SP305-3.

Organic coatings; Polyvinyl chloride coatings; Steel reinforcing bars; Bridge decks; Chloride ions; Concrete; Corrosion; Deicing salts; Epoxy coatings; B5565. SP305-7.

Organic coatings; Pullout tests; Bond strength; Coated reinforcing bars; Evaluation; 15782. SP305-8.

Organic coatings; Restoration; Statues; Bronze statuary; NBSIR 3-405. SP305-6.

Organic coatings; Steel reinforcing bars; Bridge decks; Chloride ions; Concrete; Corrosion; Deicing salts; Epoxy coatings; 4682. SP305-6.

Organic coatings; Steel reinforcing bars; Bridge decks; Chlorides; Concrete; Corrosion; Epoxy coatings; 15112. SP305-7.

Organic coatings; Steel reinforcing bars; Bridge decks; Chloride ions; Corrosion; Deicing salts; Epoxy coatings; 16189. SP305-5.

Organic compound; Crystal structure; Cyclic nitramine; 14758. SP305-7.

Organic compound; Oxidative degradation; Peroxy radical polymerization; Poly(ethylene oxide); Polymer; Polypropylene; Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; Mechanism; SP357, pp. 85-92. SP305-4.

Organic compound; RDX; Crystal; Crystal structure; Cyclotrimethylene-trinitramine; Explosives; Neutron diffraction; 13154. SP305-5.

Organic compounds; Photofragments; Primary processes; Quantum yield; Far ultraviolet photochemistry; Free radicals; 14619. SP305-6.

Organic compounds; Rate constant; Atomic oxygen; Bromoalkane; Chemical kinetics; Chloroalkane; Mass spectrometry; 11324. SP305-2.

Organic compounds; Rate constant; Alkane; Atomic oxygen; Chemical kinetics; Mass spectrometry; 11325. SP305-2.

Organic compounds; Rate constants; Atomic oxygen; Chemical kinetics; Compilation; Critical evaluation; Gases; J. Phys. Chem. Ref. Data 2, No. 3, 467-518 (1973). SP305-6.

Organic compounds; Rate constants; Atomic oxygen; Gas phase; Kinetics; Mechanism; 15240. SP305-7.

Organic conductors; Paramagnetism; TCNQ compounds; Magnetic susceptibility; 14350. SP305-6.

Organic conductors; Tetrathiafulvalenium-tetracyanoquinodimethane; TTF-TCNQ; Electrical conductivity; 16061. SP305-8.

Organic conductors; Thermal expansion; TTF-TCNQ; D.c. conductivity; Microwave conductivity; 16050. SP305-8.

Organic content of dentin; Surface area; Dentin; Heats of wetting; 9595. SP305-1.

Organic crystal; X-ray diffraction; Crystal structure; 15284. SP305-7.

Organic dye laser; Spectroscopy; Dye laser; Laser; 12517. SP305-4.

Organic dye lasers; Wedged optical surfaces; Dye laser continua; High resolution; Interferometric effects; Optical components; 13678. SP305-5.

Organic electrolyte; Graphite electrode; High energy density cell; Lithium deposition; 12088. SP305-3.

Organic fibers; Review; Steel fibers; Cement; Concrete; Fiber-reinforced cements; Fiber-reinforced concretes; Glass fibers; Mechanical properties; 15028. SP305-7.

Organic ligands; Releasing agents; Solvents; Analysis; Atomic absorption; Detection limits; Electrodeless discharge; Interferences; Nebulizer-burner; 11427. SP305-2.

Organic liquid sample irradiation; Palladium distribution ratios; Platinum distribution ratios; Chlorine effect; Counting corrections; Gamma intensity attenuation; Neutron flux depression; SP422, pp. 1181-1187 (Aug. 1976). SP305-8.

Organic liquids; Rayleigh wings; Argon ion laser; Brillouin scattering; Hypersonic velocity; 10067. SP305-1.

Organic liquids; Surface tension; Binary mixtures; Density; 11710. SP305-2.

Organic materials; Oxidation; Polymers; Pyrolysis; Burning; Hydrocarbons; SP357. SP305-4.

Organic materials analysis; Trace element analysis; Wet ashing; Ashing techniques; Dissolution; Dry ashing; SP422, pp. 491-507 (Aug. 1976). SP305-8.

Organic molecule; Superconductor; Susceptibility; Diamagnetism; Light scattering; Molecular diffusion; 16529. SP305-8.

Organic molecule imaging; Thin films; Whiskers; Field-ion microscopy; Mass spectrometry ionization sources; 10689. SP305-1.

Organic molecules; Organic radical reactions; Rate constants; Reference data; Chlorine atom reactions; Hydrogen transfer reactions; Liquid phase; J. Phys. Chem. Ref. Data 3, No. 4, 937-978 (1974). SP305-6.

Organic plasticizers; Plasticizers; Solubility parameters; Energy of vaporization; Internal energies of vaporization; Molecular vaporization; 11564. SP305-2.

- Organic plating baths; Triethylboron; Beryllium, electrodeposition of; Beryllium azide; Beryllium thiocyanate, decaborane; Dimethyl beryllium; Magnesium, electrodeposition of; Nonaqueous plating baths; Grignard reagents; *12304. SP305-3.*
- Organic radical reactions; Rate constants; Reference data; Chlorine atom reactions; Hydrogen transfer reactions; Liquid phase; Organic molecules; *J. Phys. Chem. Ref. Data* 3, No. 4, 937-978 (1974). *SP305-6.*
- Organic residues; Outgassing; Polymeric materials; Residual gas analysis; Test facility; Vacuum; Chemical analysis; Contamination; *SP336*, pp. 1-24. *SP305-3.*
- Organic separations; Chromatography; Interactive gel networks; Liquid chromatography; *12399. SP305-4.*
- Organic separations; Chromatography (liquid); Interactive gel; *14472. SP305-6.*
- Organic SRMs; Standard reference materials; Spectrophotometry SRMs; Clinical chemistry; *12194. SP305-3.*
- Organic trace analysis; Qualitative accuracy; Quality control; Quantitative accuracy; Reference materials; Sampling; Concentration; Detectors; Extraction; Gas chromatography; Isolation and clean-up; Mass spectrometry; *SP422*, pp. 9-34 (Aug. 1976). *SP305-8.*
- Organic trace analysis; SRM's for clinical analysis; Urea SRM; Uric acid SRM; 6-amino-6-deoxy-D-glucose-6-<sup>15</sup>N; Bilirubin analysis; Calcium carbonate SRM; Conformations by NMR; Corn syrup analysis; Creatinine SRM; *TN507. SP305-1.*
- Organic waste conversion; Thermodynamic data for incinerators; Waste utilization; Fuel from waste; Incinerators; *15065. SP305-7.*
- Organics; Pesticides; Radionuclides; Sample handling; Sampling; Trace elements; Chemical analysis; Environmental samples; Long-term storage; Microbiologicals; *TN929. SP305-8.*
- Organization; Conservation; Energy; *SP403*, pp. 13-18 (June 1976). *SP305-8.*
- Organization; Overview; Program descriptions; National Bureau of Standards; *SP367. SP305-4.*
- Organization; Search and rescue; Simulation; Team development; Coast Guard; Development; Interdisciplinary team; Management science; Model building; *12243. SP305-3.*
- Organization of performance factors; Performance requirements; Required conditions; Users' activities; Users' characteristics; *SP361, Vol. 1*, pp. 23-30. *SP305-4.*
- Organizational development; Project management; System integration; Automation; Human relations; Job enrichment; *15570. SP305-7.*
- Organoboron compounds; Boron; Difluoroborane; Fluoride; Hydride; Hydroboration; Isotope exchange; *10529. SP305-1.*
- Organoboron compounds; Organometallic chemistry; Boron; Boron chemistry; Catenated boron compounds; Diboron chemistry; *12641. SP305-4.*
- Organoboron compounds; Proton magnetic resonance; Protonolysis; Stereochemistry; Tetrachlorodiborane(4); 1,2-bis(dichloroboryl)ethylene; Acetylene; *10293. SP305-1.*
- Organoboron compounds; Tetrachlorodiborane (4); Tetrafluorodiborane (4); Boron; Boron subhalides; Fluoroolefins; Halides; Haloolefin; *12995. SP305-4.*
- Organoboron compounds; Tetrachlorodiborane(4); Tetrafluorodiborane(4); Boron; Boron subhalides; Halides; Haloolefins; *12292. SP305-3.*
- Organoboron halides; Acetylenic boranes; Ethynyl-dichloroborane; Ethynyl-difluoroborane; *12707. SP305-4.*
- Organomercury; Solvent extraction; Environmental matrices; Extraction yields; Mercury; Neutron activation analysis; *SP422*, pp. 1233-1240 (Aug. 1976). *SP305-8.*
- Organometallic; Mössbauer; NQR; Nuclear quadrupole coupling; Organotin; *14816. SP305-7.*
- Organometallic chemistry; Boron; Boron chemistry; Catenated boron compounds; Diboron chemistry; Organoboron compounds; *12641. SP305-4.*
- Organometallic compound; Decaborane; Electrodeposition; magnesium; Lithium deposition; Nonaqueous electroplating; *12027. SP305-3.*
- Organometallic compounds; Silicon; Tin; EPR; Free radical; Germanium; Irradiation; Low-temperature reaction; *J.7. No. 2, 201-206 (1969). SP305-1.*
- Organometallic compounds; Tetrachlorodiborane(4); Tetrafluorodiborane(4); Addition reactions; Boron; Boron subhalides; *10530. SP305-1.*
- Organometallics; Oxygen; Standard reference materials; Stee Neutron generator activation analysis; *11649. SP305-2.*
- Organosilanes; Organoxo; Stereochemistry; Synthesis; Tungsten(VI) halides; Alkoxy; Chlorides; Exchange reactions; Fluorides; Methoxy; Nuclear magnetic resonance; *126-SP305-4.*
- Organosilanes; Organoxytungsten(VI) fluorides, *Pi*-Bonded; Substituent parameters; Synthesis; Tungsten hexafluoride; Chemical shifts; Fluorine NMR; *12816. SP305-4.*
- Organotin; Organometallic; Mössbauer; NQR; Nuclear quadrupole coupling; *14816. SP305-7.*
- Organotin compounds; Relationship; Mössbauer spectroscopy; Nuclear magnetic resonance; *11395. SP305-2.*
- Organoxo; Stereochemistry; Synthesis; Tungsten(VI) halide; Alkoxy; Chlorides; Exchange reactions; Fluorides; Methoxy; Nuclear magnetic resonance; Organosilanes; *12646. SP305-4.*
- Organoxytungsten(VI) fluorides, *Pi*-Bonding; Substituent parameters; Synthesis; Tungsten hexafluoride; Chemical shifts; Fluorine NMR; Organosilanes; *12816. SP305-4.*
- Orientation; Angular momentum; Atoms; Molecules; Nuclear; *13156. SP305-5.*
- Orientation; Phonons; Rotational disorder; Single crystal; All cyanides; Crystal dynamics; Dispersion curves; *151-SP305-7.*
- Orientation; Potassium; Spark cutting; Zone refining; Crystal growth; Fermi surface; *J.71A2-443, 127-132 (1967). SP305-3.*
- Orientation; Quantum tunneling; Atom addition; Hydrogen isotopes; Low temperatures; Olefins; *12040. SP305-3.*
- Orientation; Ruby; Single crystal; Topography; X ray; Laser; *12066. SP305-3.*
- Orientation dependence; Scattering; Tissue characterization; Ultrasound; Bragg diffraction; Diagnosis; Frequency dependence; *SP453*, pp. 197-206 (Oct. 1976). *SP305-8.*
- Orientation effects; Oxygen reduction; Electrochemistry; Molybdenum oxides; *SP455*, pp. 305-312 (Nov. 1976). *SP305-8.*
- Orientation function; Preferred orientation; Pyrolytic graphite; Magnetic susceptibility; *14029. SP305-6.*
- Orientation parameter; Photo absorption; Photon polarization; Polarizabilities; Electromagnetic transition; Matrix elements; Nuclear orientation; *10819. SP305-1.*
- Orientation polarization; Theory; Ceramics; Dielectric constants; Electronic polarization; Interfacial polarization; Laser polarization; *12452. SP305-4.*
- Orientation release stress; Plastic heat-shrinkable film; Retention ratio; Shrink film, plastic; Balanced and unbalanced film; Film, plastic; *PS29-70. SP305-3.*
- Orientation correlation function; Time correlation function; Infrared absorption; Light scattering; Liquids; Magnetic resonance; Molecular dynamics; Neutron scattering; *116-SP305-2.*
- Orientation disorder; Phase transition; Reorientation; Persistence time; Rubidium hydrosulfide; Vibration amplitude; Neutron scattering; *13930. SP305-6.*
- Orientation disorder; Potassium cyanide; Sodium cyanide; Angular distribution; Crystal structure; Cyanide ion; Debye-Waller factor; Neutron diffraction; *13290. SP305-5.*

- Orientation disorder; Reorientation; Residence time; Single crystal; Ammonium bromide; Ammonium ion; Neutron scattering; *15032*. SP305-7.
- Orientation relaxation; Calcium fluoride; Defect dipoles; Dielectric relaxation; ESR line broadening; Gadolinium; *11956*. SP305-3.
- Oriented; Partial melting; Recrystallization; Rubber; Slow melting; Stark rubber; Crystal size; Crystallized rubber; Heating rate; Melting range; Melting temperature; *J71A3-455*, 225-229 (1967). SP305.
- Oriented; Partial melting; Recrystallization; Rubber; Slow melting; Stark rubber; Crystallized rubber; Crystal size; Heating rate; Melting range; Melting temperature; *11436*. SP305-2.
- Oriented crystal growths; Twin obliquity and twinning; Coincidence-site lattices; Determination of twin laws; Equivalence of twin laws; Lattices; *14416*. SP305-6.
- Oriented lamella; Torsion pendulum;  $\alpha$ -modification;  $\beta$ -modification; Isotactic polypropylene; Mechanical relaxation; *11278*. SP305-2.
- Oriented media; Continuum mechanics; Cosserat continua; Dislocation field theory; *SP317*, pp. 817-829. SP305-3.
- Oriented media; Thermodynamics and dislocation motion; Constitutive relations; Continuum mechanics; Dislocation kinematics; Dislocations; *SP317*, pp. 1041-1052. SP305-3.
- Oriented melt; Rheological unites; Row nucleus; Shishkebab; Sonicated solution; Spinning; Stirred solution; Crystallization; Cylindrite; Drawing of swollen polymer solid; Epitaxial overgrowth; Extrusion; Hard elastomer; Nucleation; *16274*. SP305-8.
- Oriented sheet; Plastic sheet; Polystyrene plastic sheet; Sheet, plastic; Impact resistance, plastic sheet; *PS31-70*. SP305-3.
- Oriented water; Quadrupole-field gradient interaction; Rayon fibers; Broadline NMR;  $D_2O$ ; Dipole-dipole interaction;  $H_2O$ ; *10534*. SP305-1.
- Orifice; Orifice die; Preliminary extrudate; Test extrudate; Extrusion plastometer; Load; Melt flow rate; *J76A No. 2*, 145-146 (1972). SP305-4.
- Orifice; Volume flowmeters; Vortex shedding; Angular momentum; Cryogenic; Flow; Liquid nitrogen; Mass; Mass flowmeters; Measurement; *TN650*. SP305-6.
- Orifice die; Preliminary extrudate; Test extrudate; Extrusion plastometer; Load; Melt flow rate; Orifice; *J76A No. 2*, 145-146 (1972). SP305-4.
- ORIGEN; CRBR; Decay heat; ENDF/B-IV fission product; LMFBR; *SP425*, pp. 455-458. SP305-7.
- Oring; Seal; Vacuum; Flange design; *12533*. SP305-4.
- Oring gaskets; Prefabricated manholes; Restrained piping; Accesses; Ball joints; Concrete manholes; Expansion joints; Expansion loops; *BSS66*, pp. 60-72. SP305-7.
- Oring; Pumping processes; Radio astronomy; Silicon monoxide; Circular polarization; Maser; *15004*. SP305-7.
- Oring; Radio astronomy; Dimethyl ether; Internal motion; Interstellar molecules; *15365*. SP305-7.
- Oring; Radio astronomy; Sulfur dioxide; Interstellar; Microwave spectra; Molecules; *16434*. SP305-8.
- Oring A; Radio astronomy; Sulfur monoxide; Zeeman effect; Dense molecular clouds; Magnetic field; *14499*. SP305-6.
- Oringstein-Zernike; Critical exponent  $\eta$ ; Critical point; Critical scattering; Neon; Neutron diffraction; *14584*. SP305-6.
- Oringstein-Zernike correlation function; Correlation length; Critical opalescence; Critical phenomena; Depolarized scattering; Light scattering; *12941*. SP305-4.
- Oringstein-Zernike theory; Percus-Yevick equation; Phase transitions; Potentials of average force; Critical phenomena; Entropy-energy-volume; Fluctuations; Fundamental maximum principle; Generalized Ornstein-Zernike equation; *10966*. SP305-2.
- Oringstein-Zernike theory; Thermal conductivity; Correlation length; Critical point; Gas-liquid; Nonpherical molecules; *16484*. SP305-8.
- Ortho hydrogen; Relaxation time; Nuclear magnetic resonance; *11230*. SP305-2.
- Orthobaric densities; Compressed liquid; Densities; Equation of state; Methane; *J76A No. 2*, 81-101 (1972). SP305-4.
- Orthobaric densities; Parahydrogen; *J70A6-425*, 541-544 (1966). SP305.
- Orthobaric densities; Parahydrogen; Saturated liquid and vapor densities; Coexistence; Coexistence temperatures; Critical constants; Critical density; Critical temperatures; Fluorine; Neon; Oxygen; *J74A No. 2*, 221-227 (1970). SP305-2.
- Orthobaric densities; PVT data; Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; *TN653*. SP305-6.
- Orthobaric densities; PVT data; Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; *NBSIR 73-342*. SP305-6.
- Orthobaric densities; Specific heats of the saturated liquid; Thermofunctions for ideal gas states; Thermophysical properties; Heats of vaporization; Methane; *J75A No. 1*, 15-21 (1971). SP305-3.
- Orthobaric densities; Specific heats; Vapor pressures; Coexistence boundary; Critical point; Ethane; Equation of state; Fluids; Methane; *J79A No. 1*, 71-79 (1975). SP305-7.
- Orthobaric densities; Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies, entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; *NBSIR 74-398*. SP305-7.
- Orthobaric densities; Specific heats; Speeds of sound; Vapor pressure; Densities; Enthalpies; Entropies; Equation of state; Ethane; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; *TN684*. SP305-8.
- Orthoclase, silicate minerals; Silicon aluminum ordering; Aluminum silicate; Feldspar; Neutron refinement; *13693*. SP305-5.
- Orthogonal; Quaternions; Skew-symmetric; Regular representation; Commutator; Matrix; *J71B1-196*, 43-46 (1967). SP305.
- Orthogonal; Skew-symmetric; Anticommuting; Commutator; Factorization; Matrix; *J78B No. 3*, 109-112 (1974). SP305-6.
- Orthogonal; Skew-symmetric; Commutator; Matrix; *J75B Nos. 1 and 2*, 17-21 (1971). SP305-3.
- Orthogonal; Spectrum; Eigenvector; Normal matrix; Numerical range; *16348*. SP305-8.
- Orthogonal functions; Resistance thermometer; Numerical analysis; *13580*. SP305-5.
- Orthogonal group; Orthogonal transformations; Rotation; Rotation group; Rotation-inversions; Conjugacy; Conjugacy theorem; Conjugate rotations; Matrices; *J73B No. 2*, 139-141 (1969). SP305-1.
- Orthogonal group; Tensor; Algebra; Alternating tensor; Capelli's identity; Cartesian tensor; Group representation; Invariant; Isotropic tensor; Kronecker delta; *J79B Nos. 1 and 2*, 49-58 (1975). SP305-7.
- Orthogonal polynomials; Regression; Rounding error; Stepwise regression; Computer programs; Curve fitting; Gram-Schmidt orthogonalization; Householder transformations; Iterative refinement; Least squares; Linear equations; Orthogonalization; *12184*. SP305-3.
- Orthogonal polynomials; Regression; Rounding error; Stepwise regression; Computer programs, Gram-Schmidt orthogonalization; Householder transformations; Least squares; Linear equations; Orthogonalization; *J73B No. 2*, 59-90 (1969). SP305-1.

- Orthogonal polynomials; Regression; Rounding error; Stepwise regression; Computer programs; Curve fitting; Gram-Schmidt orthogonalization; Householder transformations; Iterative refinement; Least squares; Linear equations; Orthogonalization; 11522. SP305-2.
- Orthogonal transformation; Rotation; Rotation matrix; Secular equation; Trace equation; Trace formula; Closed form of rotation matrix; *J.73B No. 3, 215-223 (1969)*. SP305-1.
- Orthogonal transformations; Proper rotations; Rigid rotations; Rotation; Axis and angle of rotation; Coordinate inversion; Coordinate reflection; Improper rotations; Matrices; *J.73B No. 2, 125-138 (1969)*. SP305-1.
- Orthogonal transformations; Rotation; Matrices; *J.72B No. 3, 229-237 (1968)*. SP305-1.
- Orthogonal transformations; Rotation; Rotation group; Rotation-inversions; Conjugacy; Conjugacy theorem; Conjugate rotations; Matrices; Orthogonal group; *J.73B No. 2, 139-141 (1969)*. SP305-1.
- Orthogonality; Polarity; Conjugate functions; Convex cones; Duality; Linear programming; *J.74B No. 2, 99-113 (1970)*. SP305-2.
- Orthogonality relations; Permutation group; Decomposable (or pure) tensor products; Irreducible complex character; *J. Res. 80B No. 2, 259-264 (1976)*. SP305-8.
- Orthogonality relations; Schur function; Associated transformation; Generalized matrix function; group character; Hadamard (Schur) product; Kronecker product; 12659. SP305-4.
- Orthogonality relations; Tensor product; Character of central type; Central idempotent; Frobenius Reciprocity; Group algebra; *J.77B Nos. 3 and 4, 93-99 (1973)*. SP305-5.
- Orthogonalization; Orthogonal polynomials; Regression; Rounding error; Stepwise regression; Computer programs; Curve fitting; Gram-Schmidt orthogonalization; Householder transformations; Iterative refinement; Least squares; Linear equations; 12184. SP305-3.
- Orthogonalization; Orthogonal polynomials; Regression; Rounding error; Stepwise regression; Computer programs, Gram-Schmidt orthogonalization; Householder transformations; Least squares; Linear equations; *J.73B No. 2, 59-90 (1969)*. SP305-1.
- Orthogonalization; Orthogonal polynomials; Regression; Rounding error; Stepwise regression; Computer programs; Curve fitting; Gram-Schmidt orthogonalization; Householder transformations; Iterative refinement; Least squares; Linear equations; 11522. SP305-2.
- Orthogonalized plane wave (OPW); Pseudopotential; Beryllium; Knight shift; *SP323, p. 649*. SP305-4.
- Orthogonalized plane wave (OPW) method; Silicon; Soft x-ray emission; Carbon; Diamond; Electronic density of states; Germanium; Kp method; *SP323, pp. 335-337*. SP305-4.
- Orthogonalized plane waves; Alloys; Charge impurity screening; Hyperfine fields; Knight shift; Noble metals; 10615. SP305-1.
- Orthogonalized plane waves; Alloys; Charge impurity screening; Hyperfine fields; Knight shift; Noble metals; 11472. SP305-2.
- Orthohydrogen; Parahydrogen; Translational absorption; Absorption coefficient; Absorption mechanisms; Infrared; Liquid hydrogen; 11504. SP305-2.
- Orthopaedic material; Poly(methyl methacrylate); Specification; Surgical bone cement; Biomaterial; Bone cement; 15191. SP305-7.
- Ortho-para; Relaxation time;  $T_1$ ; Analyzer; Cryogenics; Hydrogen; Instrument; Instrumentation; Liquefier; Liquid hydrogen; Measurement; Nuclear spin relaxation time; 9486. SP305.
- Orthopara composition; Parahydrogen; Refractive index; Clausius-Mossotti function; Lorentz-Lorenz function; Molecular polarizability; 10906. SP305-2.
- Ortho-para modifications; Property value uncertainties; Solid; Solid hydrogen; Tables; Computer programs; Gaseous hydrogen; Graphs; Handbook thermophysical properties Hydrogen; Liquid hydrogen; 15382. SP305-7.
- Ortho-para transitions; Radio frequency; Group theory; Inversion splitting; Methane; Molecular-beam data; 12323. SP305-3.
- Orthopedic materials; Polymethylmethacrylate, self-curing; Surgical bone cement; Total hip replacement, cement; Acrylic resin; Cement; Medical materials; 15164. SP305-7.
- Orthopedics, metals; Titanium alloys; Alloys-aluminum; Aluminum alloys; Magnesium alloys; 10024. SP305-1.
- Orthorhombic form; Polymorphism; Tetragonal form;  $Ba_2O$ ; Heats of transformation; *J.73A No. 6, 615-620 (1969)*. SP305-1.
- Orthohelaphonic response; Anthropometric manikin; Free-field measurements; Hearing aid tests; 16033. SP305-8.
- ortho-xylene; Torsional vibration; Far infrared; 14521. SP305-6.
- OS AIDS; RTOS; Software; Debugging; Interdata 70; 15536. SP305-7.
- Osozanes; Phenylhydrazones; Alkaline solution; Chemical changes; Electron spin resonance; Free radical mechanism Nitroxide radical; 14065. SP305-6.
- Oscillating-disk cure meter; Processability; Rubber testing Standardization; Vulcanization; Cure meter; Mooney viscometer; 14431. SP305-6.
- Oscillations; Choking; Critical; Fluid; Fluid flow; Heat transfer; 11745. SP305-2.
- Oscillations; Choking; Critical; Fluid flow; Heat transfer; 11322. SP305-2.
- Oscillations; Perron-Frobenius theory; Rate of natural increase; Stable population; Eigenvalue; Net reproduction rate; *J.78 No. 2, 73-78 (1974)*. SP305-6.
- Oscillations; Pomeranchuk; Shrinkage; Theorem; Asymptotic Elastic; 16249. SP305-8.
- Oscillations; Resonances; Stellar; Binary; Gravity mode Nonadiabatic; 15282. SP305-7.
- Oscillations; Superconductors; Theory; Computations; Cooler system; Cryogenics; Electric power transmission; Flow stability; Helium; 15809. SP305-8.
- Oscillator; Low frequency oscillator; 11554. SP305-2.
- Oscillator; Strengths; Sum rules; Vacuum ultraviolet; Electronic energy losses; Germanium;  $M_{IV,V}$  edge; Optical constant; 11367. SP305-2.
- Oscillator calibration; Big G; Bolometer calibration; Earthquake prediction; Frequency standard systems; Heat-pipe oven; Hoover; Liquefied natural gas; Magnetometer; Mechanical failure; Microwaves; *DIM/NBS 58, No. 8, 169-192 (1974)*. SP305-6.
- Oscillator calibration; Phase comparison; Television receiver; Color subcarrier; Frequency calibration; Frequency comparator; Frequency measurements; *U.S. Patent 3,958,269*. SP305-8.
- Oscillator correction; Time synchronization; VLF propagation; Flicker noise; Meteor burst; Multi-loop servo; 9710. SP305-1.
- Oscillator force constants; Potential values; Transition probabilities vs. energy values; Translational-vibrational energy transfer; Atom-diatom transitions; Data tables; Distorted wave calculations; Exact quantum mechanical calculation; *NBS-OSRDB-70-3 (AD705110)*. SP305-3.
- Oscillator, marginal; UHF marginal oscillator; Density, magnetic flux; Flux density; Magnetic flux density; Marginal oscillator; 10035. SP305-1.
- Oscillator noise; Phase noise; Radio frequency power spectral density; Script  $\mathcal{L}(\Omega)$ ; Script  $\mathcal{M}(\Omega)$ ; Script  $\mathcal{N}$ ; Sidebands; Signal stability; Spectral density; Amplitude fluctuations; Cross spectral density; Frequency domain; Frequency noise; 1403. SP305-6.



oscillator noise models; Phase noise spectral density; Quartz crystal oscillator; Time domain stability; Allan variance; Flicker of phase noise; Frequency stability; 12383. SP305-4.

oscillator stability; Flicker noise; Frequency stability; Noise measurement; 14827. SP305-7.

oscillator strength; Acetone vapor; Electron energy-loss spectroscopy; 14130. SP305-6.

oscillator strength; Configurational mixing;  $C_2H_4$ ; Differential cross section; Electron impact; Excitation; 1545. SP305-2.

oscillator strength; Electron; Electron scattering; Energy loss; Methane; *n*-hexane; 15444. SP305-7.

oscillator strength; Electron energy-loss spectroscopy; Naphthalene vapor; Rydberg states; 13210. SP305-5.

oscillator strength; Perturbation theory; Systematic trend; Nuclear charge; 11194. SP305-2.

oscillator strength; Photoionization; Single electron; Hartree-Fock methods; 16378. SP305-8.

oscillator strength; Plasmon; Aluminum oxide; Characteristic energy loss; Cross section; Dielectric constant; 10439. SP305-1.

oscillator strength; Relative measurements; Transition probabilities; Wall-stabilized arc; Line strength; Nickel-carbonyl; Ni I and Ni II; 9573. SP305-1.

oscillator strength; Relativistic corrections; Spectroscopy; Dirac theory; Hydrogen; Line strength; J79A No. 5, 629-633 (1975). SP305-7.

oscillator strength; Rydberg state; Valence state; CO; CO<sub>2</sub>; Electron impact; Fourth positive bands; 12327. SP305-3.

oscillator strength; Series perturbations; Configuration interaction; 11182. SP305-2.

oscillator strength; Spectra distribution; X-ray; Absorption; light; 10934. SP305-2.

oscillator strength; Sulfur hexafluoride; Ultraviolet absorption cross section; Forward inelastic electron scattering; 10074. SP305-1.

oscillator strength; Transition moment; Ab initio calculation; D<sub>2</sub> absorption; 15872. SP305-8.

oscillator strength; Transition probabilities; Wall-stabilized arc; Arc plasma; Iron; Lifetimes; 15411. SP305-7.

oscillator strength; U I; U II; U II; Wall-stabilized arc; Flow-stabilized arc; 15066. SP305-7.

oscillator strength; Wavelengths; Analysis; Atomic absorption; Beer-Lambert law; Continuum source; Curve of growth; 0684. SP305-1.

oscillator strength distribution; Oscillator strengths; Systematic trends; F-sum rule; F-values; Lithium sequence; 15474. SP305-7.

oscillator strength distribution; Oscillator strengths; Relativistic effects; Spectral series; Systematic trends; Continuum; Discrete spectrum; f-sum rule; f-values; Lithium sequence; 5817. SP305-8.

oscillator strength (f-value); Optical depth; Oxygen II; Plasma; tube; Carbon II; Coulomb approximation; Electron density; Electron temperature; Equivalent electrons; Local thermal equilibrium; 9388. SP305.

oscillator strengths; Acetone; Energy loss spectra; Ethanol; Methanol; 14608. SP305-6.

oscillator strengths; Atomic lifetimes; Atomic spectra; Configuration interaction; 12123. SP305-3.

oscillator strengths; Electron energy loss; Low energy electron impact; N<sub>2</sub>O; 15467. SP305-7.

oscillator strengths; Far uv absorption; Inelastic electron scattering; Nitrous oxide; 12225. SP305-3.

oscillator strengths; Methyl radicals; Methylene; Spectroscopy; vacuum UV; 12290. SP305-3.

oscillator strengths; Oxygen; Electron energy-loss; 15152. SP305-7.

oscillator strengths; Oxygen; Transition probabilities; Energy loss; O<sub>2</sub>; 15999. SP305-8.

Oscillator strengths; Phosphorus; Potassium; Silicon; Sodium; Sulfur; Transition probabilities; Allowed and forbidden transitions; Aluminum; Argon; Calcium; Chlorine; Magnesium; NSRDS-NBS22. SP305-1.

Oscillator strengths; Quantum efficiencies; Radiative rates; Rare earths; Silicate glasses; Europium; Fluorescence; Lifetimes; Luminescence; Nonradiative rates; 14276. SP305-6.

Oscillator strengths; Quantum mechanics; Spectroscopy; Transition probabilities; Wave functions; Ions; 16209. SP305-8.

Oscillator strengths; Quasi particle density of states; X-ray emission and absorption; Density of states; Interacting electrons; One-particle Green function; SP323, pp. 233-247. SP305-4.

Oscillator strengths; Quasi particle density of states; X-ray emission and absorption; Density of states; Interacting electrons; One-particle Green function; J74A No. 3, 417-431 (1970). SP305-2.

Oscillator strengths; Radiative transition probabilities; Spectra; Atomic physics; Atomic structure; 14768. SP305-7.

Oscillator strengths; Relativistic effects; Spectral series; Systematic trends; Continuum; Discrete spectrum; f-sum rule; f-values; Lithium sequence; Oscillator strength distribution; 15817. SP305-8.

Oscillator strengths; Relativistic effects; Spectral series; Systematic trends; f-values; Isoelectronic sequence; Lithium sequence; JPCRD 5, No. 3, 537-570 (1976). SP305-8.

Oscillator strengths; Scandium; Titanium; Transition probabilities; Allowed transitions; Line strengths; J. Phys. Chem. Ref. Data 4, No. 2, 263-352 (1975). SP305-7.

Oscillator strengths; Series perturbations; Atomic spectra; Atomic wave functions; 14351. SP305-6.

Oscillator strengths; Spectra; Electron; Energy loss; Methane; *n*-hexane; 15443. SP305-7.

Oscillator strengths; Spectra; Electron; Energy loss; 15445. SP305-7.

Oscillator strengths; Spectra; Electron; Energy loss; Molecular oxygen; 15446. SP305-7.

Oscillator strengths; Spectra, atomic; Terbium; Transition probabilities; 10739. SP305-1.

Oscillator strengths; Spectral lines of Cu I; Atomic spectra; Copper; Cu I; J74A No. 6, 781-790 (1970). SP305-2.

Oscillator strengths; Spectroscopy; Wave functions; Correlation; Energy levels; 13928. SP305-6.

Oscillator strengths; Spectrum; Spectrum of neutral iron; Transition probabilities in Fe I; Fe II; Iron; Monogr. 108. SP305-1.

Oscillator strengths; Spectrum; Transition probabilities; Arc; Iron; 11722. SP305-2.

Oscillator strengths; Superposition of configurations; Wavefunctions; Atomic energy levels; 10294. SP305-1.

Oscillator strengths; Superposition of configurations; Wave functions; Energy levels; 11606. SP305-2.

Oscillator strengths; Systematic trends; F-sum rule; F-values; Lithium sequence; Oscillator strength distribution; 15474. SP305-7.

Oscillator strengths; Temperature in stars; Turbulence in stars; Abundances of elements in stars; Ba II stars (ζ Capricorn); Curve of growth; Equivalent widths; Identification of spectral lines; Ionization in stars; Monogr. 119. SP305-3.

Oscillator strengths; Ti I; Ti II; Ti III; Arc; Experimental; 15023. SP305-7.

Oscillator strengths; Transition probabilities; Ba I; Ba II; Line strengths; 12662. SP305-4.

Oscillator strengths; Transition probability; Ultraviolet lines of Fe I; Atomic spectra; Iron; J70A4-409, 325-371 (1966). SP305.

Oscillator strengths; Transition probabilities; Astrophysics; f-values; 14051. SP305-6.

Oscillator strengths; UV; Electron energy loss; N<sub>2</sub>O; 15998. SP305-8.

- Oscillator strengths**; Wall-stabilized; Arc; *f*-values; Iron; 12746. SP305-4.
- Oscillator strengths**; Wavefunctions; Atomic term value; J.71A2-448, 163-168 (1967). SP305.
- Oscillator strengths**; Wavelengths; Atomic spectra; Lifetimes; 12985. SP305-4.
- Oscillator strengths**; X-ray mass absorption coefficients;  $\gamma$ - $\text{Al}_2\text{O}_3$ ; Aluminum; Amorphous  $\text{Al}_2\text{O}_3$ ; Cross sections; Electron energy loss spectra; L-shell electrons; 10609. SP305-1.
- Oscillator strengths for U I**; Transition probabilities for U I; Uranium spectrum; Lifetimes in U I; *J. Res.* 80A No. 1, 1-7 (1976). SP305-8.
- Oscillator strengths for U II**; Transition probabilities for U II; Uranium spectrum; *J. Res.* 80A No. 3, 429-438 (1976). SP305-8.
- Oscillators**; Phase noise; Stationary models; Flicker noise; Frequency; Frequency stability; TN683. SP305-8.
- Oscillators**; Semiconductor; Solid state; Amplifiers; Basic characteristics; Microwave; TN597. SP305-3.
- Oscillators**; Solid-state; Amplifiers; Basic characteristics; Microwave; TN518. SP305-2.
- Oscillatory**; Positive definite; Principal minor; Routh-Hurwitz conditions; Sign stable; Sign symmetric; Stability; Triagonal; Diagonally dominant; Diagonal matrix; *D*-stability; Gersgorin's theorem; Lyapunov's theorem; *M*-matrix; 14782. SP305-7.
- Oscillatory dielectric function**; Electro-absorption techniques; Electrorreflectance; Franz-Keldysh theory; Germanium; SP323, pp. 417-421. SP305-4.
- Oscillatory flows**; Permeability; Ripple; Sand transport; 15145. SP305-7.
- Oscillatory magnetoresistance**; Shubnikov-de Haas effect; Strontium titanate; Band structure; High magnetic field; 9725. SP305-1.
- Oscillatory water tunnel**; Permeability effect on sand transport; Ripples, sand; Sand motion under waves; Beach accretion; Coastal processes; Offshore zone; 15793. SP305-8.
- Oscillographic systems**; Pulse comparison techniques; Pulse rise-times; Baseband pulse rise-times; Basic instrumentation system; Fractional nanosecond pulse rise-times; 9962. SP305-1.
- Oscilloscope**; Peak voltage; Pulse; Sampling; Slideback; Standard; 9972. SP305-1.
- Oscilloscope**; Photoconductor; Picosecond; Sampling; Sampling oscilloscope; Strobe; GaAs; Laser; Optical; 15835. SP305-8.
- Oscilloscope**; Photoconductor; Pulse measurements; Sampling; Laser; Optical pulse; 16193. SP305-8.
- Oscilloscope**; Picosecond; Pulse; Random sampling; Rise-time; Sampling; Time base; Transition time; Mercury switch; 13799. SP305-5.
- Oscilloscope**; Picosecond; Pulse; Random sampling; Rise-time; Sampling; Transition time; Mercury switch; 14262. SP305-6.
- Oscilloscope**; Picosecond; Slow-wave; Traveling-wave; Cathode ray tube; CRT; Deflection; Electron beam; GHz; 12566. SP305-4.
- Oscilloscope**; Pulse generator; Sweep generator; Time base; Traveling wave oscilloscope; High voltage pulse; Nanosecond; 12481. SP305-4.
- Oscilloscope**; Standard; Strip-line; Transfer function; Deflector; Drift space; J.72C No. 2, 117-125 (1968). SP305-1.
- Oscilloscope errors**; Pulse generators; Standard waveforms; Lossy uniform transmission lines; 12045. SP305-3.
- Oscilloscopes**; Calibration and maintenance manhours; Digital counters; Digital voltmeters; Exchange program on costs; SP335, pp. 51-55. SP305-3.
- Oscilloscopes**; High-speed measurements; High-speed recording; TN539. SP305-2.
- Oscilloscopes**; Pulse; Pulse generators; Pulse measurement; Transmission lines; 15304. SP305-7.
- Oscilloscopes**; Pulsed wavemeter timing; 15647. SP305-7.
- Oscilloscopes**; RX meters; Vacuum-tube voltmeters; Calibration histories; Equal likelihood; SP335, pp. 81-84. SP305-3.
- OSCI**; Photodissociation; SO; Vacuum ultraviolet; Heat of formation; 12739. SP305-4.
- Osmium**; Field-ion microscopy; 13246. SP305-5.
- Osmium**; Platinum; Rhenium; Tantalum; Thallium; Tungsten; Wavelengths; Ytterbium; Bismuth; Gold; Hafnium; Ionization energies; Iridium; Lead; Lutetium; Mercury; 16420. SP305-8.
- Osmium alloys**; Platinum alloys; Transition elements; All phases; Atomic ordering; A15-type phases; Chromium alloy; Electron compounds; Intermediate phases; Nonstoichiometric phases; 9517. SP305.
- Osmium, palladium**; Platinum; Rhodium; Ruthenium; Thermodynamic properties; Calorimetry; Critically evaluated data; Debye temperature ( $\theta$ ); Electronic coefficient of heat capacity ( $\gamma$ ); *J. Phys. Chem. Ref. Data* 3, No. 1, 163-209 (1974). SP305-6.
- Osmium tetroxide**; Vibration-rotation; Coriolis constant; For field; Infrared; 9349. SP305.
- Osmometer**; Osmotic pressure; Semipermeable membrane; High speed osmometer; Number-average molecular weight; 11185. SP305-2.
- Osmometer**; Osmotic pressure; Virial coefficient; Concentration dependence; Linear polyethylene; Membrane; Number-average molecular weight; J.76A No. 2, 161-163 (1972). SP305-4.
- Osmometry**; Refractive index; Standard reference material; Viscosity; Weight average molecular weight; Z average molecular weight; Density; Differential refractive index; Chromatography (GPC); Light scattering; Linear polyethylene; SP260-42. SP305-4.
- Osmometry**; SRM 705; SRM 706; SRM 1475; SRM 1476; Characterization; Gel permeation chromatography; Light scattering; Molecular weight; Molecular weight distribution; 12513. SP305-4.
- Osmotic coefficients**; Activity coefficients; Critically evaluated data; Excess Gibbs energy for electrolytes; *J. Phys. Chem. Ref. Data* 1, No. 4, 1047-1100 (1972). SP305-6.
- Osmotic coefficients**; Nonlinear least squares; Thermodynamic properties; Vapor pressure; Activity coefficients; Aqueous computer programs; Data evaluation; Electrolytes; Electromotive force; Isoopiestic method; TN928. SP305-8.
- Osmotic coefficients**; Potassium chloride; Vapor pressure; Activity coefficient; Calcium chloride; Isoopiestic measurements; Mixed salt solutions; J.72A No. 3, 239-245 (1968). SP305-1.
- Osmotic pressure**; Poly(*n*-alkyl isocyanates); Radii of gyration; Second virial coefficients; Configuration; Conformation; Kratky-Porod model; Light scattering; 12355. SP305-3.
- Osmotic pressure**; Quantum fluid; Specific heat; Thermodynamic properties; Cryogenics; Dilution refrigerator; Enthalpy; Entropy; Fermi-Dirac gas; Helium-3; Helium-4; Liquid; Mixtures; TN362. SP305.
- Osmotic pressure**; Semipermeable membranes; High speed osmometer; Number-average molecular weight; Osmometer; 11185. SP305-2.
- Osmotic pressure**; Virial coefficient; Concentration dependence; Linear polyethylene; Membrane; Number-average molecular weight; Osmometer; J.76A No. 2, 161-163 (1972). SP305-4.
- Oso triazole**; Parabromophenyl; Preparation; Spectra; Study; Infrared; Inositol; 12450. SP305-4.
- OSRM**; Pure cadmium; Superconductive transition temperature; Superconductive transition width; Thermometric film; point; 15342. SP305-7.
- OSRM**; Pure elements; Superconductivity; Thermometric film; points; Calibration techniques; Cryogenic temperature scale; 12988. SP305-4.

SRM; Superconductive devices; Superconductive transition temperature; Superconductivity; Temperature scale; Fixed points; 13591. SP305-5.

-stars; Radiative transfer; Stellar atmospheres; Astrophysics; Energy loss; 14144. SP305-6.

-stars; Si iv; Spectra; Stellar; Ultraviolet; Absorption; B-stars; C iv; 16271. SP305-8.

-stars; Stellar atmospheres; Stellar spectra; Dielectronic recombination; Doubly ionized nitrogen; Emission lines; 13430. SP305-5.

terphenyl; Residual entropy; Viscosity; Vitreous state; Calorimetry; Configurational entropy; Glass; Heat capacity; 12520. SP305-4.

outdoor lighting criteria; Performance criteria; Process description; University facilities; Acoustical environment; Administrative procedures; Communication; Environmental criteria; Functional criteria; Interior finishes criteria; SP361, Vol. 1, pp. 331-337. SP305-4.

outdoor noise; Acoustics (sound); Environmental acoustics; Instrumentation; Noise monitoring; NBSIR 75-962. SP305-7.

utgassing; Polymeric materials; Residual gas analysis; Test facility; Vacuum; Chemical analysis; Contamination; Organic residues; SP336, pp. 1-24. SP305-3.

utgassing; Pressure measurements; Rock mechanics; Space environment simulation; Ultrahigh vacuum; Anisotropy; Compression tests; Mass spectroscopy; Mechanical properties; SP336, pp. 209-233. SP305-3.

utgassing; Quartz crystal microbalance; Solar panels; Space; Sputtering; Surface contamination; Cleaning; Desorption; Ions; SP336, pp. 113-127. SP305-3.

utgassing; Simulation; Sublimation; Thermal conduction; Thermal vacuum tests; Volatile constituent; Volatilization; Absorption; Adsorption; "Bake-out"; Components; Decomposition; Degassing; Environment; Evaporation; SP336, pp. 473-485. SP305-3.

utgassing; Thermal insulation; Thermal-vacuum chambers; Evacuation; Heat transmission; Infrared scanning; Mars environmental simulation; SP336, pp. 725-748. SP305-3.

utgoing data; Partial differential equations; Hyperbolic system; Mixed initial boundary; 11026. SP305-2.

utliers; Perpendicular polarization; Quasi-optics; Reflection coefficient; Transverse displacement; Vector solution; Approximation errors; Complex dielectric constant; Convergence confidence interval; Contour diagrams; Dielectric liquid; Diffraction; TN369. SP305-1.

utlines; Scales; Tests; Codes; Examination procedure; Inspection; Meters; H112. SP305-5.

utput energy; Pulsed laser; Calorimetric measurement; Laser, pulsed; 9806. SP305-1.

utput modes; Photocomposition and typesetting; Storage hierarchies; Time sharing; Computer-assisted-instruction; Information display; Information recording; Machine-aided design; Memory allocation; Microforms; Multiple-access systems; Monogr. 113, Volume 2. SP305-2.

utput resistance; Power dissipation; Power supply; Preregulator; Regulation factor; Ripple voltage; Transistor; Voltage regulation; Zener diode; D-C amplifier; Design equations; Differential amplifier; Dual regulator; Integrated circuit; TN371. SP305-1.

utside air wet bulb; Power savings; Refrigeration production; Tons; Amps; Condenser water; Economy; Energy input; 2798. SP305-4.

utside diameter; Pipe; Polyethylene (PE); Schedule size (40 and 80); Dimensions; Materials; PS12-69. SP305-2.

utside diameter dimensions; Pipe; Standard dimension ratio (SDR); Acrylonitrile-butadiene-styrene (ABS); PS19-69. SP305-2.

utside wall; Ventilation; Wind; Air inlet; Discomfort index; Draft; TN710-6. SP305-5.

Oven; Absorption spectroscopy; Heat pipe; Metal vapor device; 11521. SP305-2.

"Over-all" yield; Radiochemical analysis; Random errors; Systematic errors; Thorium chemical yield; Bio-assay; Carbon-14; Detection efficiency; Isotope dilution; 9652. SP305-1.

Overcoating; Plasmons; Scatter; Absorption; Dielectric layers; Irregularities; Metallic thin films; Microirregularities; J. Res. 80A No. 4, 643-658 (1976). SP305-8.

Overcomplete states; Adsorbed molecules on metal surfaces; Anderson Model; Energy distribution of field emitted electrons; Field emission theory; Metal surface; 14155. SP305-6.

Overcompression; Supercooling; Glassy state; Lennard-Jones system; Monte Carlo simulation; Nucleation; J. Res. 80A No. 1, 59-64 (1976). SP305-8.

Overcurrent; Overcurrent protection; Solid-state overcurrent protection circuit; Transformer; Transformer overcurrent protection; High voltage transformer protection; 16381. SP305-8.

Overcurrent protection; Solid-state overcurrent protection circuit; Transformer; Transformer overcurrent protection; High voltage transformer protection; Overcurrent; 16381. SP305-8.

Overestimation of standard deviation; Second law heat; Slope estimators; Third law heat; Vapor pressure; Bias of least squares estimators; Coefficient of variation; Correlated estimators; Enthalpy adjustments; J.70A6-424, 533-539, (1966). SP305.

Overexcitation; Phosphorus; Spectrometry; Sulfur; Triple pass on-axis; Flame; Hydrogen; Long-path burner; Multichannel spectrometer; Non-metals; 12658. SP305-4.

Overfalls; Hydraulic measurements; Open-channel flow; 13301. SP305-5.

Overflow counter; Multichannel scaler; Nuclear instrumentation; 12173. SP305-3.

Overflow counter; Photonuclear reactions; Proportional counter; Quantitative Mössbauer spectrometry; Standard reference materials; Backscatter geometry; Computer programs for Mössbauer spectrometry; Computers; Corrosion products; TN451. SP305-1.

Overgrade; Sedimentation; Sieve; Standard sieve; Abrasive grain; Accumulation curve; Coated abrasive products; Grain, abrasive; Micron; PS8-67. SP305.

Overhead; Resource allocation; Simulator; Strategies; Workload; FORTRAN IV; Operating system; 16062. SP305-8.

Overhead; Suboptimization; Subsystem measurement; Variability; Distribution; Low utilization; SP406, pp. 45-52. SP305-7.

Overheated receptacle; Scanning electron microscope; Aluminum wire; Nondispersive x-ray analysis; 16317. SP305-8.

Overlap; Topological; Validation; Chemical structure diagrams; Computer storage; Display; Geometric; Grammar; Input; Labeled graph; 12682. SP305-4.

Overlap function W; Overlapping configuration; Binary collision expansion; Binary collision operator; Hard sphere dynamics; N-body dynamics; 11499. SP305-2.

Overlapping configuration; Binary collision expansion; Binary collision operator; Hard sphere dynamics; N-body dynamics; Overlap function W; 11499. SP305-2.

Overlapping resonances; Resonances; Resonant scattering; Autoionization; Configuration interaction; Electron scattering; Photoionization; 11226. SP305-2.

Overlapping spectra; Soft x-ray spectra of alloys; Temperature broadening; Ti-Al system; TiNi; Absorption correction; Density of states; Lifetime broadening; Nickel; 10533. SP305-1.

Overlay; Plywood; Stress test; Vacuum and pressure test; Adhesives; Boil test; Bonding; Exterior; Grading; Interior; Moisture content; PS1-66. SP305.

Overlay; Segmentation; System parameters; Transportable computer programs; ANSI FORTRAN; Double precision; General-purpose computer program; Implementation of OM-

- NITAB II; Labeled common; Machine independent; OM-NITAB II; *TN550*. SP305-2.
- Overlay procedures; SCOPE operating system; Segmentation; ANSI FORTRAN; General-purpose computer program; Implementation of OMNITAB II; Links; OMNITAB II; *TN734*. SP305-4.
- Overload testing; Self-balancing current comparator; Transformer; Wide-range; Calibration; Current comparator; Current transformer; *12256*. SP305-3.
- Overpotential; Solid electrolyte; Electrode polarization; Impedance measurements; Interfaces; Ionic conductivity; *15819*. SP305-8.
- Overseas; Microfilm; Libraries; Microfiche; *14529*. SP305-6.
- Overturning moments; Wind loads; Wind tunnel modeling; Boundary layer; Buildings; Pressure fluctuations; Instrumentation; *BSS30*, pp. 45-59. SP305-3.
- Overview; Program descriptions; National Bureau of Standards; Organization; *SP367*. SP305-4.
- Ovulation-detection; Open heart surgery; Pediatric surgery; Pyrogens; Sweating; Temperature, central body; Thermocouple disconnect; Thermoelectric thermometry; Thermometer; Vasodilation; Warm sensitive neurons; Anesthesiology; Brain temperature; *13631*. SP305-5.
- Oxalic acid coulometer; Benzoic acid coulometer; Electrochemical equivalent; Faraday; *11215*. SP305-2.
- Oxazine dyes; Quenching; Xanthene dyes; Aminocoumarins; Carbazine dyes; Deuterium effect; Fluorescence quantum yield; Laser dyes; Molecular structure; *J. Res.* **80A** No. 3, 421-428 (1976). SP305-8.
- Oxetane formation in oxidation; Oxidation; Peroxy radicals; Radical isomerization; Surface effects in oxidation; Termination rates; Transition state for termination; Acetylene reaction with  $O_3$ ; Activation energy for oxidation; *SP357*, pp. 121-129. SP305-4.
- Oxidant-fuel; Protective chelation; Releasing agent; Atomic absorption; Atomic fluorescence; Flame emission; Flame temperature; Interference; *11428*. SP305-2.
- Oxidation; Active; Chemistry; Dioxide; Heterogeneous; Manganese; Organic; *15902*. SP305-8.
- Oxidation; Anodization; Corrosion; *13606*. SP305-5.
- Oxidation; Bromine; Inositol; Inosose phenylhydrazine; Inosose phenylazone; Mutarotation; *10937*. SP305-2.
- Oxidation; Diethylamine; Diethyl nitroxide; Dimethylamine; Dimethyl nitroxide; Electron spin resonance; Free radicals; *10248*. SP305-1.
- Oxidation; Emission microscopy; Field-emission; Nickel surfaces; *10619*. SP305-1.
- Oxidation; Oxidation theory; Parabolic law for metal oxidation; Semiconductors; Conductivity; Electric field effects; Insulating films; Insulators; Metal oxidation; Metals; MOM devices; *16260*. SP305-8.
- Oxidation; Oxygen; Oxygenated organic compounds; Ozone; Bibliography; Chemical kinetics; Combustion; Free radicals; Gas phase; Hydrocarbons; *SP449*. SP305-8.
- Oxidation; Oxygen; Tungsten; Adsorption; Chemisorption; Desorption; Electron stimulated desorption; *12791*. SP305-4.
- Oxidation; Oxygen; Tungsten; Tungsten oxides; Adsorption; Chemisorption; Corrosion; Flash desorption; *12405*. SP305-4.
- Oxidation; Oxygen; Tungsten; Tungsten oxides; Adsorption; Chemisorption; Flash desorption; *14461*. SP305-6.
- Oxidation; Oxygen atom; Low temperature chemistry; Olefins; *9793*. SP305-1.
- Oxidation; Oxygen atom; Propylene; 1-butene; Low temperature chemistry; Olefins; *10377*. SP305-1.
- Oxidation; Parameter jump method; Polystyrene; Relaxation methods; Thermogravimetry; Weight-loss; Degradation; Kinetics; *15858*. SP305-8.
- Oxidation; Pararosaniline cyanide; Radiochromic dyes; Triphenylmethane dyes; Dosimetry; Dyes; Gamma rays; Nitrobenzene; *13533*. SP305-5.
- Oxidation; Periodates; Review; Application; Bio-organic Methods; Organic; *14154*. SP305-6.
- Oxidation; Periodic acid; Coupling; Dialkylphenols; Dimethylformamide; Hindered; *13643*. SP305-5.
- Oxidation; Peroxy radicals; Polyolefins; Polypropylene; Alkoxy radicals; Carbonyl compounds; Chain initiation; Chain propagation; Chain termination; Kinetics; *SP357*, pp. 95-99. SP305-4.
- Oxidation; Peroxy radicals; Radical isomerization; Surface effects in oxidation; Termination rates; Transition state for termination; Acetylene reaction with  $O_3$ ; Activation energy for oxidation; Chain lengths in oxidation; *SP357*, pp. 121-129. SP305-4.
- Oxidation; Phase relations; Ru- $Ir-O_2$  system;  $RuO_2-IrO_2$  system; Solid solution; Dissociation; *J.73A* No. 2, 213-219 (1969). SP305-1.
- Oxidation; Phenylazone; Crude inosose; Enols; Formation; Isositol; *10940*. SP305-2.
- Oxidation; Plastics; Ultraviolet analysis; Weathering; Color at gloss measurements; Colorimetric analysis; Infrared analysis; *10554*. SP305-1.
- Oxidation; Platinum; Platinum-rhodium alloy; Preferential oxidation; Temperature gradient; Thermal gradient; Thermocouple; Thermoelectric stability; Aging; Calibration; change; Gradient; High temperature (700 to 2000 °C); Iridium; Iridium-rhodium alloy; *16158*. SP305-8.
- Oxidation; Polymers; Pyrolysis; Burning; Hydrocarbons; Organic materials; *SP357*. SP305-4.
- Oxidation; Population distribution; Rotation; Acetylene; Chemiluminescence; Cross section; Emission spectrum; Energy transfer; Experimental; Gas; Oxygen atom; *9288*. SP305-5.
- Oxidation; Psicoses; Reduction; Ruthenium tetraoxide; Sodium borohydride; Acetals; Fructose; Ketoses; *12121*. SP305-3.
- Oxidation; Purification; Annealing; Copper; *14186*. SP305-6.
- Oxidation; Pyrolysis; Combustion; Data base; Energy conservation; Estimation schemes; Kinetics; Modeling; *NBSIR 75-91*. SP305-8.
- Oxidation; Pyrolytic graphite; Chemical anisotropy; Chemisorption; *J.74A* No. 3, 325-330 (1970). SP305-2.
- Oxidation; Quantitative; Radical; Reagent; Determination; Electron-transfer; Inosose; *12151*. SP305-3.
- Oxidation; Reagent; Review; Active; Manganese dioxide; Organic chemistry; *15880*. SP305-8.
- Oxidation; Silicon nitride; Silicon oxynitride;  $Si_3N_4$ ; cristobalite; Electron microscopy; *15452*. SP305-7.
- Oxidation; Silicon nitride; Slow crack growth experiments; Cristobalite; Deformation; Electron microscopy; Microstructure; *NBSIR 76-1153*. SP305-8.
- Oxidation; Softening point; Sulfur dioxide; Asphalt flux; Carbonyl absorbance; Coating-grade asphalt; Infrared analysis; Nitrogen oxides; *10468*. SP305-1.
- Oxidation; Stress corrosion; Tarnish film; Copper; Cup acetate; Kinetics; *12493*. SP305-4.
- Oxidation; Surface characterization; Ellipsometry; Field-emission; Low-energy-electron diffraction; Microscopy; Optical constants; *11397*. SP305-2.
- Oxidation; Thermal regeneration; Ellipsometer; Iron; *1089*. SP305-1.
- Oxidation; Thermogravimetric analysis; Carbon black; Cures; Elastomer compounds and vulcanizates; *SP338*, 165-185. SP305-2.
- Oxidation; Thickness measurements; Corrosion; Electrochemistry; Ellipsometry; *14676*. SP305-6.
- Oxidation kinetics; Oxide structure; Surface potential; Ellipsometry; Low energy electron diffraction; Metal oxidation; *14426*. SP305-6.
- Oxidation mechanism; Oxidation theory; Antioxidants; Initiation of oxidation; Initiation of oxidation; *SP357*, pp. 73-79. SP305-4.



idation of metals; Solid state diffusion; Transport in solids; Electrochemistry; Gibbs-Duhem; Local equilibrium; Nonequilibrium thermodynamics; 14286. SP305-6.

idation of polycyclic aromatic hydrocarbons; Sugars in solution; Conformational analysis; Carbon-14- and tritium-labeled carbohydrates; Large-scale paper chromatography; Phenylhydrazono-phenylazo tautomerism; Cyclopentitols and related substances; *TN405*. SP305.

idation of polycyclic aromatic hydrocarbons; Phenylhydrazono-phenylazo tautomerism; Quebrachitol, levo-isitol; Standard reference materials; 1,2,0-isopropylidene- $\beta$ -idofuranoside; 2,3,0-isopropylidene- $\beta$ -d-threo-pentulofuranoside; Air pollution studies; *TN427*. SP305.

idation of tungsten; Ellipsometry; Low-energy-electron-diffraction rate; Stibinic acid; Trimethylarsine; Trimethylstibine; Antimony; Antimony oxide; Arsenic; Arsenic acid; Iomethylation; Cacodylic acid; Diffusion; Flame retardant; 6628. SP305-8.

idation reactions; Oxygen index; Phosphorus; Polyester; Polymer substrates; Pyrolysis-gas chromatography; Textiles; Thermal analysis; Calorimetry; Cellulose; Flames; Flammable gases; Nylon; *SP411*, pp. 37-49. SP305-6.

idation reactions; Particle size; Transport processes; Acetylene-oxygen flame; Benzene flames; Bunsen flames; Carbon formation; Carbon limit; Concentration profiles; Cyanogen-oxygen flame; Flame front curvature; Hydrocarbon radicals; *SP357*, pp. 143-150. SP305-4.

idation theory; Parabolic law for metal oxidation; Semiconductors; Conductivity; Electric field effects; Insulating films; Insulators; Metal oxidation; Metals; MOM devices; Oxidation; 6260. SP305-8.

idation-reduction; Phase equilibria; Transition-metal oxides; Alkaline earth oxides; Nonstoichiometry; 13186. SP305-5.

idation-reduction; Phase equilibria; System BaMnO<sub>3</sub>; Barium-manganese oxides; Crystal structures; 12468. SP305-4.

idation theory; Antioxidants; Inhibition of oxidation; Initiation of oxidation; Oxidation mechanism; *SP357*, pp. 73-78. SP305-4.

lative addition; Palladium; Boron hydrides; Deuterium; Palladium; Maleonitriledithiolate; Metalboranes; Nuclear magnetic resonance; 16566. SP305-8.

lative degradation; Peroxy radical isomerization; Poly(ethylene oxide); Polymer; Polypropylene; Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; Mechanism; Organic compound; *SP357*, pp. 85-92. SP305-4.

lative detonation; Oxidative flash; Oxygen atmosphere; Spacecraft; Blast over-pressure; Combustion front; Hypervelocity impact; Meteoroid penetration; *SP336*, pp. 569-585. SP305-3.

lative flash; Oxygen atmosphere; Spacecraft; Blast over-pressure; Combustion front; Hypervelocity impact; Meteoroid penetration; Oxidative detonation; *SP336*, pp. 569-585. SP305-3.

lative pyrolysis; Oxygen index; Rayon; Smoke; Smoldering; Upholstery fabric; Cotton; Cushioning; Fire retardant; Furniture; Glowing; Inhibitor; 16224. SP305-8.

lative reactions; Reaction mechanisms; Zak; Carbonium ion formation; Cholestapolyenes; Cholesterol; Enylic cations; Ebermann-Burchard; 14489. SP305-6.

lative; Passive; Spinel; Amorphous; Diffraction; Fe-Cr; Lattice parameter; 1 N H<sub>2</sub>SO<sub>4</sub>; 13004. SP305-4.

lative; Perovskite; Solid solution; Antiferromagnetism; Curie-Weiss paramagnetism; Ferromagnetism; Metallic conductivity; *SP364*, pp. 275-284. SP305-4.

lative; Proton; Range; Scattering; Depth; Deuterium; Diffusion; Elastic; Helium; Migration; *SP425*, pp. 488-491. SP305-7.

lative; Resistivity; Remanence; Susceptibility; Alloy; Copper; Pyrogenic; Iron; 16632. SP305-8.

Oxide; Single crystal; Tetramolybdate; X-ray structure determination; Alkali metal; Bronze; Heptagonal holes; Hexagonal tungsten bronze; Lattice image; Molybdate; Molybdenum; Niobate; Niobium; *SP364*, pp. 15-27. SP305-4.

Oxide defects; Rutile structure; Wadsley defects; Block structures; Crystallographic shear; Defect clusters; Defect models; High resolution electron microscopy; *SP364*, pp. 295-317. SP305-4.

Oxide electrode; Perovskite surface composition; Rotating electrode voltammetry; Semiconductor electrode; Flat band potential; Hydrogen evolution; *SP455*, pp. 229-240 (Nov. 1976). SP305-8.

Oxide electrodes; Oxygen electrochemistry; Semiconductor electrodes; Carbon; Electroanalysis; Nickel oxide; *SP455*, pp. 203-219 (Nov. 1976). SP305-8.

Oxide electrodes; Oxygen electrode reaction; Ruthenium dioxide/titanium dioxide; Spinel; Electroanalysis; Nickel-cobalt oxide; Nickel oxide; *SP455*, pp. 289-296 (Nov. 1976). SP305-8.

Oxide films; Passivation overcoats; Photomask metrology; Pull test; Resistivity; Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Shear test; *SP400-19*. SP305-8.

Oxide films; Photomask inspection; Resistivity; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; *SP400-17*. SP305-7.

Oxide films; Photomasks; Photoresist; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; Test patterns; *SP400-1*. SP305-6.

Oxide films; Photomasks; Photoresist; Platinum wire resistivity; Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; Test patterns; *SP400-4*. SP305-6.

Oxide films; Photomasks; Photoresist; Resistivity; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; *SP400-8*. SP305-7.

Oxide films; Precipitates; Transmission microscopy; Aluminum alloys; Hot saline water corrosion; 12315. SP305-3.

Oxide films; Resistivity; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; *SP400-12*. SP305-7.

Oxide films; Titanium; Titanium alloy corrosion; Electron microscopy; Hot saline water corrosion; 12494. SP305-4.

Oxide free; Paramagnetic; Soft x-ray; Transition probability; Density of states; Emission spectrum; Linear detection; Nickel; 10334. SP305-1.

Oxide glasses; Phosphate glass; Silicate glasses; Fused silica; Infrared absorption; Infrared reflection; Optical constants; 9635. SP305-1.

Oxide glasses; Polarizability; Pressure; Refractive index; Temperature coefficient of refractive index; Thermal expansion; Interferometry; Light scattering; *J.77A No. 6*, 755-763 (1973). SP305-5.

Oxide glasses; Relaxation times; Supercritical fluctuations; Ultrasonic spectroscopy; Viscous relaxation; Immiscibility; 11986. SP305-3.

Oxide glasses; Silicate substructures; Ternary glasses; Barium glasses; Barium silicates; Glass properties; Glass property factors; *Monogr. 135*. SP305-5.

- Oxide glasses; Ultrasonic spectroscopy; Volume relaxation; Composition fluctuations; Critical point phenomena; Immiscibility; *13243. SP305-5.*
- Oxide glasses; Viscosity; Critical phenomena; Immiscibility; *12294. SP305-3.*
- Oxide mixtures; Viscosity anomaly; Anomaly in oxide mixtures; *11929. SP305-3.*
- Oxide radical ion; Radical reactions; Rate constants; Reference data; Abstraction reactions; Addition reactions; Aqueous solution; Biological molecules; Electron transfer reactions; Hydroxyl radical; *NSRDS-NBS46. SP305-5.*
- Oxide semiconductors;  $TiH_2$ ; Soldering; Contact resistance; *11812. SP305-3.*
- Oxide solid solutions; Plutonium dioxide; Protactinium dioxide; Thorium dioxide; Uranium dioxide; Activity coefficients in solid solutions; Equilibria with molten fluorides; Equilibrium of actinide oxides and molten fluorides; *SP364*, pp. 331-341. *SP305-4.*
- Oxide structure; Surface potential; Ellipsometry; Low energy electron diffraction; Metal oxidation; Oxidation kinetics; *14426. SP305-6.*
- Oxide structures; Praseodymium oxide; Single crystal; Terbium oxide; Higher oxides; Hydrothermal crystal growth; *SP364*, pp. 343-351. *SP305-4.*
- Oxide systems; Phase diagram; Scandium oxide; Boric oxide; Liquid immiscibility; *9476. SP305.*
- Oxide systems; Silicates; Borates; Glassformers; Immiscibility; Liquid immiscibility; Modifiers, network; *9475. SP305.*
- Oxide-growth; Season-cracking; Stress-corrosion; Alpha-brass; Copper; Ellipsometry; *11539. SP305-2.*
- Oxides; Applications (optical, magnetic); Electronic properties; *14876. SP305-7.*
- Oxides; Ceria; Crystal defects; Diffusion; Mass transport; Nonstoichiometry; *SP364*, pp. 353-365. *SP305-4.*
- Oxides; Coal slag; Electrical conductivity; High temperature; Magnetohydrodynamics; *14373. SP305-6.*
- Oxides; Oxygen diffusion; Pure materials; Sapphire;  $Al_2O_3$ ; Crystal growth; Damage threshold; Glass; High temperature materials; Laser; *TN703. SP305-3.*
- Oxides; Oxygen diffusion; Pure materials; Sapphire;  $Al_2O_3$ ; Crystal growth; Damage threshold; Glass; High temperature materials; Laser; *TN574. SP305-3.*
- Oxides; Photolithography; Process control; Reliability; Semiconductor devices; Silicon; Wire bonding; Die bonding; Hermeticity; Integrated circuits; Measurement methods; Microelectronics; *SP400-3. SP305-6.*
- Oxides; Polymers; Pyrolytic graphite; Transition metal borides; Copper; Creep; Crystal growth; Diffusion; Enthalpy; Evaporation; Fracture; Glass band structure; High temperature materials; Mass transport; Materials properties; Mechanical relaxation; *TN494. SP305-1.*
- Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Fracture; Glass; High temperature materials; Inhomogeneities in glass; Laser damage; *TN514. SP305-2.*
- Oxides; Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Fracture; Glass; High temperature materials; Inhomogeneities in glass; Laser damage; Laser glass; *TN531. SP305-2.*
- Oxides; Pyrochlore structure; Semiconductivity; Metallic conductivity; *SP364*, pp. 227-232. *SP305-4.*
- Oxides; Refractory hard metals; Solid State Chemistry; Chalcogenides; Crystallographic shear; Electron optical lattice images; Lone pair geometry; Nonstoichiometry; *SP364. SP305-4.*
- Oxides; RF sputtering; Strength; Surface finish; Twins; Carbides; Glass; Ion beam sputtering; Nitrides; *SP348*, pp. 171-187. *SP305-4.*
- Oxides; Ruby; Rutile; Titanium; Titanium dioxide; Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical properties; Chemical analysis; Chromium ions; Corrosion; Crystal defects; Crystal growth; Density of states; Diffusion; *TN565. SP305-3.*
- Oxides; Sea water; Solubility; Carbonates; Equilibria; Hydroxide carbonates; Hydroxides; *10782. SP305-1.*
- Oxides; Semiconductors; Strontium titanate; Transition metal compounds; Transport measurements; Electronic band structure; *11623. SP305-2.*
- Oxides; Stoichiometry; Crystal defects; Diffusion; Ionic conductivity; Mass transport; *SP296. SP305-1.*
- Oxides; Strengths; Carbides ceramics; Fracture; Grain size; Grinding; Hardness; Mechanical testing; Nitrides; *SP348*, pp. 365-375. *SP305-4.*
- Oxides; Sulfides; Van der Waals coefficients; Alkaline earth chalcogenides; Electronic polarizabilities; Lorentz factor; *11675. SP305-2.*
- Oxides; Synthesis; Chemical Vapor Transport; Crystal growth; *SP364*, pp. 413-436. *SP305-4.*
- Oxides; Thermodynamics; Actinide oxides; Actinide sesquioxides; Americium oxides; Berkelium oxides; Curium oxides; Melting points of actinide oxides; Nonstoichiometry; *SP364*, pp. 319-330. *SP305-4.*
- Oxides of nitrogen; Sulfur dioxide; Air pollution; Instrumentation; Measurement; *14939. SP305-7.*
- Oxides of nuclear materials; Borides; Carbides; Diffusion rates; Nitrides; *10909. SP305-2.*
- Oxides of uranium; Infrared spectra; Mass spectrophotometry; Matrix isolated; *J.78A No. 3, 421-424 (1974). SP305-6.*
- Oxidimetric standards; Analytical procedures; Arsenic-iodine method; Comparison; Effective purity; *SP260-24. SP305-4.*
- Oxidizers; Oxygen; Propellants; Safety information; Thermodynamic properties; Chemical reactions; Combustion; Cryogenic fluid safety; Explosions; Fires; Fuels; Handling; Hydrogen; *15154. SP305-7.*
- Oxidizing agent; Schreiberite; Sulfate-reducing bacteria; Vanadate; Anaerobic corrosion; Cathodic depolarization; Charles Thom Award; *Desulfovibrio desulfuricans*; Holmium whiskers; Mechanism; Microbial corrosion; Mild steel; *15214. SP305-7.*
- Oxo-bis(phenylhydrazono) compounds; Phenylhydrazono-phenylazo tautomerism; Phenylazones; Tautomerism; Ultraviolet spectra; Diphenylformazans; Enolic phenylhydrazono-phenylazo structure; Infrared spectra; Molecular structure; Nuclear magnetic resonance; *10286. SP305-1.*
- Oxycellulose; Stability; Sulfuric acid; Thermogravimetric analysis; Alum; Aluminum; Apparent activation energy; Calcium; Cellulose; Crosslinking; Differential thermal analysis; Exchange; Organic acid; *12218. SP305-3.*
- Oxyfluorides; Reactive intermediates; Silicon; Time-of-flight mass spectrometry; Transport species; Boron; Electrochemical discharge; Germanium; *10853. SP305-1.*
- Oxygen; Absorption coefficient; Argon; Carbon monoxide; Infrared; Hydrogen; Liquefied gases; Methane; Nitrogen; *TN390. SP305-2.*
- Oxygen; Additives; Asphalt-Kuwait; Flux; Hardening; Infrared spectroscopy; *9616. SP305-1.*
- Oxygen; Argon; Calibration; Cryogenic; Flowmeter, measurement; Nitrogen; *14406. SP305-6.*
- Oxygen; Argon; Diffusion coefficient; Gas chromatography; Helium; Krypton; Nitrogen; *J.73A No. 2, 207-211 (1973). SP305-1.*
- Oxygen; Atomic oxygen; Kinetics; *13077. SP305-5.*
- Oxygen; Chemical analysis; Electrolyte discharge; Electroreducible or -oxidizable; Galvanostatic; Hydrogen; *10076. SP305-1.*
- Oxygen; Clausius-Mossotti function; Dielectric constant; *J.73A No. 1, 37-40 (1972). SP305-4.*

gen; Crack initiation; Engineering alloys; Environment; Atigue; Humidity; *11124*. SP305-2.

gen; Dissociation; Electron impact; Ionization; *14561*. SP305-6.

gen; Electron energy-loss; Oscillator strengths; *15152*. SP305-7.

gen; Ferrous standard reference materials; CO by infrared sorbancy; Homogeneity; Certified value; Eighteen operating laboratories; Vacuum fusion; Inert gas fusion; *260-14*. SP305.

gen; Laser electron paramagnetic resonance spectrometer; *663*. SP305-2.

gen; Orthobaric densities; Parahydrogen; Saturated liquid and vapor densities; Coexistence; Coexistence temperatures; Critical constants; Critical density; Critical temperatures; Argon; Neon; *J.74A No. 2, 221-227 (1970)*. SP305-2.

gen; Oxygen atoms; Rate constants; Kinetics; Nitric oxide; Hydrogen dioxide; *9848*. SP305-1.

gen; Oxygen difluoride; Reaction calorimetry; Water; Bond energy (O-F); Flame calorimetry; Flow calorimetry; Argon; Heat of formation; Heat of reaction; Hydrogen peroxide (aqueous); *J.72A No. 2, 113-131 (1968)*. SP305-1.

gen; Oxygen tension; Oxygen tension distribution; Contact resistance; Contact lens motion; Diffusion; Hydrodynamics; Mathematical model; *15208*. SP305-7.

gen; Oxygenated organic compounds; Ozone; Bibliography; Chemical kinetics; Combustion; Free radicals; Gas phase; Hydrocarbons; Oxidation; *SP449*. SP305-8.

gen; Ozone; Bibliography; Chemical kinetics; Gas phase; Argon; Nitrogen oxides; *NBS-OSRDB-71-2 (COM-71-141)*. SP305-3.

gen; Ozone; Triplet states; Electron impact; Energy loss spectra; *15473*. SP305-7.

gen; Parahydrogen; Pressure; Saturated liquid; Tables; Temperatures; Uncertainties; Volume; Volume correction factor; Argon; Compressed liquid; Density; Graphs; Liquid; Argon; *TN361, Revised October 1972*. SP305-5.

gen; Parahydrogen; Pressure; Saturated liquid; Temperatures; Uncertainties; Volume; Argon; Density; Nitrogen; *361*. SP305-1.

gen; Performance; Pressure; Survey; Transducer; Calibration; Compatibility; Cryogenic; Liquid oxygen; Measurement; *SP305-7*.

gen; Phosphorous; Silicon; Sulfur; Boron; Carbon; Light elements; Metals; Nitrogen; *TN524*. SP305-2.

gen; Photoconductive decay lifetime; Reverse recovery time; Carrier drift mobility; Carrier trapping; Charge collection efficiency; Energy resolution; Gamma ray detectors; Hall effect; Infrared absorption; Lithium drift mobility; Lithium precipitation; *10465*. SP305-1.

gen; Photoelectron spectra; Relaxation energy; Surfaces; Tungsten; Ultraviolet photoemission; Valence band; Virgin states;  $\beta$  states; Adsorption; Carbon; Carbon monoxide; Chemical bonding; Chemisorption; Density dependent transitions; Desorption; *16419*. SP305-8.

gen; Photoelectron spectroscopy; Carbon monoxide; Chemical shifts; Chemisorption; ESCA; Nitric oxide; *14562*. SP305-6.

gen; Photoelectron spectroscopy; Physisorption; Tungsten; Nitrogen; XPS; Carbon monoxide; Chemisorption; ESCA; Intratomic relaxation; Formaldehyde; *16023*. SP305-8.

gen; Photon activation analysis; Review; Sensitivities; Gammastrahlung; Carbon; Electron accelerators; Nitrogen; *76*. SP305-3.

gen; Photon activation analysis; Rapid radiochemical separation; Sodium; Coincidence spectrometry; *11642A*. SP305-2.

gen; Photolysis; Sensitivity; Tungsten; Carbon monoxide; Nitrogen; Monolayer; *14027*. SP305-6.

Oxygen; Physical adsorption; Tungsten; Xenon; Chemisorption; ESCA; *15347*. SP305-7.

Oxygen; Physisorption; Surface chemistry; Tungsten; X-ray photoelectron spectroscopy; Carbon dioxide; Carbon monoxide; Chemisorption; Formaldehyde; *16085*. SP305-8.

Oxygen; Physisorption; Tungsten; Binding states; Chemisorption; Cross section; Desorption; Electronic desorption; Electron impact; *11212*. SP305-2.

Oxygen; Polarizability; Saturated liquid; Clausius-Mossotti function; Dielectric constant; *11844*. SP305-3.

Oxygen; Precision; Sample rotator; 14 MeV neutrons; Accuracy; Activation analysis; Design; *10576*. SP305-1.

Oxygen; Pressure broadening; Strong collision; Classical trajectory; *12587*. SP305-4.

Oxygen; Propellants; Safety information; Thermodynamic properties; Chemical reactions; Combustion; Cryogenic fluid safety; Explosions; Fires; Fuels; Handling; Hydrogen; Oxidizers; *15154*. SP305-7.

Oxygen; Properties of fluids; P-V-T; Saturation densities; Critical density; Critical point; Critical temperature; *11787*. SP305-2.

Oxygen; Properties of fluids; P-V-T, saturation densities; Critical density; Critical point; Critical temperature; *11523*. SP305-2.

Oxygen; Properties of fluids; Review; Thermodynamic; Argon; Bibliography; Compilations; Critical evaluation; Cryogenics; Experimental measurement; Fluorine; Helium; Hydrogen; Methane; Nitrogen; *13848*. SP305-6.

Oxygen; Properties of fluids; Saturated liquid and vapor; Specific heat; Vapor pressure; Velocity of sound; Density; Enthalpy; Entropy; Equation of state; Fixed points (PVT); Joule-Thomson; Latent heat; *J.74A No. 1, 93-129 (1970)*. SP305-2.

Oxygen; Property value uncertainties; Solid oxygen; Tables; Computer programs; Gaseous oxygen; Graphs; Handbook thermophysical properties; Liquid oxygen; *13112*. SP305-5.

Oxygen; Protons, time delay; Time smearing; Deuterium; Moderator; Monte Carlo; Neutrons; *13345*. SP305-5.

Oxygen; PVT; Chemical potential; Coexistence curve; Compressibility; Critical point; *12185*. SP305-3.

Oxygen; Radical-anion; Bis(phenylhydrazine); E.s.r.; Glyoxal; Methyl sulfoxide; *J.75A No. 6, 573-577 (1971)*. SP305-3.

Oxygen; Rare gases; Thermal conductivity; Thermal diffusion; Viscosity; Carbon dioxide; Diffusion; Dispersion coefficients; Methane; *m-6-8* potential; Nitrogen; *12862*. SP305-4.

Oxygen; Rate constants; Combination; Kinetics; Methyl; Nitric oxide; *15328*. SP305-7.

Oxygen; Rate constants; Spiropentane; Cycloheptane; Cyclohexane; Cyclopentane; *J.76A No. 2, 77-80 (1972)*. SP305-4.

Oxygen; Rats; Blood; Carbon dioxide; Carbon monoxide; Cyanide; Fire; Hydrogen chloride; Hydrogen cyanide; *NBSIR 75-966*. SP305-8.

Oxygen; Reaction kinetics; Tungsten; Chlorine; High temperature; Mass spectrometry; *11061*. SP305-2.

Oxygen; Reaction mechanisms; Ring-disk electrodes; Electrocatalysis; Electronic structure; Hydrogen peroxide; Iron phthalocyanines; Mössbauer; Optical spectra; *SP455*, pp. 241-251 (Nov. 1976). SP305-8.

Oxygen; Removal cross section; Systematic errors; 14-MeV activation analysis; Correction factors; Neutron and gamma-ray attenuation; *10589*. SP305-1.

Oxygen; Reviews; Two-phase flow; Analyses; Analytical models; Choking flow; Critical flow; Cryogenic fluids; Helium; Hydrogen; *TN633*. SP305-5.

Oxygen; Rotational structure; Zeeman; Effect; Laser; Magnetic resonance; *15335*. SP305-7.

Oxygen; Ruthenium; Adsorption; Carbon monoxide; Catalysis; LEED; *15045*. SP305-7.

Oxygen; Ruthenium; Satellite; Shake-up; Structure; X-ray photoelectron spectroscopy; *15147. SP305-7.*

Oxygen; Safety; Stainless steel; Steel, titanium; Alloys; Aluminum; Combustion; Ignition; *NBSIR 73-345. SP305-6.*

Oxygen; Safety; Survey; Compatibility data; High pressure; *13565. SP305-5.*

Oxygen; Safety; Survey; Compatibility; Materials; Metals; *14215. SP305-6.*

Oxygen; Saturated liquid; Specific heat; Coexistence; Experimental; Heat capacity; Liquid phase; *J73A No. 1, 1-13 (1969). SP305-1.*

Oxygen; Saturated liquid; Thermodynamic properties; Compressed liquid; Enthalpy; Entropy; Internal energy; *J73A No. 1, 25-36 (1969). SP305-1.*

Oxygen; Scaling laws; Statistical analysis; Critical coefficients; Critical exponents; Critical region; Density profile; Dielectric constant; Linear model; *14772. SP305-7.*

Oxygen; Second virial coefficient; Thermal conductivity coefficient; Thermal diffusion factor; Viscosity coefficient; Critically evaluated data; Dilute polyatomic gas; Kinetic theory of polyatomic molecules; *J. Phys. Chem. Ref. Data 2, No. 4, 735-756 (1973). SP305-6.*

Oxygen; Single crystal; Sticking coefficient; Thermionic emission; Work function; Adsorption; Carbon monoxide; Chemisorption; Desorption; Electron reflection; Nitrogen; *10392. SP305-1.*

Oxygen; Single crystal; Tungsten; Adsorption; Chemisorption; Desorption; Electron bombardment; Isotope; *11754. SP305-2.*

Oxygen; Single crystal W(100); Surface; Tungsten; Work function; Adsorption; Chemisorption; Desorption; Electron reflection; Electron stimulated desorption; *14443. SP305-6.*

Oxygen; Smoke; Temperature; Toxicity; Upholstery; Bedding; Beds; Carbon dioxide; Carbon monoxide; Combustion products; Fire gases; Fire hazards; Furniture; Life hazard; *NBS-GCR-73-1. SP305-8.*

Oxygen; Spacecraft cabin atmospheres; Water; Controlled atmospheres; Extinguishing; Fire extinguishers; Fires; Halons; *13515. SP305-5.*

Oxygen; Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; *TN384. SP305-3.*

Oxygen; Specific heats; Thermodynamic properties; Compressed liquid; Heat capacities; Liquid; *J73A No. 1, 15-24 (1969). SP305-1.*

Oxygen; Standard reference materials; Steels; Neutron generator activation analysis; Organometallics; *11649. SP305-2.*

Oxygen; Statistical analysis; Viscosity coefficient; Argon; Correlated molecular collisions; Density expansions; Fluorine; *15141. SP305-7.*

Oxygen; Sulfur; Sulfur hydrides; Sulfur oxides; Bibliography; Carbon oxysulfides; Carbon sulfides; Chemical kinetics; Gas phase; Hydrogen; Nitrogen; Nitrogen oxides; *SP362. SP305-4.*

Oxygen; Surface; Tungsten; Adsorption; Chemisorption; Cross section; Desorption; Electron stimulated desorption; Hydrogen; Nickel; Nitrogen; *12332. SP305-3.*

Oxygen; Tables; Thermal conductivity coefficient; Transport property; Viscosity coefficient; Xenon; Argon; Correlation; Critical data evaluation; Critical point; Dense gas and liquid; *J. Phys. Chem. Ref. Data 3, No. 4, 979-1018 (1974). SP305-6.*

Oxygen; Temperature scales; Triple point; Vapor pressure equation; Critical point; *12672. SP305-4.*

Oxygen; Tetrafluoroethylene; Transverse excitation laser; 2-methyl propene; Carbon isotopes; Carbonyl fluoride; CO<sub>2</sub> laser photolysis; Difluorocarbene; Difluorodichloromethane; Isotope ratio; Nitric oxide; *16657. SP305-8.*

Oxygen; Thermal radiation properties; Computations; *131. SP305-5.*

Oxygen; Thermodynamic properties; Air; Argon; Hydrogen; Ionized gases; Nitrogen; *16167. SP305-8.*

Oxygen; Threshold voltage; Tungsten; Binding states; Carbon monoxide; Chemisorption; Cross section; Electronic desorption; Electron impact; Ion energy distribution; Nitric oxide; *10453. SP305-1.*

Oxygen; Titanium; Combustion; Hilbert transform; Laser ionization; *15345. SP305-7.*

Oxygen; Transition probabilities; Energy loss; O<sub>2</sub>; Oscillation strengths; *15999. SP305-8.*

Oxygen; Transition probability; Vacuum ultraviolet; Arc emission; *12667. SP305-4.*

Oxygen; Transport coefficients; Lennard-Jones; Kihara; Experimental Morse potential functions; Eucken correction; Correlated dilute gases; Nitrogen; *TN350. SP305.*

Oxygen; Trends; Argon; Cryogenics; Forecasts; Helium; Hydrogen; Liquefied natural gas; *12451. SP305-4.*

Oxygen; Tungsten; Adsorption; Chemisorption; Desorption; Electron stimulated desorption; Oxidation; *12791. SP305-5.*

Oxygen; Tungsten; Carbon monoxide; Chemical shift; Chemisorption; ESCA; *14162. SP305-6.*

Oxygen; Tungsten; Carbon monoxide; Chemisorption; Electron stimulated desorption; Ion angular distribution; *163. SP305-8.*

Oxygen; Tungsten; Tungsten oxides; Adsorption; Chemisorption; Corrosion; Flash desorption; Oxidation; *12405. SP305-4.*

Oxygen; Tungsten; Tungsten oxides; Adsorption; Chemisorption; Flash desorption; Oxidation; *14461. SP305-6.*

Oxygen; Tungsten; Work function; Binding energy; Chemisorption; Displacement; Hydrogen; Methane; *12736. SP305-4.*

Oxygen; Tungsten; (110) tungsten; Chemisorption; Desorption; Electron impact; Molecular vibration; Neutralization; *11. SP305-2.*

Oxygen; Vacuum-fusion analysis; Gases in metals; Hydrogen; Hydrogen; Kjeldahl; Nitrogen; *12788. SP305-4.*

Oxygen; Vapor pressure; Critical point; Equation; Formulas; Liquid; Nitrogen; Nonanalytic; *J73A No. 5, 487-491 (1969). SP305-1.*

Oxygen adsorption; Photoelectric effect; Tungsten; Vacuum ultraviolet; *10800. SP305-1.*

Oxygen adsorption; Photoelectric effect; Tungsten; Vacuum ultraviolet; *10115. SP305-1.*

Oxygen analysis; Atmospheric composition; Gas analysis; *10484. SP305-1.*

Oxygen analysis; Photosynthetic oxygen; Oxygen variations; Atmospheric composition; *11752. SP305-2.*

Oxygen atmosphere; Spacecraft; Blast over-pressure; Combustion front; Hypervelocity impact; Meteoroid penetration; Oxidative detonation; Oxidative flash; *SP336, pp. 569-579. SP305-3.*

Oxygen atom; Low temperature chemistry; Olefins; Oxidation; *9793. SP305-1.*

Oxygen atom; Oxidation; Population distribution; Rotational; Acetylene; CH; Chemiluminescence; Cross section; Emission spectrum; Energy transfer; Experimental; Gas; *9288. SP305-1.*

Oxygen atom; Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; Nitrogen molecule; Nitrogen oxides; *SP371. SP305-5.*

Oxygen atom; Oxygen molecule; Ozone; Recombination; Review; Chemical kinetics; Dissociation; Isotopic exchange; *NSRDS-NBS20. SP305-1.*

Oxygen atom; Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; Nitrogen molecule; Nitrogen oxides; *SP371-I. SP305-7.*

Oxygen atom; Ozone; Photochemistry; Stratosphere; Atmosphere; Carbon monoxide; Chemical kinetics; *10484. SP305-1.*



valuation; Hydroxyl; Nitric acid; Nitric oxide; Nitrogen dioxide; 13441. SP305-5.

gen atom; Propylene; 1-butene; Low temperature chemistry; Olefins; Oxidation; 10377. SP305-1.

gen atom; 2-butene; Chemistry; Low temperature; Olefins; 1116. SP305-2.

gen atoms; Intermediate; Olefins; 12716. SP305-4.

gen atoms; Low temperature; Olefins; 11544. SP305-2.

gen atoms; Low temperature chemistry; Olefins; 11353. SP305-2.

gen atoms; Quenching reactions; Upper atmosphere; hydrogen atoms; Nitrogen atoms;  $O_2(^1\Delta_g)$ ; 12090. SP305-3.

gen atoms; Rate constants; Kinetics; Nitric oxide; Nitrogen oxide; Oxygen; 9848. SP305-1.

gen atoms; Rate constants; Stratosphere; Kinetics; Nitrogen oxide; 13247. SP305-5.

gen atoms; Resonance fluorescence; Ethylene; Flash photolysis; Kinetics; 13244. SP305-5.

gen atoms; RRMK; Thermal decomposition; Alcohols; chemical activation; Nonequilibrium; 15881. SP305-8.

gen atoms; Vibrationally excited reactant molecules; Carbonyl sulfide; Chemical kinetics; Ethylene; Flash photolysis resonance fluorescence; Infrared laser; 16453. SP305-8.

gen balance; Activation energy; Bond dissociation energy; computer programs; Explosive sensitivity tests; Heat of decomposition; NBSIR 74-551. SP305-6.

gen balance; Activation energy; Bond dissociation energy; computer programs; Explosive sensitivity tests; Heat of decomposition; 15957. SP305-8.

gen bomb; Potential heat; Tests; Calorimetry; Combustibility; Evaluation; Fire tests, heat of combustion; Interlaboratory tests; 11627. SP305-2.

gen concentration; Capacitance; Detector resolution; Effective Fano factor; Ge(Li) detector; Lithium-ion drift; Monograph; TN537. SP305-2.

gen concentration; Ge(Li) detectors; Germanium; Infrared absorption; Lithium mobility; Lithium precipitation; 12420. SP305-4.

gen concentration; *p*-type germanium; Electron drift mobility; Germanium diode; Lithium-ion drift mobility; Lithium precipitation; 12421. SP305-4.

gen concentration cells; Anaerobic corrosion; Cathodic polarization; Corrosion mechanisms; Metabolic products; microbial corrosion; 10999. SP305-2.

gen deficiency; Surface damage; Surface treatment;  $NbO_3$ ; 1.06  $\mu m$ ; SP414, pp. 131-134. SP305-6.

gen depletion; Particulate mass; Scanning electron microscope; Smoke; Carbon monoxide; Electrostatic precipitation; Heat flux; NBSIR 75-901. SP305-7.

gen determination; Trace gas analysis; Trace oxygen determination; Galvanic cells; Gas analysis; Gas analysis using electrochemical methods; 11001. SP305-2.

gen diffusion; Pure materials; Sapphire;  $Al_2O_3$ ; Crystal growth; Damage threshold; Glass; High temperature materials; Laser; Oxides; TN703. SP305-3.

gen diffusion; Pure materials; Sapphire;  $Al_2O_3$ ; Crystal growth; Damage threshold; Glass; High temperature materials; Laser; Oxides; TN574. SP305-3.

gen difluoride; Reaction calorimetry; Water; Bond energy (—F); Flame calorimetry; Flow calorimetry; Fluorine; Heat formation; Heat of reaction; Hydrogen fluoride (aqueous); Oxygen; 172A No. 2, 113-131 (1968). SP305-1.

gen difluoride, heat of formation; Oxygen difluoride, reaction with hydrogen; Calorimetry, fluorine flame; Fluorine, reaction with hydrogen; Hydrofluoric acid, heat of formation; Hydrogen, reactions with fluorine, oxygen difluoride and oxygen; 9845. SP305-1.

gen difluoride, reaction with hydrogen; Calorimetry, fluorine flame; Fluorine, reaction with hydrogen; Hydrofluor-

ic acid, heat of formation; Hydrogen, reactions with fluorine, oxygen difluoride and oxygen; Oxygen, reaction with hydrogen; 9845. SP305-1.

Oxygen electrochemistry; Semiconductor electrodes; Carbon; Electrocatalysis; Nickel oxide; Oxide electrodes; SP455, pp. 203-219 (Nov. 1976). SP305-8.

Oxygen electrode; Photo-assisted electrolysis; Rutile; Electrocatalyst; Hydrogen evolution; Lanthanum titanate; SP455, pp. 313-321 (Nov. 1976). SP305-8.

Oxygen electrode reaction; Ruthenium dioxide/titanium dioxide; Spinell; Electrocatalysis; Nickel-cobalt oxide; Nickel oxide; Oxide electrodes; SP455, pp. 289-296 (Nov. 1976). SP305-8.

Oxygen evolution; Platinum anodes; Reaction mechanism; Anodic films; Dual barrier, electrocatalysis; SP455, pp. 259-266 (Nov. 1976). SP305-8.

Oxygen evolution, Pourbaix diagram; Semiconducting oxides; Spinels; Teflon bonded electrodes; Nickel cobalt oxides; SP455, pp. 281-288 (Nov. 1976). SP305-8.

Oxygen, first spectrum; Spectrum O I; Wavelengths, O I; Atomic energy levels, O I; Atomic spectra, O I; Multiplet table, O I; NSRDS-NBS3, Section 7. SP305-8.

Oxygen fluorides; Quantum chemistry; Spin conservation; 12815. SP305-4.

Oxygen II; Plasma; T-tube; Carbon II; Coulomb approximation; Electron density; Electron temperature; Equivalent electrons; Local thermal equilibrium; Oscillator strength (*f*-value); Optical depth; 9388. SP305.

Oxygen impurities; Silver-tin alloys; Stacking fault energy; Dislocations; Electron microscopy; 10566. SP305-1.

Oxygen in germanium; Oxygen in silicon; Silicon; Absorption coefficient; Germanium; Infrared absorption; Methods of measurement; TN529. SP305-2.

Oxygen in silicon; Gold in silicon; SP400-10, pp. 201-208. SP305-6.

Oxygen in silicon; Silicon; Absorption coefficient; Germanium; Infrared absorption; Methods of measurement; Oxygen in germanium; TN529. SP305-2.

Oxygen in silicon; Silicon single crystals; Spreading resistance measurements; Swirls; SP400-10, pp. 185-190. SP305-6.

Oxygen in titanium; Titrimetry; Absorption and fluorescence spectrophotometry; Arsenic; Atomic absorption; Beryllium; DTA studies; Dysprosium in a glass; Flame emission; Gases in metals; Gravimetry; Homogeneous precipitation; TN424. SP305-1.

Oxygen index; Fire retardant mechanisms; Fire retardant polymers; fire retardants; Mass transfer number; Opposed flow diffusion flame; NBS-GCR-75-40. SP305-8.

Oxygen index; Phosphorus; Polyester; Polymer substrates; Pyrolysis-gas chromatography; Textiles; Thermal analysis; Calorimetry; Cellulose; Flames; Flammable gases; Nylon; Oxidation reactions; SP411, pp. 37-49. SP305-6.

Oxygen index; Rayon; Smoke; Smoldering; Upholstery fabric; Cotton; Cushioning; Fire retardant; Furniture; Glowing; Inhibitor; Oxidative pyrolysis; 16224. SP305-8.

Oxygen index test; Thermodynamics; Chemical kinetics; Diffusion flames; Flame extinction; Flame temperature; Flame velocity; Flammability; Flammability limits; NBSIR 76-1076. SP305-8.

Oxygen indexes; Pyrolysis; Reaction rates; Temperature; TGA; Thermal analysis; Accessibility; Arrhenius plots; Burned celluloses; Celluloses; Combustion; Crystallinity; Decomposition; DP; DTA; Flame-retardant;  $KHCO_3$ ; Kinetics; Moisture; 13129. SP305-5.

Oxygen, influence of, on creep of rubber; Rubber, natural, creep; Time, effect of, on compliance of rubber; Compliance of rubber; Creep, long-time, in rubber; Humidity, effect of, on creep of rubber; Modulus of rubber, effect of humidity; 178A No. 5, 623-629 (1974). SP305-6.

- Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; Nitrogen molecule; Nitrogen oxides; Oxygen atom; *SP371*. SP305-5.
- Oxygen molecule; Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; Nitrogen molecule; Nitrogen oxides; Oxygen atom; *SP371-1*. SP305-7.
- Oxygen molecule; Ozone; Recombination; Review; Chemical kinetics; Dissociation; Isotopic exchange; Oxygen atom; *NSRDS-NBS20*. SP305-1.
- Oxygen negative ion;  $O_2^-$ ; Photodetachment; Photoionization; Drift tube; Ion mobility; *11482*. SP305-2.
- Oxygen on (100) tungsten; Surface bonds; Uv photoemission; Angular distributions; Bond geometry; Chemisorption; Energy distributions; *15089*. SP305-7.
- Oxygen photoemission; Tungsten; Adsorption; Carbon monoxide; Field emission; Hydrogen; Metal surfaces; *13250*. SP305-5.
- Oxygen point; IPTS-68; *12483*. SP305-4.
- Oxygen point; Platinum resistance thermometer; Temperature standard; Tin point; Triple point of water; Zinc point; Comparator; International Practical Temperature Scale of 1968; IPTS-68; *J. Res. 80A* No. 3, 477-504 (1976). SP305-8.
- Oxygen; Potassium; Sodium; Aluminum; Argon; Atomic transition probabilities; Beryllium; Boron; Carbon; Chlorine; Helium; Hydrogen; Lithium; Magnesium; Nitrogen; *16164*. SP305-8.
- Oxygen pressures; Silver oxide; Dissociation by heat; Entropy; Equilibrium; Heat of reaction; *9377*. SP305.
- Oxygen pressures; Thermogravimetry; Dissociation; Entropy; Equilibrium; Heat of reaction; Intermediate oxides; Irreversibility; Lead oxides; *9975*. SP305-1.
- Oxygen, reaction with hydrogen; Oxygen difluoride, heat of formation; Oxygen difluoride, reaction with hydrogen; Calorimetry, fluorine flame; Fluorine, reaction with hydrogen; Hydrofluoric acid, heat of formation; *9845*. SP305-1.
- Oxygen reduction; Electrochemistry; Molybdenum oxides; Orientation effects; *SP455*, pp. 305-312 (Nov. 1976). SP305-8.
- Oxygen reduction; Phosphoric acid; Ternary metal-sulfur arrays; Transition elements; Triphenylphosphine; Tungsten bronze; Electrocatalsis; Fuel cells; Mixed oxides; *NBSIR 75-742*. SP305-8.
- Oxygen reduction; Phthalocyanine catalysts; Ferric phthalocyanine; Kinetics; *SP455*, pp. 253-258 (Nov. 1976). SP305-8.
- Oxygen reduction; Sodium depletion; Tafel plots; Tungsten bronzes; Auger electron spectroscopy; Electrocatalsis; *SP455*, pp. 297-303 (Nov. 1976). SP305-8.
- Oxygen reduction; Underpotential deposition; Electrocatalsis; Foreign metal monolayers;  $Fe^{2+}/Fe^{3+}$  reaction; Formic acid oxidation; *SP455*, pp. 191-200 (Nov. 1976). SP305-8.
- Oxygen tension; Oxygen tension distribution; Contact lens; Contact lens motion; Diffusion; Hydrodynamics; Mathematical model; Oxygen; *15208*. SP305-7.
- Oxygen tension distribution; Contact lens; Contact lens motion; Diffusion; Hydrodynamics; Mathematical model; Oxygen; Oxygen tension; *15208*. SP305-7.
- Oxygen tracer; Thermal neutrons; Alpha tracks; Alumina; Cellulose acetate; Citric acid; Image analyzing system; Nuclear track technique; *13758*. SP305-5.
- Oxygen transport; Steady-state overvoltages; Copper electrodes; Interfacial resistance; Metal-metal oxide electrodes; *SP455*, pp. 351-358 (Nov. 1976). SP305-8.
- Oxygen vacancies; Perovskite; Semiconductivity;  $SrFe_{1-x}Mn_xO_{3-y}$ ; Antiferromagnetism;  $CaFe_{1-x}Mn_xO_{3-y}$ ; Defect structure; Mixed metal oxides; Mössbauer effect; *SP364*, pp. 265-273. SP305-4.
- Oxygen variations; Atmospheric composition; Oxygen analysis; Photosynthetic oxygen; *11752*. SP305-2.
- Oxygenated organic compounds; Ozone; Bibliography; Chemical kinetics; Combustion; Free radicals; Gas phase; Hydrocarbons; Oxidation; Oxygen; *SP449*. SP305-8.
- Ozone; Apparatus and methods; Deactivation; Energy transfer; Infrared laser; Luminescence; *14548*. SP305-6.
- Ozone; Apparatus and methods; Deactivation; Energy transfer; Infrared laser; Luminescence; *15221*. SP305-7.
- Ozone; Bibliography; Chemical kinetics; Gas phase; Nitrogen oxides; Oxygen; *NBS-OSRDB-71-2 (COM-00841)*. SP305-3.
- Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; Nitrogen molecule; Nitrogen oxide; Oxygen atom; Oxygen molecule; *SP371-1*. SP305-7.
- Ozone; Bibliography; Chemical kinetics; Combustion; Free radicals; Gas phase; Hydrocarbons; Oxidation; Oxygen; Oxygenated organic compounds; *SP449*. SP305-8.
- Ozone; Electron energy-loss; Electron excitation; Gas scattering; *14133*. SP305-6.
- Ozone; Particulate analysis; Sulfur dioxide; Air pollution analysis; Carbon monoxide; Fire research; Microchemical analysis; Nitrogen dioxide; *TN585*. SP305-4.
- Ozone; Particulates; Standard reference materials; Sulfur dioxide; Air pollution; Carbon monoxide; Hydrocarbons; Nitrogen oxide; *TN711*. SP305-4.
- Ozone; Photochemical smog; Rate constant; Air pollution kinetics; Mass spectrometry; Olefin; *15355*. SP305-7.
- Ozone; Photochemistry; Stratosphere; Atmosphere; Carbon monoxide; Chemical kinetics; Data evaluation; Hydrogen; Nitric acid; Nitric oxide; Nitrogen dioxide; Oxygen atom; *13441*. SP305-5.
- Ozone; Photochemistry; Stratosphere; Water; Atmospheric chemistry; Chemical kinetics; Data evaluation; Nitrogen oxides; *13491*. SP305-5.
- Ozone; Bibliography; Chemical kinetics; Excited state; Gas phase; Nitrogen atom; Nitrogen molecule; Nitrogen oxide; Oxygen atom; Oxygen molecule; *SP371*. SP305-5.
- Ozone; Plastic material; Simulation; Solar ultraviolet radiation; Atmospheric environment; Balloon; Computer; *SP336*, 245-259. SP305-3.
- Ozone; Pollution; Spectra; Absorption spectra; Infra-red; Molecular energy levels; *15311*. SP305-7.
- Ozone; Propene; Rate constant; Air pollution; Ethene; Kinetics; Mass spectrometry; *15234*. SP305-7.
- Ozone; Radiometer; Stabilizer; Toy safety; Computer security; Energy efficiency; Electrocatalsis; Fluorides; Heart; Pump; Laser; *DIM/NBS 59*, No. 11, 241-264 (1975). SP305-7.
- Ozone; Rate constant; Kinetics; Mass spectrometry; Nitrogen dioxide; Olefin; *14956*. SP305-7.
- Ozone; Rate constant; Stratosphere; Air pollution; Nitrogen dioxide; *14539*. SP305-6.
- Ozone; Recombination; Review; Chemical kinetics; Dissociation; Isotopic exchange; Oxygen atom; Oxygen molecule; *NSRDS-NBS20*. SP305-1.
- Ozone; Resonance fluorescence; Stratosphere; Chlorine atom; Kinetics; *15949*. SP305-8.
- Ozone; RKM; Ammonia; Combination; Cyanogen; Decomposition kinetics; Nitric acid; Nitryl chloride; *14046*. SP305-6.
- Ozone; Solar radiation; Spectral distribution; Water vapor concentration; Wavelength; Wavenumber; Aerosol; Air pollution; *9525*. SP305.
- Ozone; Stratosphere; Ammonia; Kinetics; OH radical; *13491*. SP305-6.
- Ozone; Triplet states; Electron energy loss; Forbidden transitions; *15750*. SP305-8.
- Ozone; Triplet states; Electron impact; Energy loss spectra; Kinetics; *15473*. SP305-7.
- Ozone; Vibrationally energy; Kinetics; Laser enhanced fluorescence; Nitric oxide;  $O_3(^1\Delta)$ ; *14385*. SP305-6.

one depletion; Rotational constants; Stratospheric chemistry; Atmospheric pollution; Chlorine nitrate; Dipole moment; Microwave spectrum; 16584. SP305-8.

One problem; Police communications; Water pollution; X rays; Air pollution; Camera guidelines; Computerized elections; Dental fillings; Metre; DIM/NBS 59, No. 5, 97-120 (1975). SP305-7.

One puzzle; Portable transceiver batteries; RF power meter; Utilities system; Batteries; Dental materials; Industry; Integrated utilities system; Mass spectrometry; Motorized criminal; DIM/NBS 60, No. 3, 1-24 (1976). SP305-8.

O<sub>2</sub>; O<sup>(1S)</sup>; Quenching rate; Spin-orbit coupling; Transition probability; Curve crossing; 15566. SP305-7.

O<sub>2</sub>; Quenching rate; Spin-orbit coupling; Transition probability; Curve crossing; O<sup>(1D)</sup>; 15566. SP305-7.

O<sup>(1D)</sup> emission; Photodissociation; Vacuum ultraviolet; Collisional stimulations; N<sub>2</sub>O; 13323. SP305-5.

Photo absorption; Continuum states; Coupled channels; Interacting continua; Nuclear structure; 10801. SP305-1.

Dissociation; Electron impact; Interaction energies; N<sub>2</sub><sup>+</sup>; 0444. SP305-1.

Adiabatic correlation; Asymptotic states; Configuration interaction; Correlation energy; Excited states; Multiconfiguration self-consistent field; 13206. SP305-5.

Oscillator strengths; Oxygen; Transition probabilities; Enerloss; 15999. SP305-8.

O<sub>2</sub><sup>-</sup>; O<sub>2</sub><sup>-</sup>; Photodetachment; Photodissociation; Cross section; Drift tube; Experimental; Molecule; Negative ion; 15478. SP305-7.

O<sub>2</sub>; Polarizability; Van der Waals; CO; Energy surface; F<sub>2</sub>; Hydrides; LiH<sub>2</sub>; MC-SCF; 15275. SP305-7.

Photodetachment; Photoionization; Drift tube; Ion mobility; Oxygen negative ion; 11482. SP305-2.

Photodissociation; Predissociation; Rydberg states; Valence states; Ion-pair; 15611. SP305-7.

Photoionization; Radicals; Rydberg series; Vacuum ultraviolet; Autoionization; CO<sub>2</sub>; COS; CS<sub>2</sub>; Electronic; Excited states; Heats of formation; Ionization thresholds; Ions; Mass spectrometry; 10274. SP305-1.

Photoionization; Radiolysis; Rate constants; CO; CO<sub>2</sub>; Ion-molecule reactions; J.76A No. 3, 315-322 (1974). SP305-6.

119; 78 μm; H<sub>2</sub>O laser; Laser magnetic resonance; Laser spectroscopy; 13198. SP305-5.

Absorption; Oscillator strength; Transition moment; Ab initio calculation; 15872. SP305-8.

Excited states; Emission spectra; Intersystem crossing; Molecular oxygen in rare gas solids; 16612. SP305-8.

Spectrum; HCN laser; Laser magnetic resonance; Molecular constants of O<sub>2</sub>; 13068. SP305-5.

Δ<sub>2</sub>; Chemical kinetics; Mass spectrometry; Olefins; Rate constant; Singlet oxygen; 13298. SP305-5.

+CO reaction; Charge transfer; CO<sub>2</sub><sup>-</sup>; CO<sub>3</sub><sup>-</sup>; CO<sub>3</sub><sup>-2</sup>; Infrared spectrum; K atom reactions; Matrix isolation; Molecular structure; N<sub>2</sub>O+CO<sub>2</sub><sup>-</sup> reaction; O<sup>-</sup>; 14563. SP305-6.

O<sup>-</sup> reaction; O<sub>3</sub><sup>-</sup> anion; Ultraviolet spectrum; Charge transfer; Electron attachment; Infrared spectrum; Matrix isolation; Molecular orbitals; 12881. SP305-4.

Δ<sub>2</sub> systems; Attachment-detachment reaction; Charge change reaction; Collisional ionization reaction; Evaluated rate constants; Flow field kinetics; TN484. SP305-1.

Δ<sub>2</sub>; Ozone; Vibrationally energy; Kinetics; Laser enhanced reactions; Nitric oxide; 14385. SP305-6.

Δ<sub>2</sub>; Oxygen atoms; Quenching reactions; Upper atmosphere; Hydrogen atoms; Nitrogen atoms; 12090. SP305-

O<sub>3</sub><sup>-</sup>; O<sub>3</sub><sup>-</sup>; Photodetachment; Photodissociation; Cross section; Drift tube; Experimental; Molecule; Negative ion; O<sub>2</sub><sup>-</sup>; 15478. SP305-7.

O<sub>3</sub>; PbO; Chemiluminescence; Electronic states; Gas kinetics; Laser enhanced reactions; J. Res. 80A No. 2, 167-171 (1976). SP305-8.

O<sub>3</sub><sup>-</sup>; Photodetachment; Photodetachment rate measurement; Sunlight; Ion mobility; 12268. SP305-3.

O<sub>3</sub><sup>-</sup>; Photodetachment; Photodissociation; CO<sub>3</sub><sup>-</sup>; CO<sub>3</sub><sup>-</sup>·H<sub>2</sub>O; D region; Electron density; Molecule; Negative ion; O<sup>-</sup>; 15877. SP305-8.

O<sub>3</sub>; Polarizability; Van der Waals; CO; Energy surface; F<sub>2</sub>; Hydrides; LiH<sub>2</sub>; MC-SCF; O<sub>2</sub><sup>-</sup>; 15275. SP305-7.

O<sub>3</sub>; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; CIOO; H-atom reaction; HO<sub>2</sub>; H<sub>2</sub>O<sub>2</sub>; Infrared spectrum; Matrix isolation; Normal coordinate analysis; 12809. SP305-4.

O<sub>3</sub> addition to unsaturates; Oxetane formation in oxidation; Oxidation; Peroxy radicals; Radical isomerization; Surface effects in oxidation; Termination rates; Transition state for termination; Acetylene reaction with O<sub>3</sub>; SP357, pp. 121-129. SP305-4.

O<sub>3</sub><sup>-</sup> anion; O<sub>3</sub><sup>-</sup> anion; Structure; Ultraviolet spectrum; Charge transfer; Infrared spectrum; Isotopic substitution; Matrix isolation; O<sup>-</sup> + O<sub>2</sub> reaction; 12938. SP305-4.

O<sub>2</sub><sup>-</sup> anion; Ultraviolet spectrum; Charge transfer; Electron attachment; Infrared spectrum; Matrix isolation; Molecular orbitals; O<sub>2</sub> + O<sup>-</sup> reaction; 12881. SP305-4.

O<sup>3</sup> atom reaction; Ultraviolet spectrum; Vacuum ultraviolet photolysis; C atom reaction; CN reaction; HN<sub>3</sub> photolysis; Infrared spectrum; Matrix isolation; NCO free radical; NO reaction; 10405. SP305-1.

O<sub>2</sub><sup>-</sup>; Photodetachment; Photodissociation; Cross section; Drift tube; Experimental; Molecule; Negative ion; O<sub>2</sub><sup>-</sup>; O<sub>3</sub><sup>-</sup>; 15478. SP305-7.

O<sub>2</sub><sup>-</sup> anion; Structure; Ultraviolet spectrum; Charge transfer; Infrared spectrum; Isotopic substitution; Matrix isolation; O<sup>-</sup> + O<sub>2</sub> reaction; O<sub>3</sub><sup>-</sup> anion; 12938. SP305-4.

- P; Sn; Susceptibility; Zn; Ag; Al; Alloys; Au; Cd; Cu; Ga; Hg; Hyperfine fields; In; Knight shift; Noble metals; 10837. SP305-1.
- P doped Si; Schottky-barrier; Silicon; Transport properties; Tunneling; Antimony-doped silicon; Arsenic-doped silicon (As doped Si); Band absorption; Band tailing; Depletion layer barrier tunneling; Electronic density of states; SP323, pp. 693-712. SP305-4.
- $\pi$  mesons; Short range correlations; Correlated pairs; High momentum components; Meson nucleus interactions; Nuclear wave function; 10875. SP305-2.
- P representation; Density operator; Electromagnetic field; 11265. SP305-2.
- P representation; Pure states; Quantum optics; Representation theory; Coherent states; Density operator; Distribution theory; Electromagnetic field; Photon statistics; 10860. SP305-1.
- Pacemakers; Palladium black; Platinum black; Polarization; Porous electrodes; Implantable hybrid cells; SP415, pp. 55-61. SP305-7.
- Pacifiers; Product safety; Safety requirements; Safety testing; Consumer products, CPSC proposed regulation; NBSIR 75-733. SP305-7.
- Package control; Petroleum products; Scales; Survey; Temperature compensation; Uniformity; Weights and measures; Digital indicators; Drained weight; Laws and regulations; Metrication; Metric conversion; Net weight; SP407. SP305-7.
- Package control; State authority; Weights and measures; NBS authority; 9808. SP305-1.
- Package quantities of dry milk; Dry milk package quantities; Instant nonfat dry milk; Nonfat dry milk, package quantities of; PS37-70. SP305-3.
- Package quantities of green olives; Green olives, package quantities of; Olives, green, package quantities of; PS40-70. SP305-3.
- Package quantities of ice; Sized ice, package quantities of; Block ice, package quantities of; Crushed ice, package quantities of; Cubed ice, package quantities of; Ice, package quantities of; PS48-71. SP305-3.
- Package quantities of instant mashed potatoes; Potatoes, instant mashed, package quantities of; Instant mashed potatoes, package quantities of; Mashed potatoes, instant, package quantities of; PS41-70. SP305-3.
- Package quantities of toothpaste; Toothpaste, package quantities of; PS50-71. SP305-3.
- Package quantity standards; Voluntary standards; Working with government; Consumer activism; Control proliferation; Industry; Interaction; 15504. SP305-7.
- Packages; Proliferation; Voluntary standardization; Aerosols; Fair Packaging and Labeling Act; 14720. SP305-7.
- Packages; Weights; Commerce; Consumers; Labeling; Measures; 10567. SP305-1.
- Packaging; Proliferation; Quantity standards; Regulations; Consumer commodities; Labeling; 12259. SP305-3.
- Packaging; Size rationalization; State and federal laws and regulations; Labeling; Metric system; 14628. SP305-6.
- Packaging and labeling; Police radar equipment; Standards; Supermarket automation; Weights and measures; Calibration; Communication; Consumers; Grain moisture measurement; Laws and regulations; Measurement; Metric; SP442. SP305-8.
- Packed bed heat exchangers; Balloon; Cryogenic balloon inflation; Heat transfer; Liquid helium; NBSIR 76-834. SP305-8.
- Packet switching; Protocol; Standards; Computer networks; Data communications; Data networks; Networks; 16576. SP305-8.
- Packet-switching; Standards; Computer networks; Data communications; Networks; 16025. SP305-8.
- Packing pressure; Particle size; Silver-tin alloys; Spherical all; Spherical-alloy amalgam; Adaptability; Amalgams; Dental amalgam; Dentistry; Mercury-silver alloys; 9448. SP305-1.
- Packing program; Reformatting; Report generator; Unpack program; File editor; Fixed-field file editor; Fortran program; Insert program; TN444. SP305-1.
- Packless; Reactive; Valve; Bellows; Fluorine; High pressure; 11145. SP305-2.
- Pad; Underlayments; Carpets; Fire; Flammability; Floor coverings; NBSIR 76-1018. SP305-8.
- Padé approximant; Power law; Slope of the coexistence curve; Diameter; Asymmetry; Coexistence curve; Compressibility; Critical exponents; Critical point; Decorated lattice; Hole-particle symmetry; Law of corresponding states; Liquid; 15293. SP305-7.
- Paddle mixers; Slush hydrogen; Turbine mixers; Heat transfer; Liquid hydrogen; Mixing; Mixing power; NBSIR 73-51. SP305-6.
- Padé approximate fluctuations; Opalescence; X-transition; Critical phenomena; Critical point; Second order phase transition; Singularities; M273. SP305.
- Pads; Pillow cases; Pillows; Plastics; Rugs; Sheets; Springs; Upholstered furniture; Upholstery; Bedding; Beds; Blankets; Carpets; Curtains; Drapes; Fabrics; Fibers; Fire; Flammability; Flammable; Floor coverings; TN498-1. SP305-2.
- Paffenbarger, George C.; Schoonover, Irl C.; Souder, William; Specifications, dental; Amalgam, dental; American Dental Association; Casting, dental; Dental research; Dental Research Section, NBS; Guest workers; SP354, pp. 7-10. SP305-4.
- Paging; Pre-processing; Relative error; Thinning; Cross section; Linearization; SP425, pp. 419-421. SP305-7.
- Paint; Activation analysis; Californium-252; Lead; Neutron radiation; 14115. SP305-6.
- Paint; Analysis; Colorimetric; Dithizone; Paint film; Fungicide; Latex; Mercury; 9431. SP305.
- Paint; Pigments; Polymers; Properties; Resins; Selection; Strategies; Surface preparation; Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibitors; Federal specifications; Fire-retardant; Lacquer; Latex; Multicolor; BSS7. SP305-1.
- Paint; Scattering; Spectrophotometry; Absorption; Colorant; Metamerism; 11010. SP305-2.
- Paint; Wire loop; Atomic absorption; Determination; Lead; 16334. SP305-8.
- Paint film; Fungicide; Latex; Mercury; Paint; Analysis; Colorimetric; Dithizone; 9431. SP305.
- Paint removal; Abatement; Barrier materials; Building materials; Housing; Lead-based paint; Lead poisoning; NBSIR 76-761. SP305-7.
- Paint removal; Abatement; Barrier materials; Building materials; Children; Housing; Lead-based paint; Lead poisoning; NBSIR 75-974. SP305-8.
- Painted color chips; Rhombohedral lattice-sampling method; Uniform color scales; Color chips; Color scales; 9824. SP305-1.
- Painted color chips; Uniform color scales; Color chips; Color scales; 9824. SP305-1.
- Paints; Combustibility; Endurance; Fire; Flammability; 9176. SP305.
- Paints; Poisoning; Retail inventory; Statistics; Survey; Lead; Lead paint poisoning; NBSIR 73-407. SP305-6.
- Paints; Water-based paints; Asphaltic tile adhesives; Cement; water-based paints; Concrete surfaces; 10134. SP305-1.
- Paints and inks; Schools, paints and inks; Art education; Paint for art education; PS65-75. SP305-8.



association method; Thermomigration; Diffusion; Dilute alloys; Interstitial solute vacancy pairs; Kinetic theory; 15847. SP305-8.

correlation; Shell model; Spurious; Sum rule; Electron scattering; Momentum transfer; 12043. SP305-3.

correlation and three-atom correlation function; Structure factor; Condensate fraction; Density and temperature; Liquid helium; Neutron diffraction; 14023. SP305-6.

correlation function; Radial distribution function; X-ray diffraction; Liquid; Liquid structure factor; Neutron diffraction; 13114. SP305-5.

correlation function; Short range behavior; Structure factor; Superfluid transition; Ground state wave function; Liquid He; Neutron diffraction data; *J.77A No. 6, 725-731 (1973)*. SP305-5.

correlation function; Single particle probability density; Branching; Freezing points; Metastable fluids; Nonlinear operator; 15178. SP305-7.

correlation function; Three-dimensional ferromagnet; Two-dimensional ferromagnet; Ising ferromagnet; Molecular field approximation; 11166. SP305-2.

correlation function; Triplet correlation function; Closure approximation; Isothermal/density derivative of pair correlation function; Liquid neon; Neutron scattering; 13095. SP305-5.

correlation function; Triplet correlation function; He; Condensate fraction; Ground state wave function; Neutron diffraction; 13943. SP305-6.

correlation function; X-ray diffraction; Density expansion; Liquid structure factor; Liquid theory; Neutron diffraction; 2795. SP305-4.

correlations; Rayleigh component; Spectral weight function; Brillouin component; Dynamic scaling theory; Heisenberg paramagnet; 10833. SP305-1.

distributions; Phase diagrams; Crystal growth; Kinetics; Multicomponent systems; *n*-paraffins; *J.71A4-457, 245-259 (1967)*. SP305.

potential; Paraffins; Polyethylene; Polymers; Pressure; Volume; Anderson-Grüneisen parameter; Bulk modulus; Compressibility; Grüneisen constant; 11677. SP305-2.

potential function; Realistic potential; Second virial coefficient; Spherical potential; Hypergeometric series; London interaction; *J.73A No. 4, 421-423 (1969)*. SP305-1.

potentials; Site model; Calculations; Hydrocarbon crystals; Internal friction; Molecular defects; 16074. SP305-2.

potentials; Temperature perturbation theory; Argon; Compressibility factor; Dense fluids; Equation of state; Molecular dynamics; Molecular interactions; Nitrogen; 12453. SP305-4.

production; Photoelectric absorption; Photons; X-rays; Attenuation coefficient; Compton scattering; Cross section; Energy absorption coefficient; Gamma rays; *NSRDS-NBS29*. SP305-1.

production; Photoelectric absorption; Photons; X-rays; Attenuation coefficient; Compton scattering; Cross section; Energy absorption coefficient; Gamma rays; 10989. SP305-2.

production; Photon polarization; Photons; Positrons; Triplet production; Electrons; 11406. SP305-2.

production; Racah cross section; Total photon cross section; Born approximation; Coulomb field; Moderate energy cross section; *J.72B No. 1, 79-88 (1968)*. SP305-1.

correlation; Quantum-mechanical; Low temperature; 9877. SP305-1.

correlation energy; Shell-correlation energy; Symmetry-adapted; Electron affinity;  $O_2^-$ ; 12821. SP305-4.

ed comparisons; Sign test; Statistics; Camouflage; Design of experiment; Null responses; 14042. SP305-6.

ed spins; Tungsto-heteropoly complexes; CO; Exchange coupling; Fe; Heteropoly complexes; Keggin structures; Magnetic spins; Magnetic susceptibility; 13024. SP305-4.

Paired spins; Tungsto-heteropoly complexes; Co; Fe; Heteropoly complexes; Keggin structures; Magnetic spins; Magnetic susceptibility; 13031. SP305-4.

Pairing; Quartetting; Shell-model; Structure; Wave function; Correlations; Neutrons; 12851. SP305-4.

Pair-potential; Point defects; Computer simulation; Copper; Dislocation structure; *SP317*, pp. 273-283. SP305-3.

Pairs; Point defects; Anelastic relaxation;  $CaF_2$ ; Dielectric relaxation; EPR lifetime broadening;  $GdF_3$ ; 14279. SP305-6.

Pairwise potentials; Redlich Kwong; Second virial coefficient; Thermodynamics; Compressibility factors; Equation of state; High density; High temperature; 11887. SP305-3.

Palladium; Boron hydrides; Deuterium; Iridium; Malonitriledithiolate; Metallaboranes; Nuclear magnetic resonance; Oxidative addition; 16566. SP305-8.

Palladium; Platinum; Precision; Radiochemical separations; Silver; Accuracy; Activation analysis; Copper; Gold; Hafnium; *SP422*, pp. 1157-1164 (Aug. 1976). SP305-8.

Palladium; Polymer in gold; Porosity in gold; Solder plate; Tin-nickel alloy; Tin plate; Underplatings for gold; Wear of gold; Contact lubrication; Corrosion inhibitors; Electrical contacts; Gold plate; *SP452*, pp. 64-71 (Sept. 1976). SP305-8.

Palladium; Salt water; Alloys; Copper; Corrosion, embrittlement; 13094. SP305-5.

Palladium alloy; Restorative dentistry; Dental amalgam; Dental materials; Gallium alloy; 11179. SP305-2.

Palladium alloys;  $Sn^{119m}$  source; Solid solution; Tin; Intermetallic; Mössbauer; 11659. SP305-2.

Palladium black; Platinum black; Polarization; Porous electrodes; Implantable hybrid cells; Pacemakers; *SP415*, pp. 55-61. SP305-7.

Palladium black; Platinum, polarization; Polarization electrode; Standard Sea Water; Conductance; Conductivity; Extrapolation; Faradaic process; Frequency extrapolation; 14360. SP305-6.

Palladium deuteride; Phonon frequency distribution; Single crystal; Coherent neutron scattering; Dispersion relation; Lattice dynamics; 15036. SP305-7.

Palladium distribution ratios; Platinum distribution ratios; Chlorine effect; Counting corrections; Gamma intensity attenuation; Neutron flux depression; Organic liquid sample irradiation; *SP422*, pp. 1181-1187 (Aug. 1976). SP305-8.

Palladium group; Theoretical; Third spectra; Configurations  $4d^9 + 4d^{10}5s$ , energy levels; Interaction parameters; *J.70A5-415, 435-445 (1966)*. SP305.

Palladium hydride; Phonons; Crystal; Fermi surface; Interstitial hydrogen; Lattice dynamics; 14854. SP305-7.

Palladium hydride; Quasielastic scattering; Single crystal; Hydrogen diffusion; Hydrogen in metals; Jump diffusion; Neutron scattering; 13136. SP305-5.

Palladium matrix; Spectroscopy; Isomeric state nuclide; Mössbauer spectroscopy; 10752. SP305-1.

Palladium (Pd); Photoemission; Plasmon; Secondary emission; Silver (Ag); Copper; Dielectric constant; Direct interband transitions; Electronic density of states; Interband transition; Korrington-Kohn-Rostoker (KKR); *SP323*, pp. 181-189. SP305-4.

Palladium (Pd); Platinum; Rhenium; Rhodium; Rigid band approximation; Tantalum (Ta); Thermal conductivity; Thermoelectric power; Transition metal; Transport properties; Tungsten (W); Chromium; Electronic density of states; *SP323*, pp. 685-690. SP305-4.

Palladium (Pd); Rh; Rh-Pd alloys; Ru-Rh alloys; Specific heat; Tight-binding approximation; Electronic density of states; Electronic specific heat; *SP323*, pp. 579-585. SP305-4.

Palladium, tin; Alloys; Antimony; Hyperfine fields; Manganese; Mössbauer effect; 13495. SP305-5.

Palladium-gold alloys; Rigid-band approximation; Electron donation model; Electronic density of states; Gold-palladium

- alloys; Hydrogen absorption; Hydrogen in palladium-gold alloys; *SP323*, pp. 727-729. **SP305-4.**
- Palmer-Bowles flumes; Sewage flow measurement; Flow measurement, water; Flumes, measuring; Open channel flow measurement; *15738*. **SP305-8.**
- Paneling, hardboard; Finished hardboard paneling; Hardboard paneling; *P559-73*. **SP305-6.**
- Panels, glass-fiber reinforced polyester; Plastic panels, structural; Structural panels; Glass-fiber reinforced polyester panels; *P553-72*. **SP305-4.**
- Panoramic x ray; Silicate cement; Turbine handpiece; Amalgam; Composite materials; Dental gold alloys; Dental research; *16212*. **SP305-8.**
- Paper; Energy; Industrial; *SP403*, pp. 153-161 (June 1976). **SP305-8.**
- Paper; Paper aging; Tests for paper; Accelerated aging; Aging; Aging of cellulose; Aging of paper; Cellulose; Cellulose aging; Natural aging; *NBSIR 74-499*. **SP305-6.**
- Paper; Paper test methods; Restoration; Restoration of paper; Test methods for paper; Treatment of paper; *14658*. **SP305-6.**
- Paper; Petroleum; Resources; Standards; Steel; Thermal; Thermodynamics; Automobile; Break-even analysis; Conservation; Cooling; Economics; Energy; Environment; Fuel; Heating; Imports; Industry; Management; Manufacturing; *SP403*. **SP305-8.**
- Paper; PH; Records; Reflectance; Specifications; Stability; Wet breaking load; Accelerated aging; Dry breaking load; *14605*. **SP305-6.**
- Paper; PH; Suspension; Acidity; Contact; Decantate; Electrode; Error; Extract; *NBSIR 75-915*. **SP305-8.**
- Paper; Photographs; Preservation of records; Prints; Records; Repair of records; Storage of records; Slides; Films; Negatives; *C155*. **SP305-4.**
- Paper; Precision; Reliability; Reproducibility; Standards; Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; Foil paper; Instrument characteristics; Materials testing; *11706*. **SP305-2.**
- Paper; Precision; Standards; Test methods; Accuracy; *11038*. **SP305-2.**
- Paper; Preservation of records; Records; Stability; Degradation; *11665*. **SP305-2.**
- Paper; Preservation of records; Records; Stability; Degradation; *11525*. **SP305-2.**
- Paper; Strains; Stiffness; Stresses; Accelerating (process); Aging; Break resistance; Cross-linking; Crystal structure; Dimensional stability; *11626*. **SP305-2.**
- Paper; Sucrose; Animal glue; Glucose; Glycerol; Mannitol; Melamine resin; *9455*. **SP305-5.**
- Paper aging; Tests for paper; Accelerated aging; Aging; Aging of cellulose; Aging of paper; Cellulose; Cellulose aging; Natural aging; Paper; *NBSIR 74-499*. **SP305-6.**
- Paper, aging of; Paper, stability of; Paper testing; Stability of paper; Aging of paper; Archival materials; Natural aging; Old paper; *NBSIR 74-501*. **SP305-7.**
- Paper and paperboard; Paper, paperboard, flame-resistant; Paperboard, paper, flame-resistant; Flame-resistant; *P546-71*. **SP305-3.**
- Paper caps; Standard apparatus; Toys; Acoustics; Cap guns; Children; Consumer safety; Hearing damage; Noise; *TN793*. **SP305-5.**
- Paper chromatography; Radiometric methods; Analysis; Co; Cu; Fe; Mn; NBS Standard Reference Material 671; Nickel oxide; *9875*. **SP305-1.**
- Paper degradation; Smoke test; Antenna performance; COBOL; Environmental buoy cables; Highway repair costs; Incentives program; Innovators; *TNB 57*, No. 7, 153-176 (1973). **SP305-5.**
- Paper honeycomb; Performance criteria; Structural sandwich; Accelerated aging; Adhesives; Bonded structures; Durability; Glass fiber reinforced plastics; Housing systems; Operation; **BREAKTHROUGH**; *SP361*, Vol. 1, pp. 761-775. **SP305-4.**
- Paper honeycomb; Roof/ceiling assembly; Structural sandwich panel; Exterior wall; Fire endurance; Fire test; Housing systems; Operation **BREAKTHROUGH**; *13394*. **SP305-5.**
- Paper honeycomb; Roof/ceiling assembly; Structural panel; Fire endurance; Fire test; Flame-through failure, structural panel; Glass-fabric reinforced plastic; Housing systems; Operation **BREAKTHROUGH**; *13408*. **SP305-5.**
- Paper honeycomb; Sandwich facings; Sandwich panels; Adhesives; *B5543*. **SP305-4.**
- Paper honeycomb; Structural panel; Fire endurance; Fire test; Flame penetration; Floor assembly; Housing systems; Operation **BREAKTHROUGH**; *13405*. **SP305-5.**
- Paper honeycomb; Structural panel; Fire endurance; Fire test; Flame penetration; Glass reinforced plastic; Housing systems; Interwalling wall; Modular construction; Operation **BREAKTHROUGH**; *13407*. **SP305-5.**
- Paper honeycomb; Structural sandwich; Sustained load; Accelerated aging; Adhesive bond; Ductility; Flexural strength; Housing systems; Local buckling; Material variability; Moisture conditioning; Operation **BREAKTHROUGH**; *B5551*. **SP305-6.**
- Paper ice bag sizes; Bag sizes, ice; Ice bag sizes; *PS44-7*. **SP305-3.**
- Paper, light-sensitive; Standard Fading Hour; Wool standard; Appreciable fading; Fading; Light-sensitive paper; *1175*. **SP305-2.**
- Paper, light-sensitive; Textiles, fading of; Carbon-arcs, standardization of; Color-fastness, testing of; Fading tests, standardization; Light-sensitive paper; *SP260-41*. **SP305-4.**
- Paper machines; Planning; Standards; United States; Units measures; Changeover; Foreign trade; Metric system; *129*. **SP305-4.**
- Paper, paperboard, flame-resistant; Paperboard, paper, flame resistant; Flame-resistant; Paper and paperboard; *P546-SP305-3.*
- Paper perforator tape; Data processing; Federal Information Processing Standard; Information interchange; Information processing; Paper tape; *FIPS PUB 26*. **SP305-5.**
- Paper perforator tape; Data processing; Federal Information Processing Standard; Information interchange; Information processing; Paper tape; *FIPS PUB 27*. **SP305-5.**
- Paper, permanent; Paper, stability; Permanent papers; Record papers; Stability of paper; Accelerated aging; Aging; Natural aging; *NBSIR 74-632*. **SP305-7.**
- Paper records; Stability; Stability of cellulose; Stability of paper; Thermal analysis; Acidity; Aging; Alum sorption; Laboratory aging; Manifold; *11789*. **SP305-2.**
- Paper research; Preservation of records; Tear reference; Timing program; Appearance properties; *11842*. **SP305-3.**
- Paper, stability; Permanent papers; Record papers; Stability of paper; Accelerated aging; Aging; Natural aging; Paper, permanent; *NBSIR 74-632*. **SP305-7.**
- Paper, stability of; Paper testing; Stability of paper; Aging of paper; Archival materials; Natural aging; Old paper; Paper aging of; *NBSIR 74-501*. **SP305-7.**
- Paper tape; Paper perforator tape; Data processing; Federal Information Processing Standard; Information interchange; Information processing; *FIPS PUB 26*. **SP305-5.**
- Paper tape; Paper perforator tape; Data processing; Federal Information Processing Standard; Information interchange; Information processing; *FIPS PUB 27*. **SP305-5.**
- Paper test methods; Collaborative reference program; Interlaboratory testing; Laboratory performance; *15274*. **SP305-6.**
- Paper test methods; Restoration; Restoration of paper; Test methods for paper; Treatment of paper; Paper; *14658*. **SP305-6.**

er testing; Stability of paper; Aging of paper; Archival materials; Natural aging; Old paper; Paper, aging of; Paper, stability of; *NBSIR 74-501*. SP305-7.

er, waste; Pulp, secondary; Recycled paper; Secondary pulp; Waste paper; Market pulp; *15604*. SP305-7.

erboard, paper, flame-resistant; Flame-resistant; Paper and paperboard; Paper, paperboard, flame-resistant; *PS46-71*. SP305-3.

ers; Carbohydrate materials; Differential thermal analysis; *1323*. SP305-2.

ers available; Stereology; Toy safety; X-ray units; Computer power; Computer standard; Corrosion; Environment; Health care; Housing production; I-R 100 awards; NIKE missile; *IMI/NBS 60*, No. 11, 1-24 (1976). SP305-8.

er, and meta linked polymers; Pendant pentafluorophenyl group; Polyperfluorophenylene ethers; Polyperfluorophenyl ethers; Sulfides; Vinyl ethers; Fluorinated styrenes; Aromatic polymers; *9999*. SP305-1.

olic class number; Classical modular group; Congruence groups; Elliptic class numbers; Genus; Index; Level; *15006*. SP305-7.

olic class number; Quotient surface; Split extension; Factor set; Group extension; Level; Modular group; *9317*. SP305-7.

olic classes; Automorphisms; Elliptic classes; Finite fields; Genus; Modular group; Natural homomorphism; *14972*. SP305-7.

olic classes; Congruence groups; Modular group; Normal subgroups; *9375*. SP305.

olic classes; Fuchsian groups; 2-generator groups; *12704*. SP305-4.

olic cylinder functions; Resonance; Rotating disks; Singular perturbations; Turning-point; Viscous flow; Weber's equation; Boundary-value problem; Eigenvalues; *16459*. SP305-8.

olic cylinder functions; Turning points; Wave scattering; Weber functions; Asymptotic approximations; Connection formulas; Error bounds; Ordinary differential equations; *946*. SP305-7.

olic cylinder functions; Turning points; Weber functions; Asymptotic approximations; Error bounds; Legendre functions; *14947*. SP305-7.

olic cylinder functions; Turning points; Uniform asymptotic approximations; Weber's equation; Error bounds; *J. Res. NBS* No. 4, 437-440 (1976). SP305-8.

olic law for metal oxidation; Semiconductors; Conductivity; Electric field effects; Insulating films; Insulators; Metal oxidation; Metals; MOM devices; Oxidation; Oxidation theory; *260*. SP305-8.

olic mirrors; Stray radiant energy; Transmittance; Beam non-uniformity; Circular entrance and exit apertures; High accuracy spectrophotometer; Linearity; *TN729*. SP305-4.

olic potential model; Sinusoidal potential model; Two-site model; Activation energy; Chain twisting; Hindered rotator; *451*. SP305-1.

olic triangle group; Prime ideal; Domain of discontinuity; Hilbert characteristic; Fundamental polyhedron; Hilbert nullstellensatz; Hyperbolic space; Kleinian group; Limit set; *646*. SP305-1.

olic triangle group; Prime ideal; Region of discontinuity; Invariant subgroups; Fuchsian group; Hilbert nullstellensatz; Invariant group; *9758*. SP305-1.

olomophenyl; Preparation; Spectra; Study; Infrared; Intol; Osotriazole; *12450*. SP305-4.

ol; Rotator phase; Molecular dynamics; *n*-alkanes; *n*-nonadecane; Neutron scattering; *13656*. SP305-5.

ol; Rotator phase; Wide-line NMR; Molecular rotation; *MR* second moment; *n*-nonadecane; *14018*. SP305-6.

ol; Chain salt salts; Selected values; Soap; Solubilization; Standard values; Surface active agents; Surface chemistry; Sur-

face tension; Surfactant; Association colloid; Bibliography; CMC; Colloid; Colloidal electrolyte; *NSRDS-NBS36*. SP305-3.

Paraffin crystals; Plastic deformation; Polymer crystals; Radiation damage; X-ray topography; Microstructure; *15433*. SP305-7.

Paraffins; Cryogenics; Crystallinity; Density; Expansion; *16184*. SP305-8.

Paraffins; Polyethylene; Polymers; Pressure; Volume; Anderson-Grüneisen parameter; Bulk modulus; Compressibility; Grüneisen constant; Pair potential; *11677*. SP305-2.

Paraffins; Polyethylene; Potential energy calculations; Relaxation strength; Two-site model; Mechanical relaxation; Methyl branches; *14752*. SP305-7.

Paraffins; Polyethylene; Potential energy calculations; Relaxation mechanism; Relaxation strength; Site model; Mechanical relaxation; Methyl branches; *15329*. SP305-7.

Paraffins; Polyethylene; Unit cell; X ray; Crystal surfaces; Density; Lamella thickness; *14724*. SP305-7.

Paraffins; Propylene; Pyrolysis; Rate constants; Unimolecular theory; Acetylene; Dissociation; Elementary reactions; Ethane; Ethylene; Hydrocarbons; Kinetics; Mechanism; Methane; Olefins; *SP357*, pp. 17-25. SP305-4.

Paraholography; Reverberation chambers; Sound propagation; Acoustics; Acoustical holography; Acoustical measurement; *14796*. SP305-7.

Parahydrogen; *J70A6-425, 541-544* (1966). SP305.

Para-hydrogen; Photodissociation; Deuterium; Electron affinity; Hydrogen atom; Ion-pair formation; *14161*. SP305-6.

Parahydrogen; Polarizability; Solid density; Dielectric constant; Melting pressure; *10810*. SP305-1.

Parahydrogen; Pressure; Saturated liquid; Tables; Temperatures; Uncertainties; Volume; Volume correction factor; Argon; Compressed liquid; Density; Graphs; Liquid; Nitrogen; Oxygen; *TN361, Revised October 1972*. SP305-5.

Parahydrogen; Pressure; Saturated liquid; Temperature; Uncertainties; Volume; Argon; Density; Nitrogen; Oxygen; *TN361*. SP305-1.

Parahydrogen; Pressure; Saturated liquid; Tables; Temperature; Uncertainties; Volume; Argon; Compressed liquid; Density; Density ratios; Liquid; Nitrogen, oxygen; *TN361. (Revised)*. Metric Supplement. SP305-6.

Parahydrogen; Pressure-volume; Properties; Temperatures; Triple-point region; T-S diagram; Enthalpy; Entropy; *TN343*. SP305.

Parahydrogen; PVT-relations; Thermodynamic properties; Equation of state; Hydrogen; *J71A3-452, 203-218* (1967). SP305.

Parahydrogen; Refractive index; Clausius-Mossotti function; Lorentz-Lorenz function; Molecular polarizability; Orthopara composition; *10906*. SP305-2.

Parahydrogen; Saturated liquid and vapor densities; Coexistence; Coexistence temperatures; Critical constants; Critical density; Critical temperatures; Fluorine; Neon; Oxygen; Orthobaric densities; *J74A No. 2, 221-227* (1970). SP305-2.

Parahydrogen; Shear viscosity; Temperature dependence; Viscosity of parahydrogen; Liquid normal hydrogen; *9201*. SP305.

Parahydrogen; Specific heat; Thermodynamic function; Density; Heat of vaporization; Hydrogen; *9246*. SP305.

Parahydrogen; Specific heats; Thermodynamic properties; Critical point; Equation of state; Hydrogen; *J73A No. 6, 585-591* (1969). SP305-1.

Parahydrogen; Thermal conductivity; Critical region; Normal hydrogen; *11827*. SP305-3.

Parahydrogen; Thermal conductivity; Critical region; *11734*. SP305-2.

- Parahydrogen; Translational absorption; Absorption coefficient; Absorption mechanisms; Infrared; Liquid hydrogen; Orthohydrogen; *11504. SP305-2.*
- Paraldehyde; Relaxation; *cis*-1,3,5-trimethylcyclohexane; Dielectric; Dipole moment, gas; Microwave absorption; *14555. SP305-6.*
- Parallel plate method; Thermal conductivity; Capacitance method; Critical density; Experimental measurement; Helium gas; *10705. SP305-1.*
- Parallel pump susceptibility; Sample heating; Saturation; *10420. SP305-1.*
- Parallel-by-bit; Parity sense; Serial-by-character; Telecommunications; Teleprocessing; American Standard Code for Information Interchange; ASCII; Character structure; Communications; Data transmission; *FIPS PUB 18. SP305-3.*
- Parallelism; Flatness; Gage blocks; Interferometry; Length measurement; *11519. SP305-7.*
- Parallel-plate; Rotating cylinder; Standard reference material; Viscosity; Viscosity standard; Beam-bending; Borosilicate glass; Glass viscosity; *SP260-23. SP305-2.*
- Paramagnetic; Antiferromagnetic; Dipolar interaction;  $\text{DyPO}_4$ ; Low temperature; Magnetic field; *12406. SP305-4.*
- Paramagnetic; Reagent; Superoxide; Spectra; Structure; Alkaline; Complex; Copper, e.s.r.; Ligand; *J74A No. 5, 723-731 (1970). SP305-2.*
- Paramagnetic; Soft x-ray; Transition probability; Density of states; Emission spectrum; Linear detection; Nickel; Oxide free; *10334. SP305-1.*
- Paramagnetic compounds; Adiabatic magnetization; Cerium compounds; Cerium magnesium nitrate; Low temperature thermometry; Magnetic temperature; *14195. SP305-6.*
- Paramagnetic metal;  $t$ -matrix; Antiferromagnetic insulator; First order phase transition; Half-filled narrow energy band; Mott state; *SP323, pp. 527-541. SP305-4.*
- Paramagnetic relaxation; Faraday effect; *10894. SP305-2.*
- Paramagnetic relaxation; Paramagnetic resonance; Vanadium tetrachloride; Jahn-Teller distortion; Ligand field; Magnetic susceptibility; *10758. SP305-1.*
- Paramagnetic relaxation; Temperature dependence;  $\text{TiO}_2$ ;  $\text{Mo}^{4+}$ ; *10628. SP305-1.*
- Paramagnetic resonance;  $\text{CdF}_2$ ;  $\text{Dy}^{3+}$ ; *16051. SP305-8.*
- Paramagnetic resonance; Quadrupole transitions; Spin Hamiltonian; Transition probabilities; Ultrasonic (paramagnetic) resonance; Ultrasonic transition probabilities; Wave functions of  $\text{Fe}^{+++}$ ; *J73A No. 2, 241-268 (1969). SP305-1.*
- Paramagnetic resonance; Spectroscopy; Tools, analytical; Analytical tools; Electron paramagnetic resonance; Nuclear magnetic resonance; *9701. SP305-1.*
- Paramagnetic resonance; Vanadium tetrachloride; Jahn-Teller distortion; Ligand field; Magnetic susceptibility; Paramagnetic relaxation; *10758. SP305-1.*
- Paramagnetic resonance spectrum; Resonance; Rutile; Tungsten; *9632. SP305-1.*
- Paramagnetic resonance spectrum; Tetrakis- $t$ -butoxyvanadium; Electron paramagnetic spectrum; *9855. SP305-1.*
- Paramagnetic salt; CMN; Cryomagnetism; Low temperature specific heat; Magnetic dipole interaction; *14834. SP305-7.*
- Paramagnetic salt; Specific heat; Susceptibility; Thermometer scale; Cerous magnesium nitrate; Dipole system; Low temperature; *11822. SP305-3.*
- Paramagnetic salt; Temperature scale; Cerous magnesium nitrate; Low temperatures; Magnetic cooling; Magnetic thermometer; *10991. SP305-2.*
- Paramagnetic salts; Low temperatures; *13116. SP305-5.*
- Paramagnetic salts; Platinum resistance thermometers; Ac-dc resistance thermometry; Ac susceptibility; Gadolinium sulphate; Germanium resistance thermometers; IPTS-68; Low temperature scales, 1-83 K; Magnetic thermometer; Mangano ammonium sulphate; *15903. SP305-8.*
- Paramagnetic susceptibility; Thermometry; CMN; Low temperature; *10990. SP305-2.*
- Paramagnetism; Be; Cr; Ferromagnetism; Hyperfine field; Nuclear magnetic resonance; *11203. SP305-2.*
- Paramagnetism; Beryllium; Ferromagnetism; Intermetallic compounds; Magnetic moment; Nuclear magnetic resonance; *11481. SP305-2.*
- Paramagnetism; Polarizabilities; Alkali earth oxides; Alkali hydrides; Deformation; Diamagnetism; Ionic; Ionic sizes; Kinetic energy; *10224. SP305-1.*
- Paramagnetism; Superconductivity; Temperature; Fixed point; *14178. SP305-6.*
- Paramagnetism; Superconductivity; Temperature; Josephson junctions; Noise thermometer; Nuclear orientation; *TN82. SP305-6.*
- Paramagnetism; Superconductivity; Temperature; Acoustic thermometry;  $\gamma$ -ray anisotropy thermometry; Noise thermometry; Nuclear magnetic resonance; Nuclear quadrupole resonance; *TN830. SP305-6.*
- Paramagnetism; TCNQ compounds; Magnetic susceptibility; Organic conductors; *14350. SP305-6.*
- Parameter; Probabilities; Random sample; Two-point binomial; Variance; Distribution; *10987. SP305-2.*
- Parameter; Reactivity; Lattices; Nuclear data; *SP425, pp. 7-1. SP305-7.*
- Parameter control; Pharmacological data; Chemical data; Computers; Information retrieval; Information storage; Information systems; *11389. SP305-2.*
- Parameter control; Process uniformity; Random faults; Reliability; Test patterns; TTL; Vendor qualification; Circuit procurement; Component screening; Custom circuits; LSI; Microelectronics; *16620. SP305-8.*
- Parameter correlation; Random errors; Slit function; Slit width; Resonance width ratio; Systematic errors; Beutler-Fa resonance profiles; Least squares analysis; *11578. SP305-2.*
- Parameter definition; Performance criteria; Design evaluation; Design specification; Design synthesis; Environmental systems; Goal statements; *SP361, Vol. 1, pp. 1-12. SP305-4.*
- Parameter differentiation; Quantum statistics; Similarity transformations; Weyl prescription; Baker-Campbell-Hausdorff formula; Density matrix; Differential equations; Expansion; Exponential operators; Harmonic oscillator; Lie algebra; *10130. SP305-1.*
- Parameter estimation;  $p$ - $V$ - $T$ ; Statistical weighting; Thermodynamic properties; Constraints; Equation of state; Fluctuation; *15132. SP305-7.*
- Parameter jump method; Polystyrene; Relaxation method; Thermogravimetry; Weight-loss; Degradation; Kinetics; Calibration; *15858. SP305-8.*
- Parameter selection; Second virial coefficients; Transport properties; Dispersion coefficients;  $M$ -6-8 potential; *TN6. SP305-5.*
- Parameters; Performance; Performance terminology; Predictability; Requirements; Variables; Workload; Computer system factors; Measurement; *SP406, pp. 53-60. SP305-7.*
- Parameters; Second spectra; Copper; Energy levels; Interaction configurations; Odd configurations; *J73A No. 599-609 (1969). SP305-1.*
- Parameters; Theory; Vanadium;  $V$  I; Zeeman effect; Configurations in  $V$  I; Configurations  $(3d + 4s)^4 4p$  in  $V$  I; Configuration interaction; *J74A No. 2, 141-156 (1970). SP305-2.*
- Parameters; Theory; Zeeman effect; Chromium; Configuration interaction;  $Cr$  I; Configurations  $(3d + 4s)^4 4p$  in  $Cr$  I; Configuration interaction;  $Cr$  I; *J74A No. 2, 157-179 (1970). SP305-2.*
- Parameters of bound level of Ar-36; *SP425, pp. 774-775. SP305-7.*
- Parameters, theory; Energy levels;  $g$ -factors; Nickel; *J76A No. 2, 125-136 (1972). SP305-4.*
- Parametric; Analog; Josephson junction; Mixing; *13480. SP305-5.*



metric; Magnetic transitions; Magnetic and quadrupole split energy levels; Nuclear magnetic resonance; 11152. SP305-2.

metric amplifier; Active; Demodulation; Gyration; Harmonic generation; Modulation; Nonlinear; 10593. SP305-1.

metric amplifier; Varactor amplifier; Audio amplifier; capacitance bridge detector; Noise reduction; Null detector; 10891. SP305-2.

metric analysis; Transportation vehicle; Utility functions; computer algorithm; Iterative equation; Optimal scheduling; 10185. SP305-1.

metric calculations; Complex dielectric constant; Energy-loss interpretation; Inelastic electron scattering; Optical properties; 11424. SP305-2.

metric capacitance; Josephson effect; 13356. SP305-5.

metric equation; Scaling laws; Carbon dioxide; Critical phenomena; Critical region of gases; Equation of state; 1677. SP305-6.

metric equation of state; Scaling laws; Critical phenomena; equation of state; 12441. SP305-4.

metric form; Scaling; Thermodynamic properties; Coexistence curve; Critical point; Liquid-gas phase transition; 1156. SP305-3.

metric oscillator; Superconducting oscillator; Cavity stabilization; Frequency multiplication; Tunnel diode oscillator; 1676. SP305-7.

metric plasma instability; Photon induced excitation; Carrier mobility; Damping rates; Laser damage of semiconductors; 1662, pp. 357-364 (Dec. 1976). SP305-8.

metric plasma instability; Resonant plasmon-photon interaction; Solid state plasma; Electron avalanche; Electron heating in alternating fields; Laser damage of GaAs; Laser annealing processes; Laser-induced surface damage; SP387, pp. 7-224. SP305-5.

metric programming; Post-optimality analysis; Algorithms; linear programming; NBSIR 75-666. SP305-7.

metricization of cusp forms; Eisenstein series; Hecke group; group; Modular form; J.74B No. 3, 131-148 (1970). SP305-2.

periodic acid; Polycyclic aromatic hydrocarbons; Reaction mechanism; Sodium periodate; Aprotic solvent; 10285. SP305-1.

jets; Roof projections; Static pressures; Wind effects; Wind tunnel modeling; Architectural features; Buildings; Mullions; 530, pp. 73-86. SP305-3.

quark model; Symmetric quark model; Three-triplet quark model; Color-quark model; Current algebra and pcc; Non-tomonic  $\Omega^-$  decays; 14569. SP305-6.

osanine cyanide; Radiochromic dyes; Triphenylmethane dyes; Dosimetry; Dyes; Gamma rays; Nitrobenzene; Oxidation; 13533. SP305-5.

osanine cyanide; 4,4',4''-triarylnitrophenylacetone; triphenyl-methane dyes; Dosimetry; Dyes; Dye yield; Gamma rays; 14292. SP305-6.

osanine method; Quality control; Reference materials; sulfur dioxide; Air pollution; Chemical analysis; NBSIR 75-2. SP305-7.

otic element; S-parameters; High frequency probe assembly; Integrated circuit transistors; TN663. SP305-7.

otic suppression; Disc lasers; Laser amplifiers; Laser gain; SP414, pp. 17-22. SP305-6.

ual; Strong lenses; Two-tube electrostatic lens; Weak lenses; Focal properties; Matrix elements; 14151. SP305-6.

ual; Two-tube electrostatic lens; Weak lenses; Focal properties; Near-unity voltage ratios; Object-image curves; 1170. SP305-6.

ual electron trajectories; P-Q curves; Two-tube electrostatic lens; Electric field; First-order focal properties; 12665. SP305-4.

Parent ions; Charge transfer reactions; Cycloalkanes; Cyclohexane; Gas phase; Methylcyclopentane; 14899. SP305-7.

Parity; Relativity; Space inversion; Time reversal; Charge conjugation; 14388. SP305-6.

Parity sense; Serial-by-character; Telecommunications; Teleprocessing; American Standard Code for Information Interchange; ASCII; Character structure; Communications; Data transmission; Federal information processing standards; FIPS PUB 18. SP305-3.

Parity-violation; Internucleon-force; 15083. SP305-7.

Park-and-ride; Shirley Highway; Transportation planning; Bus-on-freeway operations; Commuter surveys; Mode choice decisions; NBSIR 75-689. SP305-7.

Parkerite; Shandite; Sulfides; Chalcogenides; 14123. SP305-6.

PARLORS program for Mossbauer spectra; Mossbauer instrumentation; Mossbauer laboratories; Radiometric trace chromatography; Radioisotope dilution; Substoichiometry by controlled potential coulometry; Radiochemical separations; TN404. SP305.

PARLORS program for Mossbauer spectra; Photoneutron reaction; Solid state detectors; Standard reference materials; Tin standard for chemical shift; Computers; Cross sections; Detection limits for analysis; Flux monitors; Mossbauer instrumentation; TN421. SP305.

Parsing; Arbitrary input strings; Context-free grammars; Dynamic programming; 13993. SP305-6.

Parsons black; Retro-reflectance; Absorbance; Black coatings; Cavity absorbance; Cavity reflectance; Laser-source reflectometer; TN575. SP305-3.

Partial; Isometry; Generalized inverse; Matrix; J.71B4-247, 225-228 (1967). SP305.

Partial; Photoabsorption cross sections; Photodissociation; Photoexcitation; Photoionization; Photon-scattering; Total; Ultraviolet cross sections; Aeronomics; Astrophysical; NBSIR-75-338. SP305-3.

Partial closure design; Standard deviation; Subdivision; Variance-covariance matrix; Angle standard; Autocollimator; Calibration; Complete closure design; Indexing table; Least squares estimation; NBSIR 75-750. SP305-8.

Partial coherence; Coherence measurement; Microdensitometry; Optical imaging; 14545. SP305-6.

Partial coherence; Coherence measurement; Microdensitometry; Optical imaging; 15290. SP305-7.

Partial coherence; Linear optical systems; Microdensitometry; Optics; 14500. SP305-6.

Partial coherence; Pupil function; Wave-front shearing interferometry; Impulse response; Lens aberrations; Optical transfer function; 15396. SP305-7.

Partial coherence; Spectrograph slit; Diffraction; 9940. SP305-1.

Partial coherence slit illumination; Resolution; Spectroscopic slit; Diffraction; Luminosity; Optimal performance; 9941. SP305-1.

Partial differential equations; Demand; Elasticity; Mathematical economics; J.72B No. 1, 43-60 (1968). SP305-1.

Partial differential equations; Hyperbolic system; Mixed initial boundary; Outgoing data; 11026. SP305-2.

Partial differential equations; Semilinear; Analytic continuation; Analyticity; Complex variables; Elliptic type; First order systems; 13019. SP305-4.

Partial differential equations; Semiconductor technology; Diffusion equations; Finite-difference techniques; Impurity redistribution; Moving boundary problems; Numerical methods; 15175. SP305-7.

Partial differential equations; Stress waves; Wave propagation; Characteristics; Impact; Linear viscoelasticity; J.70B4-187, 257-264 (1966). SP305.

- Partial differential equations; Stratified flow, internal waves, buoyant flows; Fluid dynamics; Fundamental solution, initial value problem; *J. Res.* 80B No. 1, 79-88 (1976). **SP305-8.**
- Partial differential equations; Transverse impact; Wave propagation; Waves in strings; Characteristics; Finite-difference equations; Linear viscoelasticity; *J.72B No. 3, 201-214 (1968).* **SP305-1.**
- Partial differentiation; Product rule; Tensor function; Trace; Chain rule; Continuum mechanics; Gradient; Matrices; Matrix calculus; *J.75B, Nos. 3 and 4, 97-107 (1971).* **SP305-3.**
- Partial dislocations; Twinning; Zonal dislocations; Dislocation dissociation; Lattice shuffling; *SP317, pp. 495-529.* **SP305-3.**
- Partial Grottrian diagrams; Atomic spectra; Grottrian diagrams; *NSRDS-NBS23.* **SP305-1.**
- Partial isometry; Generalized inverse; Matrix; *J.71B2&3-200, 65-67 (1967).* **SP305.**
- Partial melting; Rare earth elements; Trace element models; Volcanic rocks; Analytical techniques; Fractional crystallization; Geochemistry; Isotope dilution; *SP422, pp. 937-949 (Aug. 1976).* **SP305-8.**
- Partial melting; Recrystallization; Rubber; Slow melting; Stark rubber; Crystal size; Crystallized rubber; Heating rate; Melting range; Melting temperature; Oriented; *J.71A3-455, 225-229 (1967).* **SP305.**
- Partial melting; Recrystallization; Rubber; Slow melting; Stark rubber; Crystallized rubber; Crystal size; Heating rate; Melting range; Melting temperature; Oriented; *11436.* **SP305-2.**
- Partial molal heat effect; Sodium molybdate-molybdenum trioxide system; Calorimetry; Complex salts; Composition of complex salts, determination of; Fused salts; *10515.* **SP305-1.**
- Partial molal properties; Thermochemistry; Thermodynamics; Review articles; Water pollution; Aqueous systems; Bibliography; Biochemical systems; Enthalpy data; Entropy data; Equilibrium data; Gibbs energy data; Heat capacity data; *SP454.* **SP305-8.**
- Partial pressure measurements; Pressure calibration with vapor pressures; Pressure anisotropy; Pumping efficiency; Pumping speed; Speed factor measurements; Sticking coefficient; Vacuum techniques; Capture coefficient; Cryocondensation; *10265.* **SP305-1.**
- Partial specific volume; Solvation; Collagen; Denaturation; Dilatometry; Hydration; *10300.* **SP305-1.**
- Partial wave branching; Uranium-233; Alpha particles; Americium-243; Angular correlations; Neptunium-237; *9799.* **SP305-1.**
- Partial widths; Potential curve; Predissociation; Vibrational overlap; Born-Oppenheimer; Hartree-Fock; Molecular hydrogen; *12102.* **SP305-3.**
- Partially balanced incomplete block designs; PBIB designs; Statistics; Tables of PBIB designs; Analysis of PBIB designs; Experiment designs; Finite fields; Finite geometries; Finite projective planes; Incidence matrices; *AMS63.* **SP305-5.**
- Partially coherent imaging; Resolution; Resolving power; Tri-bar targets; Coherence; *12320.* **SP305-3.**
- Partially crystalline polymer; Polyethylene; Linear and branched; Temperature drift method; Calorimetry; Glass transition temperature; *13253.* **SP305-5.**
- Participation; Property; System; Test method; ASTM; Classification; Fire hazard; *16124.* **SP305-8.**
- Particle; Plastic; Plumbing; Porcelain; Sieve; Silica; Sinks; Abrasives; Bathtubs; Cleansers; Detergents; *10135.* **SP305-1.**
- Particle accelerators; Radiation measurement standards; Radiation power; Radiation processing; X rays; Electrons; Nuclear physics; *9852.* **SP305-1.**
- Particle accelerators; Radiation measurements; Radiation protection; Standard; Accelerator design; Accelerator operation; Health physics; *1107.* **SP305-2.**
- Particle accelerators; Rem; Concrete walls; Neutron shielding; *14691.* **SP305-6.**
- Particle analysis; Continuous radiation; Electron probe microanalyzer; Glass standard; Lithium drifted silicon detector; Monte Carlo; *SP422, pp. 1283-1291 (Aug. 1976).* **SP305-8.**
- Particle analysis; Particulates; Raman spectroscopy; Fine particles; Laser Raman; Micro-Raman; *15362.* **SP305-7.**
- Particle analysis; Plastic deformation; Surfaces; Wear; Wear debris; X-ray analysis; Copper; Electron channeling; Electron microscope; Metals; *NBSIR 76-1141.* **SP305-8.**
- Particle analysis; Quantitative x-ray microanalysis; Thin film X-ray emission; Electron trajectories; Magnetic effect; Monte Carlo calculations; Multiple scattering x-ray generation; *SP460, pp. 105-128 (Dec. 1976).* **SP305-8.**
- Particle analysis; Scanning electron microscopy; Thin film analysis; Electron probe microanalysis; Electron-solid interactions, magnetic domains; Monte Carlo electron trajectory calculations; *SP460.* **SP305-8.**
- Particle concentration; Particle counting; Particle size; Particulates; Standard reference materials; Fine particle standards; *16337.* **SP305-8.**
- Particle counting; Particle size; Particulates; Standard reference materials; Fine particle standards; Particle concentration; *16337.* **SP305-8.**
- Particle detection by impact; Particle size measurement; Piezoelectric crystal; Quartz crystal microscope; Aerosol size; Cascade impactor; *SP412, pp. 137-148.* **SP305-6.**
- Particle detectors; Hypervelocity; Impact damage; Micrometeoroid; *SP336, pp. 915-933.* **SP305-3.**
- Particle detectors; Spectrograph; Chip detectors; Ferrograph; Lube oil analysis; Magnetic drain plugs; Oil filters; Oil motors; *NBS-GCR-74-23.* **SP305-8.**
- Particle distribution; Phase mapping; Quality control; Scanning Television systems; Variability; Variance (statistics); Aggregates; Anisotropy; Automation; Computers; Mechanical properties; Microscopes; Microstructure; *12935.* **SP305-4.**
- Particle flux; Corpuscular; Ionization; Magnetosphere; *1011.* **SP305-1.**
- Particle generators; Particle size measurements; Particle size measurements by electromobility; Particle standards; Aerosol electrical analyzer; Aerosol generators; Aerosol instrument calibration; Aerosol size measurements; Aerosol spectrometer; Aerosol sprays; *SP412, pp. 149-173.* **SP305-6.**
- Particle imaging; Particle measurements; Particle scattering; Particle size determinations; Particulates; Sprays; Aerosol instrumentation; Aerosol measurements; Aerosol review; Aerosols; Aerosol scattering; Aerosol sizing; Droplet imaging; Droplet sizing; *SP412, pp. 1-12.* **SP305-6.**
- Particle impingement; Particle velocity measurement; Wear testing; Erosive wear; *15778.* **SP305-8.**
- Particle measurements; Particle scattering; Particle size determinations; Particulates; Sprays; Aerosol instrumentation; Aerosol measurements; Aerosol review; Aerosols; Aerosol scattering; Aerosol sizing; Droplet imaging; Droplet sizing; Electrical mobility; *SP412, pp. 1-12.* **SP305-6.**
- Particle scattering; Particle size determinations; Particulates; Sprays; Aerosol instrumentation; Aerosol measurements; Aerosol review; Aerosols; Aerosol scattering; Aerosol sizing; Droplet imaging; Droplet sizing; Electrical mobility; *SP412, pp. 1-12.* **SP305-6.**
- Particle scattering factor; Polydispersity; Chain-end distribution; Excluded volume; Light scattering; *11059.* **SP305-2.**
- Particle scattering factor; Polydispersity; Chain-end distribution; Excluded volume; Light scattering; *11219.* **SP305-2.**
- Particle separation; Polymer separation; Chromatography; Permeation chromatography; *11622.* **SP305-2.**
- Particle size; Electron probe microanalysis; Microanalysis; *9778.* **SP305-1.**
- Particle size; Particulates; Standard reference materials; Particle standards; Particle concentration; Particle counting; *16337.* **SP305-8.**

article size; Plug flow; Slurry flow; Slush; Hydrogen; Cryogenic; Flow restrictions; Friction angle; Gel; Liquid-solid mixtures; *TN377. SP305-1.*

article size; Production; Rate; Cryogenic; Crystallization; Freezing; Growth; Hydrogen; Liquid-solid phase; Melting; Nucleation; *9925. SP305-1.*

article size; Silver-tin alloys; Spherical alloy; Spherical-alloy amalgam; Adaptability; Amalgams; Dental amalgam; Dentistry; Mercury-silver alloys; Packing pressure; *9448. SP305.*

article size; Transport processes; Acetylene-oxygen flame; Benzene flames; Bunsen flames; Carbon formation; Carbon nitride; Concentration profiles; Cyanogen-oxygen flame; Flame front curvature; Hydrocarbon radicals; Hydrogen diffusion; *SP357, pp. 143-150. SP305-4.*

article size determinations; Particulates; Sprays; Aerosol instrumentation; Aerosol measurements; Aerosol review; Aerosols; Aerosol scattering; Aerosol sizing; Droplet imaging; Droplet sizing; Electrical mobility; Impaction; Momentum methods; Particle imaging; *SP412, pp. 1-12. SP305-6.*

article size distribution; Particle size errors; Sampling errors; Trace analysis; Analytical error; Geochemical variance; *SP422, pp. 421-427 (Aug. 1976). SP305-8.*

article size errors; Sampling errors; Trace analysis; Analytical error; Geochemical variance; Particle size distribution; *SP422, pp. 421-427 (Aug. 1976). SP305-8.*

article size measurement; Air elutriation; Air permeability; Andreasen pipette; Calibrated glass beads; Coulter counter; Electroformed sieves; Microscopic size measurement; *11895. SP305-3.*

article size measurements; Aerosol light scattering; Aerosol sizing; Aerosol spectrometer; Cloud droplet measurements; Interferometer; Laser imaging of particles; Laser light scattering by aerosols; *SP412, pp. 57-64. SP305-6.*

article size measurements; Aerosol light scattering; Aerosol sizing; Aerosol spectrometer; Laser light scattering by aerosols; Optical transform; *SP412, pp. 89-96. SP305-6.*

article size measurements; Particle velocity measurements; Aerosol sizing; Aerosol spectrometer; Aerosol sprays; Doppler measurements of particle size; Droplet sizing; Interferometer; Laser light scattering by aerosols; *SP412, pp. 73-80. SP305-6.*

article size measurements; Particle size measurements by electromobility; Particle standards; Aerosol electrical analyzer; Aerosol generators; Aerosol instrument calibration; Aerosol size measurements; Aerosol spectrometer; Aerosol sprays; Nuclei counters; *SP412, pp. 149-173. SP305-6.*

article size measurements; Particulates; Refractive index; Aerosol fibers; Light scattering; *SP412, pp. 13-20. SP305-6.*

article size measurements; Particulates; Refractive index; Smoke detector; Aerosol sizing; Aerosol spectrometer; Chemical characterization of particles; Fire produced particles; Laser light scattering by aerosols; *SP412, pp. 21-32. SP305-6.*

article size measurements; Piezoelectric crystal; Quartz crystal microbalance; Aerosol sizing; Cascade impactor; Particle detection by impaction; *SP412, pp. 137-148. SP305-6.*

article size measurements by electromobility; Particle standards; Aerosol electrical analyzer; Aerosol generators; Aerosol instrument calibration; Aerosol size measurements; Aerosol spectrometer; Aerosol sprays; Nuclei counters; Particle generators; *SP412, pp. 149-173. SP305-6.*

article sizing; Aerosol cloud chamber; Aerosol light scattering; Aerosol size measurements; Aerosol spectrometer; Cloud droplet measurements; Doppler measurements of particle size; Laser heterodyne; Laser scattering by aerosol particles; *SP412, pp. 65-72. SP305-6.*

article sizing; Time resolution; Aerosol; California aerosol monitoring program; Elemental analysis; Ion beam analysis; Monitoring; *SP422, pp. 1119-1136 (Aug. 1976). SP305-8.*

Particle standards; Aerosol electrical analyzer; Aerosol generators; Aerosol instrument calibration; Aerosol size measurements; Aerosol spectrometer; Aerosol sprays; Nuclei counters; Particle generators; Particle size measurements; *SP412, pp. 149-173. SP305-6.*

Particle structure; Relativistic bound states; Relativistic nuclear physics; Composite particles; Interacting quantum fields; Nuclear structure; *Monogr. 147. SP305-7.*

Particle velocities; Vacuum tests; Water jet; Flow rate tests; High speed movies; *SP336, pp. 905-914. SP305-3.*

Particle velocity measurement; Wear; Wear testing; Erosive wear; Particle impingement; *15778. SP305-8.*

Particle velocity measurements; Aerosol sizing; Aerosol spectrometer; Aerosol sprays; Doppler measurements of particle size; Droplet sizing; Interferometer; Laser light scattering by aerosols; Particle size measurements; *SP412, pp. 73-88. SP305-6.*

Particleboard requirements; Particleboard, wood; Wood particleboard; Mat-formed particleboard; *CS236-66. SP305.*

Particleboard, wood; Wood particleboard; Mat-formed particleboard; Particleboard requirements; *CS236-66. SP305.*

Particle-hole calculations; Photon scattering; Photonic nuclear; Sum rules; Nuclear hydrodynamics; *Monogr. 118. SP305-2.*

Particle-hole energy; Quartet structure; Rearrangement; Binding energy; Mass formulae; Nuclei; *12145. SP305-3.*

Particle-hole model; Quasi-bound states; Two-particle two-hole states; Giant resonance; Intermediate structure; Nuclear structure; *15097. SP305-7.*

Particle-hole model; Quasi-elastic model; Radiation tail; Transverse; Electroexcitation; Energy dependent potential; Goldhaber-Teller model; Longitudinal; Matrix elements; Momentum transfer; *12853. SP305-4.*

Particle-hole model; Resonance energy;  $^{14}\text{C}$ ; Analog states; Electron scattering; Inelastic electron scattering; *14729. SP305-7.*

Particle-hole structure; Photoabsorption; Surface vibrations; Collective correlations; Collective intermediate structure; Dipole vibrations; Giant resonance; *10634. SP305-1.*

Particles; Rayleigh scattering; Aerosols; Dusts; Light-scattering; Mie theory; *NBSIR 76-1031. SP305-8.*

Particles; Wear; Bearings; Electron diffraction; Electron microscopy; Gears; Lubrication; *NBSIR 74-474. SP305-6.*

Particle-wall interaction; Solid-vapor; Tube; Two-phase; Boundary layer; Cryogenic; Heat transfer; Hydrogen; Low pressure; Nitrogen; *11505. SP305-2.*

Particle-waves; Phonon; Deformation phenomena; E. R. Fitzgerald; *10450. SP305-1.*

Particulate analysis; Particulate characterization; Sampling methods; X-ray fluorescence; Atmospheric particulates; Direct analysis techniques; Emission spectroscopy; *SP422, pp. 791-803 (Aug. 1976). SP305-8.*

Particulate analysis; Polarography; Spark source mass spectrometry; Spectrophotometry; Trace elements; Water pollution; X-ray fluorescence; Air pollution; Atomic absorption; Electron microprobe; Emission spectroscopy; Environmental analysis; *13783. SP305-5.*

Particulate analysis; Scanning electron microanalysis; X-ray microanalysis; X-ray source size; Backscattered electrons; Electron specimen interaction; Monte Carlo simulation; *15038. SP305-7.*

Particulate analysis; Sulfur dioxide; Air pollution analysis; Carbon monoxide; Fire research; Microchemical analysis; Nitrogen dioxide; Ozone; *TN585. SP305-4.*

Particulate characterization; Sampling methods; X-ray fluorescence; Atmospheric particulates; Direct analysis techniques; Emission spectroscopy; Particulate analysis; *SP422, pp. 791-803 (Aug. 1976). SP305-8.*

Particulate composites; Poisson's ratio; Shear modulus; Young's modulus; Bulk modulus; Composite materials; Elastic con-

- stants; Filled polymers; Mechanical properties; 1624. SP305-8.
- Particulate composites; Poisson's ratio; Young's modulus; Composite materials; Elastic constants; Filled polymers; Mechanical properties; *J. Res. 80A* No. 1, 45-49 (1976). SP305-8.
- Particulate composites; Shear modulus; Theory of elasticity; Bulk modulus; Composite materials; Elastic constants; Filled polymers; Mechanical properties; *J.78A* No. 3, 355-361 (1974). SP305-6.
- Particulate composites; Shear modulus; Theory of elasticity; Composite materials; Elastic constants; Filled polymers; Mechanical properties; *J.79A* No. 2, 419-423 (1975). SP305-7.
- Particulate deposits; Laser; Membrane filters; Microphotometer; 15966. SP305-8.
- Particulate filters; Roll filters; Air conditioning filters; Air filters; 13870. SP305-6.
- Particulate filtration; Sulfate; Sulfur dioxide; Sulfur trioxide; Sulfur trioxide condensation; Automobile exhaust; Catalytic oxidation converter; Dilution tunnel; Isopropanol; SP422, pp. 389-400 (Aug. 1976). SP305-8.
- Particulate mass; Scanning electron microscope; Smoke; Carbon monoxide; Electrostatic precipitation; SP411, pp. 165-177. SP305-6.
- Particulate mass; Scanning electron microscope; Smoke; Carbon monoxide; Electrostatic precipitation; Heat flux; Oxygen depletion; *NBSIR 73-901*. SP305-7.
- Particulate matter; Air pollution; Light scattering; 14039. SP305-6.
- Particulate matter; Air pollution; Light scattering; 15602. SP305-7.
- Particulate matter; Photochemical oxidants; Standards; Sulfur dioxide; Carbon monoxide; Hydrocarbons; Measurement; Nitrogen dioxide; 16121. SP305-8.
- Particulate matter; Reagents; Resin structure; Ultra-pure reagents; Urea; Uric acid; Analytical distillation; Clinical standards; Crystallization; Divinylbenzene; EDTA; Ion exchange resins; Microstandards; *TN459*. SP305-1.
- Particulate matter; Water pollution; Air pollution; Laser; Light scattering; Liquid pollution; 13737. SP305-5.
- Particulate radiation; Re-entry; Space simulation; Thermal radiation; Vacuum; Weightlessness; Ablation; SP336. SP305-3.
- Particulate sample geometry; Trace elements in polyethylene powder; Gamma counting efficiency; Germanium detectors; Instrumental neutron activation analysis; SP422, pp. 1275-1281 (Aug. 1976). SP305-8.
- Particulate sampling; Quartz crystal microbalance; Spacecraft contamination; SP336, pp. 105-111. SP305-3.
- Particulates; Air cleaning; Air pollution; Dust generation; Indoor pollution; 14076. SP305-6.
- Particulates; Photochemical; Photooxidation; Polycyclic; Pyrene; Reaction; 1,1'-bipylene; 1,6- and 1,8-pyrenediones; Aromatic; Hydrocarbons; 9703. SP305-1.
- Particulates; Quantitative analysis; Thin films; X rays; Electron probe microanalysis; Monte Carlo calculations; 16410. SP305-8.
- Particulates; Quartz; Self-generated atmosphere; Calibration filters; Chrysotile; Environmental health; Improved methodologies; 15466. SP305-7.
- Particulates; Raman spectroscopy; Fine particles; Laser Raman; Micro-Raman; Particle analysis; 15362. SP305-7.
- Particulates; Refractive index; Aerosol fibers; Light scattering; Particle size measurements; SP412, pp. 13-20. SP305-6.
- Particulates; Refractive index; Smoke detector; Aerosol sizing; Aerosol spectrometer; Chemical characterization of particles; Fire produced particles; Laser light scattering by aerosols; Particle size measurements; SP412, pp. 21-32. SP305-6.
- Particulates; Sampling; Species; Trace element concentrations; Neutron activation analysis; 15783. SP305-8.
- Particulates; Sprays; Aerosol instrumentation; Aerosol measurements; Aerosol review; Aerosols; Aerosol scattering; Aerosol sizing; Droplet imaging; Droplet sizing; Electrical mobility; Impaction; Momentum methods; Particle imaging; Particle measurements; SP412, pp. 1-12. SP305-6.
- Particulates; Standard reference materials; Sulfur dioxide; Air pollution; Carbon monoxide; Hydrocarbons; Nitrogen oxide; Ozone; *TN711*. SP305-4.
- Particulates; Standard reference materials; Fine particle standards; Particle concentration; Particle counting; Particle size; 16337. SP305-8.
- Parting agents; Poisson's ratio; Release agents; Stress-strain curve; Volume dilation; Composite materials; Coupling agents; Epoxy polymer; 12379. SP305-3.
- Partition function; Phase equilibria; Statistical thermodynamics; Supercritical component; Van der Waals/Percus and Yevic Henry's constants; Liquid mixtures; 11403. SP305-2.
- Partition; Pyridine; Acetone; *D-erythro*-pentulose; *D-thre*-pentulose; Isomerization; 11463. SP305-2.
- Partition; Transversals; Algorithm; Combinatorics; Forest; Matroid; 10917. SP305-2.
- Partition coefficient; Photon counting; Polycyclic aromatic Spectrofluorimetry; Water; Carcinogenic compounds; 1583. SP305-8.
- Partition coefficient; Sea water; Stripping cell; Aromatic hydrocarbons; Gas chromatography; Hydrocarbon analysis; 14955. SP305-7.
- Partition coefficient; Sea water; Solubility; Dimethylmercur; 15944. SP305-8.
- Partition coefficients; Seawater; Aqueous solutions; Benzene solubility; Hydrocarbons; *J.78A* No. 4, 453-460 (1974). SP305-6.
- Partition function; Phase transition; Weiss model; Density states; Ising model; Onsager model; SP323, pp. 381-38. SP305-4.
- Partition function; Phase transition; Polymer crystals; Chain folding; Equilibrium statistical mechanics; 10811. SP305-1.
- Partition function; Phase transition; Polymer; Chain-fold crystal; 14404. SP305-6.
- Partition function; Poincaré series; Dedekind function; Modular form; *J.77B* Nos. 3 and 4, 81-83 (1973). SP305-5.
- Partition function; Random walk; Adsorption; Chain polymer; Lattice model; 12374. SP305-3.
- Partition function; Random walk; Adsorption; Chain polymer; Critical energy; Generating function; Lattice model; *J.70B* 185, 237-247 (1966). SP305-5.
- Partition function; Random walk; Adsorption; Chain polymer; Critical energy; Generating function; Lattice model; 1003. SP305-1.
- Partitioned matrices; Smith normal form; Elementary divisors; Invariant factors; *J.78B* No. 1, 3-6 (1974). SP305-6.
- Partitioned matrix; Diagonalizable matrix; *J.79B* Nos. 1 and 4, 45-48 (1975). SP305-7.
- Partitioned matrix; Rational canonical form; Similarity; Matrix equation; *J.79B* Nos. 3 and 4, 117-125 (1975). SP305-7.
- Partitioned matrix; Smith normal form; Determinantal divisors; Equivalence; Matrix equation; *J. Res. 80B* No. 1, 89-90 (1976). SP305-8.
- Partitioning; Sparse matrix; Tree; Block Gaussian elimination; Graph; Inversion; *J. Res. 80B* No. 2, 245-257 (1976). SP305-8.
- Partitions; Generating functions; Graph of a partition; *J.78A* No. 4, 329-350 (1969). SP305-1.
- Partitions; Ramanujan congruences; Density; 10179. SP305-1.
- Partitions; Recurrence formulas; Congruences; Generating functions; Identities; *J.74B* No. 1, 1-29 (1970). SP305-2.
- Partly associated vapors; Solid-state transformations; Solution calorimetry; Specific heat; Spectral emittance; Transition temperatures; Vapor pressure; Electrical resistivity; Iron; Molybdenum pentafluoride; *NBSIR 73-281*. SP305-6.



ssenger car; Radial; Tires; Tire strength; Winter; Bias ply; Breaking energy; 11833. SP305-3.  
 ssenger car braking systems; Brake fluids; Brake fluid standards; Motor vehicle brake fluid; 12038. SP305-3.  
 ssenger car tires; Radial tires; Speed capability; Tires; Winter tires; Bias ply; Grading; 11494. SP305-2.  
 ssenger car tires; Radial tires; Speed capability; Tires; Winter tires; Bias ply; Grading; 11496. SP305-2.  
 ssenger car tires; Safety; Tires, passenger car; Wear; Construction; Maintenance; C152. SP305-2.  
 ss-fail tests; Quality assurance measurements; X-ray quality control; Diagnostic radiology; SP456, pp. 119-130 (Nov. 1976). SP305-8.  
 ssivation; Electron diffraction; Gamma-Fe<sub>2</sub>O<sub>3</sub>; Iron; 10263. SP305-1.  
 ssivation; Sheet; Sulfuric acid; Titanium; Tubing; Corrosion; NaCl solution; 14516. SP305-6.  
 ssivation; Single crystals; Sulfuric acid; Titanium; Corrosion; 4747. SP305-7.  
 ssivation overcoats; Photomask metrology; Pull test; Resistivity; Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Shear test; Sheet resistors; SP400-19. SP305-  
 ssivation overcoats; Photoresist; Pull test; Resistivity; Scanning acoustic microscope; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Silicon dioxide; SP400-25. SP305-8.  
 ssive; Pitting; Spectroscopy; Ellipsometry; Iron; Kinetics; Optical constants; 16216. SP305-8.  
 ssive; Spinel; Amorphous; Diffraction; Fe-Cr; Lattice parameter; 1 N H<sub>2</sub>SO<sub>4</sub>; Oxide; 13004. SP305-4.  
 ssive and active testing; Platinum inclusion; Surface damage; Thin film coating; HF treatment; Inclusion damage; SP372, pp. 3-10. SP305-4.  
 ssive film; Polarization; Surfaces; Dislocations; Nickel-single crystals; 11758. SP305-2.  
 ssive film; Spectroscopy; Chloride; Ellipsometry; 12462. SP305-4.  
 ssive films; Pitting corrosion; Stainless steel; X-ray analysis; Electron microscopy; Fe-Cr alloys; 16024. SP305-8.  
 ssive films; Spectra; Ellipsometry; Iron; Optical constants; 1373. SP305-2.  
 ssive films; Stainless steel; Corrosion pits; Electron microscopy; Fe-Cr alloys; 13296. SP305-5.  
 ssive potentials; Single crystals; Active potentials; Critical resolved shear stress; Near surface dislocation sources; 1039. SP305-2.  
 ssivity; Chemical breakdown; Chloride ion; Corrosion; Ferrous alloys; Localized corrosion; 16018. SP305-8.  
 ssivity; Electrochemistry; Ellipsometry; Gallium arsenide; 3480. SP305-7.  
 ssivity; Pitting; Breakdown passivity; Chloride; Ellipsometry; Iron; 15081. SP305-7.  
 ssivity; Potentiostat; Anodic oxidation; Ellipsometry; Iron; on oxide films; Kinetics; 9469. SP305.  
 ssivity; Rigid-band model; Saltwater corrosion; Surfaces; Alloy theory; Catalysis; Chemisorption; Cu-Ni alloys; D-and; Electron-configuration; Metallurgy; 13805. SP305-6.  
 ssivity; Ultra-high vacua; Corrosion; Ellipsometry; Field-emission microscopy; Low-energy diffraction; NBS corrosion section; 9890. SP305-1.  
 ssword; Personal identification; Terminals; Verification; ADP security; Computer networks; Controlled accessibility; Encryption; Evaluation criteria; Key; 16013. SP305-8.  
 ssive, water-based, semi-liquid; School paste; PS64-75. SP305-

Pastes; Water cement; Cement pastes; Nitrogen sorption; 9794. SP305-1.  
 Patch fields; Single crystal planes; Work function; Energy distribution; Field emission; 9423. SP305.  
 Patch fields; Tungsten; Work function; 1110 plane; Energy distribution; Field emission; 9424. SP305.  
 Patent; Patent information retrieval; Patent search; Transistor; EDP system; 9644. SP305-1.  
 Patent examination; Patent Office; Patent storage; Production statistics; Administrative operations; Data handling; Data storage and retrieval; Information handling technology; Information processing; Intellectual process; TN834. SP305-6.  
 Patent information retrieval; Patent search; Transistor; EDP system; Patent; 9644. SP305-1.  
 Patent licenses; Patents; Scott proposal; Antitrust; Hart proposal; Inventors; SP388, pp. 93-98. SP305-6.  
 Patent litigation; Patent Office; Patent system reform; Petty patents; Satellite research centers; Advisers to inventors; Deferred examinations; Innovation; Invention; Mechanized searching; SP388, pp. 111-115. SP305-6.  
 Patent Office; Patent storage; Production statistics; Administrative operations; Data handling; Data storage and retrieval; Information handling technology; Information processing; Intellectual process; Patent examination; TN834. SP305-6.  
 Patent Office; Patent system; Technological policy making; Technology; Antitrust doctrine; Employed inventors; Entrepreneurship; Innovation; Invention; Needs of society; New enterprises; SP388. SP305-6.  
 Patent Office; Patent system reform; Petty patents; Satellite research centers; Advisers to inventors; Deferred examinations; Innovation; Invention; Mechanized searching; Patent litigation; SP388, pp. 111-115. SP305-6.  
 Patent reform; Patent system; Economic tradeoffs; Monopolies; New information; SP388, pp. 11-14. SP305-6.  
 Patent rights; Small company R&D; Government contracts; Government laboratories; In-house research; 14610. SP305-6.  
 Patent screening; Technology incentives; ETIP; Government-owned patents; NBS-GCR-ETIP 73-07, Vol. 1. SP305-8.  
 Patent screening; Technology incentives; ETIP; Government-owned patents; NBS-GCR-ETIP 73-07, Vol. 2. SP305-8.  
 Patent search; Transistor; EDP system; Patent; Patent information retrieval; 9644. SP305-1.  
 Patent storage; Production statistics; Administrative operations; Data handling; Data storage and retrieval; Information handling technology; Information processing; Intellectual process; Patent examination; Patent Office; TN834. SP305-6.  
 Patent system; Economic tradeoffs; Monopolies; New information; Patent reform; SP388, pp. 11-14. SP305-6.  
 Patent system; Government help to innovation; Government ownership of patents; Innovation; Inventor; SP388, pp. 139-142. SP305-6.  
 Patent system; Property rights; Validity of patents; Inventor; Monopoly; SP388, pp. 119-126. SP305-6.  
 Patent system; Technological policy making; Technology; Antitrust doctrine; Employed inventors; Entrepreneurship; Innovation; Invention; Needs of society; New enterprises; Patent Office; SP388. SP305-6.  
 Patent system; Useful arts; Adversary proceedings; Antitrust; Deferred examination; Independent Patent Office; Innovation; Inventor; SP388, pp. 103-110. SP305-6.  
 Patent system reform; Petty patents; Satellite research centers; Advisers to inventors; Deferred examinations; Innovation; Invention; Mechanized searching; Patent litigation; Patent Office; SP388, pp. 111-115. SP305-6.  
 Patents; References; Search; Systems; Thinking; Information retrieval; Information storage; Mechanized; Methodology; Optical-coincidence; 10527. SP305-1.  
 Patents; Scott proposal; Antitrust; Hart proposal; Inventors; Patent licenses; SP388, pp. 93-98. SP305-6.

- Patents; Semiconductor amplifiers; Will-to-think; Creative-failure methodology; Invention of transistor; Junction transistor; *SP388*, pp. 47-88. **SP305-6.**
- Patents and the courts; Antitrust; Department of Justice; Human inertia; Innovation; Inventions; *14611*. **SP305-6.**
- Path delay; Phase vs. time;  $\sigma$  vs.  $\tau$ , 19 kHz pilot; Frequency modulation; Modulation index; Multipath; *16492*. **SP305-8.**
- Pathlength; Quartz, cuvette; Radiation pathlength; Cuvette, spectrophotometry; Lightpath; *SP260-32*. **SP305-5.**
- Pathlength; Quartz, cuvette; Radiation pathlength; Cuvette, spectrophotometry; Lightpath; *14432*. **SP305-6.**
- Pathology; Pellicle; Phase-contrast; Transmission; Ultrasound; Velocity; Attenuation; Breast tissue; Broadband; High resolution; Imaging; Large aperture; *SP453*, pp. 121-133 (Oct. 1976). **SP305-8.**
- Paths; Shortest-paths; Trees; Algorithms; Networks; *TN772*. **SP305-5.**
- Path-space measure; Pierre Simon de Laplace; Rejection of observations; Stirling's formula; Stirling's numbers; *Théorie analytique des probabilités*; William Chauvenet; Abraham De Moivre; Avogadro's number; Brownian motion; *11618*. **SP305-2.**
- Patient; Precision; Therapy; TLD; Dosimetry; Ion chamber; *SP456*, pp. 343-350 (Nov. 1976). **SP305-8.**
- Patrol car definitions; Patrol car functions; Patrol car systems; Patrol car terms; *14761*. **SP305-7.**
- Patrol car functions; Patrol car systems; Patrol car terms; Patrol car definitions; *14761*. **SP305-7.**
- Patrol car systems; Patrol car terms; Patrol car definitions; Patrol car functions; *14761*. **SP305-7.**
- Patrol cars; Performance of patrol cars; Police patrol cars; Problems with patrol cars; State of the art survey; Functional requirements; *15826*. **SP305-8.**
- Patrol cars; Performance of patrol cars; Police patrol cars; Problems with patrol cars; State of the art survey; Functional requirements; *NBSIR 75-960*. **SP305-8.**
- Patrol cars; Police fleets; Vehicle leasing; Vehicle management; Fleet management; Life cycle costing; *NBSIR 74-471*. **SP305-6.**
- Patrol cars; Police fleets; Vehicle leasing; Vehicle management; Fleet management; Life cycle costing; *NBSIR 75-961*. **SP305-8.**
- Patrolcar; Police; Police vehicles; Standards; *NBSIR 73-216*. **SP305-6.**
- Patrolcar brakes; Patrolcar survey; Police brake requirements; FMVSS 105a; LAPD brake tests; NBS survey; *16148*. **SP305-8.**
- Patrolcar survey; Police brake requirements; FMVSS 105a; LAPD brake tests; NBS survey; Patrolcar brakes; *16148*. **SP305-8.**
- Pattern recognition; Biological images; Image processing; Morphology; *12284*. **SP305-3.**
- Pattern recognition; Biological structure; Biomedical instrumentation; Computer; Image processing; Microscope; Microspectrophotometry; *11834*. **SP305-3.**
- Pattern recognition; Biomedical; Image processing; *14629*. **SP305-6.**
- Pattern recognition; Computerized fingerprint identification; Fingerprint; *TN878*. **SP305-7.**
- Pattern recognition; Computerized-fingerprint-identification; Fingerprint; *TN538*. **SP305-2.**
- Pattern recognition; Computerized-footprint-identification; Footprint; *TN712*. **SP305-4.**
- Pattern recognition; Computers; Digital logic; Image processing; Microscope; Microspectrophotometry; *11990*. **SP305-3.**
- Pattern recognition; Programming languages; Speech and speaker recognition; Artificial intelligence; Automatic abstracting; Automatic indexing; Computational linguistics; Computer centers; Documentation; Information storage; Selection and retrieval; *TN462*. **SP305-1.**
- Pattern recognition; Reading machines; Character recognition; Context research; Data bases; Optical character recognition; *NBSIR 75-746*. **SP305-7.**
- Pattern recognition; Recognition; Research; Speaker identification; Speech recognition; Standardized fonts; U.S.S.R.; Western Europe; Optical character; *11142*. **SP305-2.**
- Pattern recognition; Reconstruction; Scattering; Tissue characterization; Tissue parameters, tissue signature; Tumor; Ultrasonic spectroscopy; Ultrasound; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; Medical diagnosis; Microscopy; *SP453*. **SP305-8.**
- Pattern recognition; Scanner; Classification; Computer; Fingerprint; Identification; *16030*. **SP305-8.**
- Pattern recognition; Signal processing; Spectral resolution; Statistics; Analytical chemistry; Curve fitting; Data reduction; Feature selection; Multivariate analysis; Optimization techniques; *15964*. **SP305-8.**
- Pattern recognition; Speech spectrogram; Ultrasound; Analog-digital converter; A-scan; Digitization; *SP453*, pp. 51-59 (Oct. 1976). **SP305-8.**
- Pattern recognition; Syntax; Biological images; Cell analysis; Image display; *9898*. **SP305-1.**
- Pattern recognition; Trace elements; Air particulates; Blood; Chemistry; Computer graphics; Geochemistry; Medicine; *SP422*, pp. 151-162 (Aug. 1976). **SP305-8.**
- Pattern recognition; Twinning; Computer calculations; Crystal structure; Epitaxy; Lattice misfit; *TN893*. **SP305-8.**
- Pattern size, women's; Size designations, women's; Span charts; women's sizing; Apparel, women's; Body measurements; women's; Classifications, women's size; Grading charts; women's size; *PS42-70*. **SP305-3.**
- Pattern sizes, boys'; Size designations, boys'; Span charts, boys'; sizing; Apparel, boys'; Body measurements, boys'; *PS36-70*. **SP305-3.**
- Patternness; Scanning microscopes; Television microscope; Analysis of microstructures; Automatic image analysis; Gestalt of a material; Microarchitecture; *12664*. **SP305-4.**
- Patternness; Scanning microscopes; Television microscope; Analysis of microstructures; Automatic image analysis; Gestalt of a material; Microarchitecture; *12702*. **SP305-4.**
- Pattern-recognition; Classification; Computer; Descriptor; Fingerprint; Identification; *TN443*. **SP305-1.**
- Pattern-recognition; Computerized-fingerprint-identification; Fingerprint; *TN730*. **SP305-4.**
- Pattern-recognition; Computerized-fingerprint-identification; Fingerprints; *TN466*. **SP305-1.**
- Pattern-recognition; Computerized-fingerprint identification; Fingerprints; *TN481*. **SP305-1.**
- Patterns; Gains; Microwave antennas; Near-field measurements; *11855*. **SP305-3.**
- Patterns; Planar; Proximity; Rhombic; Spacing; Antenna; Comparison; Co-planar; Gain; Interactions; Mutuals; Nesting; *11467*. **SP305-2.**
- Patterns; Powder diffraction; Ambiguities; Geometrical; Indexing; *15572*. **SP305-7.**
- Patterns; Scanning; Spherical; Symmetry; Antennas; Array; Coordinate transformations; Data processing; Gratings; representations; Measurements; Near field; Non-planar; *NBSIR 75-809*. **SP305-7.**
- Patterns; Strings; Vocabulary; Atom symbols; Bond symbols; Chemical diagrams; Formal grammar; Language; Linguistic analysis; Natural groups; Numerical subscripts; *12671*. **SP305-4.**
- Patterson; Vector; Symmetry; Consistency; Frequency; Superposition; Crystal; Structure; *J.70A4-407*, 319-321 (1968). **SP305.**

4. Paramagnetism; Semiconductor; Strontium titanate; Band structure; Insulator; Magnetic susceptibility; 9453. SP305.  
 5. Lasing radii; Transition metals; Rare earth intermetallic compounds; Aromatic compounds; Chemical bond; Electronic density of states; Fermi surface; SP323, pp. 385-405. SP305-4.  
 6. Pavement; Rating; Test method; Tread wear; Automobile tires; Environment, grading; 12874. SP305-4.  
 7. Pavement macrotexture; Profile tracer; Tires; Noise; NBS-GCR-75-35. SP305-8.  
 8. Pavement, skid resistance; Pavement wetting system, tire-pavement interface forces; Wet pavement; Accident reduction, skidding; Correlation, skid resistance; Highway safety; NBSIR 75-972. SP305-8.  
 9. Pavement, skid resistance; Pavement wetting system; Tire-pavement interface forces; Wet pavement; Accident reduction, skidding; Correlation, skid resistance; Highway safety; Measurement, skid resistance; NBSIR 76-1133. SP305-8.  
 10. Pavement, skid resistance; Skid accident reduction; Tire-pavement interface forces; Calibration procedures; Force plate; NBSIR 75-738. SP305-7.  
 11. Pavement wetting system; Tire-pavement interface forces; Wet pavement; Accident reduction, skidding; Correlation, skid resistance; Highway safety; Measurement, skid resistance; Pavement, skid resistance; NBSIR 76-1133. SP305-8.  
 12. Pavement wetting system, tire-pavement interface forces; Wet pavement; Accident reduction, skidding; Correlation, skid resistance; Highway safety; Pavement, skid resistance; NBSIR 75-972. SP305-8.  
 13. Polybutene; Polyvinyl chloride; PVC; Residual stress; Thermoplastic piping; ABS; Coefficient of expansion; CPVC; Glass transition temperature; Hardness; NBSIR 74-629. SP305-7.  
 14. Scattering; Small angles; U; Fast neutrons; SP425, pp. 948-949. SP305-7.  
 15. PB designs; Statistics; Tables of PBIB designs; Analysis of PBIB designs; Experiment designs; Finite fields; Finite geometries; Finite projective planes; Incidence matrices; Incomplete block designs, partially balanced; Mathematics; AMS53. SP305-5.  
 16. Chemiluminescence; Electronic states; Gas kinetics; Laser enhanced reactions; O<sub>2</sub>; J. Res. 80A No. 2, 167-171 (1976). SP305-8.  
 17. Thermophysical measurements; Chemiluminescent; Diatomic molecules; Dissociation energies; High temperature; NBSIR 75-751. SP305-8.  
 18. Ultraviolet photoemission; Copper; Copper nickel alloys; Density of states; GaAs; Ge; Nondirect transitions; Optical density of states; SP323, pp. 139-157. SP305-4.  
 19. Ultraviolet photoemission; Copper; Copper nickel alloys; Density of states; GaAs; Ge; Nondirect transitions; Optical density of states; J.74A No. 3, 397-415 (1970). SP305-2.  
 20. Micropulsations; Plasma; Polarization; Propagation; Alfvén; Dispersion; Hydromagnetic; Magnetosphere; Multicomponent; TN342. SP305.  
 21. PCl<sub>3</sub>; Sp<sup>2</sup> hybrids; Trigonal bipyramid; E.p.r.; Free radicals; Low-energy irradiation; Low temperature; PCl<sub>3</sub>; 10572. SP305-1.  
 22. PCl<sub>3</sub>; PCl<sub>4</sub>; Sp<sup>2</sup> hybrids; Trigonal bipyramid; E.p.r.; Free radicals; Low-energy irradiation; Low temperature; 10572. SP305-1.  
 23. Sp<sup>2</sup> hybrids; Trigonal bipyramid; E.p.r.; Free radicals; Low-energy irradiation; Low temperature; PCl<sub>3</sub>; PCl<sub>4</sub>; 10572. SP305-1.  
 24. Alloys; Cu; Hyperfine fields; Magnetism; Mn; Mössbauer effect; Ni; Sb; 15016. SP305-7.  
 25. PH; PH<sup>+</sup>; PH concept; Standards for acidity; Acidity scales; Deuterium oxide; Nonaqueous media; 10506. SP305-

PD; Phosphate; Standards for pD; Acidity; Carbonate; Citrate; Deuterium ion; Deuterium oxide; Glass electrode; Heavy water; 11079. SP305-2.  
 Pd; Sb; Alloys; Hyperfine field; Mn; Mössbauer effect; 13326. SP305-5.  
 PD measurement; Acidity; Deuterium electrode; Deuterium oxide; Glass electrode; Heavy water; 10476. SP305-1.  
 PD measurements; PH measurements; Medium effects; Solvent effects; Acidity; Analysis; Conductance measurements; Electrochemical analysis; Electrochemistry of solutions; Ionic activity; Ion-selective electrodes; TN453. SP305-1.  
 PD measurements; PH measurements; Medium effects; Solvent effects; Standard reference materials; Acidity; Analysis; Conductivity; Electrochemical analysis; Electrochemistry of solutions; Ionic activity; Ion-selective electrodes; TN503. SP305-1.  
 PD scale; Acetic acid; Acidity in deuterium oxide; Deuterium oxide; Dissociation constant; Heavy water; 9170. SP305.  
 Peak height; Reproducibility; Sensitivity loss; Supralinearity; Dosimetry; Fading; Furnace annealing; Glow curve; Maximum heating temperature; 15193. SP305-7.  
 Peak intensities; Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Monogr. 25, Section 10. SP305-4.  
 Peak intensities; Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Monogr. 25, Section 9. SP305-3.  
 Peak intensities; Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Monogr. 25, Section 7. SP305-1.  
 Peak intensities; Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Monogr. 25, Section 8. SP305-2.  
 Peak intensities; Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Monogr. 25, Section 12. SP305-7.  
 Peak intensities; Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Monogr. 25, Section 13. SP305-8.  
 Peak intensities, powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Monogr. 25, Section 11. SP305-6.  
 Peak intensity; Physical constants; Spectral line profiles; Statistical error analysis; X-ray line shapes; X-ray spectra; X-ray wavelength criteria; 12295. SP305-3.  
 Peak power; Repetitively pulsed lasers; Average power; Energy per pulse; Laser; TN398. SP305-3.  
 Peak pulse power; Pulse modulation; RF power; Measurement; 9792. SP305-1.  
 Peak pulse power measurement; Sampling power measurement; Solid state switch; 12295. SP305-3.  
 Peak reading voltmeter; Space charge; Electric field measurement; Electro-optic Kerr effect; High voltage measurement; Impulse measurement; Kerr constant; Liquid insulants; Nitrobenzene; NBSIR 73-403. SP305-6.  
 Peak values; Power spectra; Turbulence; Wind profiles; Atmospheric boundary layer; Gust factors; BSS30, pp. 27-41. SP305-3.  
 Peak voltage; Pulse; Sampling; Slideback; Standard; Oscilloscope; 9972. SP305-1.  
 Pearson equation; Pit depth; Recorder; Stern-Geary equation; Synthetic sea water; Weight loss; Bridge circuit; Change of pH; Instantaneous corrosion rates; 11658. SP305-2.  
 Pedal effort; Women, strength of; Automotive braking systems; Brakes; Brake pedal forces; Federal Motor Vehicle Safety Standards; TN557. SP305-2.  
 Pediatric surgery; Pyrogens; Sweating; Temperature, central body; Thermocouple disconnect; Thermoelectric ther-

- mometry; Thermometer; Vasodilation; Warm sensitive neurons; Anesthesiology; Brain temperature; Carotid artery; Clinical medicine; *13631. SP305-5.*
- Pedology; Soil; Thermal neutron constants; Calibration; Neutron moisture gauge; *SP425*, pp. 516-519. **SP305-7.**
- Peek-a-Boo; Aspect systems; Index organization; Information retrieval systems; Inverted index organization; Inverted systems; *10712. SP305-1.*
- Peer review; Regulatory activities; Sensitivity analysis; Blood banks; Blood utilization statistics; Cost benefit analysis; Donor profiles; *TN777. SP305-5.*
- Peierls barriers; Pt-Cu; Silver; tellurium ( $Ag_2Te$ ); Ti-Al; TiCo; TiFe; TiNi;  $Ti_2Te$ ; Binary alloys;  $Bi_2Te_3$ ; CdSb; Copper-gold (Cu-Au);  $Cu_3Au$ ; CuPt; *SP323*, pp. 483-492. **SP305-4.**
- Peierl's energy; Screw dislocation; Computer simulation; Green's tensors; Interatomic potential; Lattice studies; *SP317*, pp. 291-298. **SP305-3.**
- Peierls stress; Alloy softening; Elastic; Electronic; Fe-N alloys; Fe-Ni alloys; Flow stress; Lower yield stress; Mobile dislocation density; *11574. SP305-2.*
- Peierl's stress; Internal friction; Kink motion; *SP317*, pp. 447-458. **SP305-3.**
- Peierls stress; Zero point motion; Anharmonicity; Dislocations in lattices; *SP317*, pp. 253-272. **SP305-3.**
- Peierls transition; Tetrathiofulvalinium-tetracyanoquinodimethan (TTF-TCHNQ); Charge transfer salts; Electronic energy band structure; Electron-phonon coupling; One dimension; *14359. SP305-6.*
- Peierls-Nabarro model; Dislocation stacking faults; *SP317*, pp. 1157-1161. **SP305-3.**
- Peirce; Philosophy; Pragmatism; Research priorities; Weights and measures; Benefit-cost; History; *10203. SP305-1.*
- Pellat dynamometer; Proton precession frequency; Absolute ampere determination; Calculable inductor; Current balance; National electrical units; Nonmagnetic facility; *9325. SP305.*
- Pellet variability; Standard reference material; Fractionation; Linear polyethylene; Molecular weight; Molecular weight distribution; National Bureau of Standards; *J.76A No. 2, 137-138 (1972). SP305-4.*
- Pelletizing; Precision; Relative sensitivity; Sample homogeneity; Solids; Statistics; Background; Electrical detection; Electrical discharge; Ion probe; Ion sensitive plates; Mass spectrometry; *10814. SP305-1.*
- Pellicle; Phase-contrast; Transmission; Ultrasound; Velocity; Attenuation; Breast tissue; Broadband; High resolution; Imaging; Large aperture; Pathology; *SP453*, pp. 121-133 (Oct. 1976). **SP305-8.**
- Pellin-Broca prism; Spectroscope; *13584. SP305-5.*
- Pencil beam; Therapeutic beam; Dose profiles; Electron dosimetry; *SP456*, pp. 313-326 (Nov. 1976). **SP305-8.**
- Pendant pentafluorophenyl ring; Polyperfluorophenylene ethers; Polyperfluorophenylenes; Sulfides; Vinyl ethers; Fluorinated styrenes; Fluoroaryl polymers; Para and meta linked polymers; *9999. SP305-1.*
- Penetration; Retention system strength; Riot; Visual clearance; Helmets; Impact attenuation; *16265. SP305-8.*
- Penetration; Retention system strength; Visual clearance; Crash; Helmet; Impact attenuation; *16287. SP305-8.*
- Penetration; Thick target bremsstrahlung; Transport theory; Aluminum transmission; Bremsstrahlung; Electrons; Monte Carlo; *11570. SP305-2.*
- Penetration; Transport theory; Two-layer slabs; Dose transmission; Gamma-rays; Invariant imbedding; *10787. SP305-1.*
- Penetration depth; Semiconducting systems;  $SrTiO_3$ ; Superconducting; Transition temperature;  $(Ba_{1-x}Sr_x)TiO_3$ ;  $(Ca_{1-x}Sr_x)TiO_3$ ; Critical fields; Magnetic moment; *10817. SP305-1.*
- Penetration tests; Power lawn mowers; Safety standard; Thrown objects tests; Dispersion tests; Lawn mowers; *NBSIR 76-1022. SP305-8.*
- Penetration through ceiling; Smoke movement; Smoke simulation; Sulfur hexa-fluoride ( $SF_6$ ); Veterans Administration Hospital; Experiments; Full-scale; Gas tracer; Interstitial space; *NBSIR 75-903. SP305-7.*
- Penny crack; Contact fracture; Degradation; Hertzian cracks; Indentation fracture; Median vents; *NBSIR 75-730. SP305-7.*
- Penny crack; Contact fracture; Degradation; Hertzian cracks; Indentation fracture; Median vents; *15822. SP305-8.*
- Pentadiene; Polymerized; Pressure; 3,5,6-trichloro-octafluorohexanoic; Dechlorination; Gamma ray initiation; *9706. SP305-1.*
- Pentafluorodisilane; Physical properties; Pyrolysis; Silicon difluoride; Base catalyzed decomposition; Fluorodisilane; *16014. SP305-8.*
- Pentafluorohalobenzenes; Direct replacement; High temperature; Mechanisms; Nonionic or ionic coreactants; Nuclear fluorine; *J.70A6-420, 473-480 (1966). SP305.*
- Pentafluorostyrene; Polymerization; Pressure radiation; Reactivity ratios; Tetrafluoroethylene; Copolymerization; *15281. SP305-7.*
- Pentane; Ultrasonics; Bulk modulus; Compressibility; Density; Dilatometric measurements; High pressure; Liquids; 2-methylbutane; *J.78A No. 5, 617-622 (1974). SP305-6.*
- Pentanone; Photolysis; Primary processes; Radiolysis; Ion molecule reactions; Ion pair yields; *10049. SP305-1.*
- Pentaprism; Reflection; Refraction; Standard deviation; Uncertainty; Autocollimator; Calibration; Constant deviation prism; Geometrical model; Optical square; *NBSIR 76-993. SP305-8.*
- People; Response; Sirens; Standards; Action; Communication; Conspiracy; Controlled environment; Effectiveness; Flashlights; Guidelines; Information; Laboratory testing; *13516. SP305-5.*
- People costs; Single glass; Building economics; Capital costs; Human comfort; Human performance; Insulated glass; Operating costs; *SP361, Vol. 1, pp. 149-159. SP305-4.*
- People in buildings; Energy conservation; Human factors; *BSS88. SP305-8.*
- Peptides; Proline; Ring conformation; Substituent effects; Amides; Carbon-13 magnetic resonance; Chemical shifts; Cis and trans isomers; *16235. SP305-8.*
- Perbromates; Perchlorates; Periodates; Thermal decomposition; Thermodynamic functions; Bromates; Bromites; Chlorate; Chlorites; Critically evaluated data; Iodates; Iodites; *J. Phys. Chem. Ref. Data 3, No. 2, 481-526 (1974). SP305-6.*
- Percent modulation; Amplitude modulation; Instrument landing system; Modulation measurements; Modulation meter; *16516. SP305-8.*
- Perception; Protonopia; Tritanopia; Vision; Chromaticity; Color; *J.74A No. 1, 23-30 (1970). SP305-2.*
- Perception; Risk-benefit analysis; Standards; Acceptance; risk; Consumer product safety; *14664. SP305-6.*
- Perception; Stair safety research; Architectural psychology; Architectural research; Building research; Building safety; *NBSIR 76-1046. SP305-8.*
- Perception; Vision; Achromatic; Appearance; Brightness; Chromatic adaptation; Chromaticity; Color; Least squares; Luminance; Model; Neutral; *11813. SP305-3.*
- Perception of color; Photometry; Physiological optics; Psychophysics; Scaling of color; Color; Gloss; Light; *933. SP305.*
- Perception of speech; Sound reproduction; Speech communication; Speech intelligibility; Telephony; Measures of speech quality; *10524. SP305-1.*
- Perceptron; Adaptive control; Cerebellum model; Control theory; Manipulator control; *15428. SP305-7.*
- Perceptual processes; Psychological deterrence; Security systems; Sensory processes; Threat analysis; Behavioral impact; Cognitive processes; Nuclear weapon theft; *NBSIR 76-1007. SP305-8.*



receptual/motor; Psychomotor; Safety; Glare; Lighting; *NBS-GCR-75-45. SP305-8.*

erchlorates; Periodates; Thermal decomposition; Thermodynamic functions; Bromates; Bromites; Chlorates; Chlorites; Critically evaluated data; Iodates; Iodites; Perbromates; *J. Phys. Chem. Ref. Data* 3, No. 2, 481-526 (1974). **SP305-6.**

erchlorates; Phase transformations; Phosphates; Sulfates; Thermodynamic data; X-ray diffraction data; Chromates; Crystal structure; Crystal structure transformations; *NSRDS-NBS56. SP305-7.*

erchlorates; Thermal motion; Torsional oscillation; Constrained refinement; Hindered rotation; Hydrogen bonds; Hydroxylammonium; Neutron diffraction; *14853. SP305-7.*

erchloric acid; Solvent extraction; Group VIII; HDEHP; Hydrochloric acid; IB and IIB elements; Nitric acid; *11705. SP305-2.*

erchloric acid; Solvent extraction; Group IIIB-VIIB elements; HDEHP; Hydrochloric acid; Lanthanides; Nitric acid; *11425. SP305-2.*

erchloryl fluoride; Quadrupole coupling constant structure; Dipole moment; Microwave; *9204. SP305.*

ecus-Yevick equation; Configuration entropy; Correlation function; Entropy; Hard sphere; Liquid state; Neon; *12370. SP305-3.*

ecus-Yevick equation; Phase transitions; Potentials of average force; Critical phenomena; Entropy-energy-volume; Fluctuations; Fundamental maximum principle; Generalized Ornstein-Zernike equation; Molecular distribution functions; *0966. SP305-2.*

ecus-Yevick equation; Radial distribution function; Simple liquids; Superposition approximation; Three body correlation function; X-ray diffraction; Neutron diffraction; *12016. SP305-3.*

fect crystal; Scattering amplitude; Theory; X-ray diffraction; Absorption; Distortion; Lattice sum; Line broadening; *10573. SP305-1.*

fect lattice; Thermal conductivity; Thermal diffusivity; Thermo-elastic coupling; Continuum theory of diffusion; Density; Kinetic temperature; Molecular dynamics; Numerical error; *6281. SP305-8.*

fect sphere; Silicon; Spherical interferometer; Spherical volume; Volume standard; Density standard; Hydrostatic weighing; *J.78A No. 1, 13-40 (1974). SP305-6.*

fection; Purity; Space manufacturing; Space processing; Ferro-g; Materials processing; *NBSIR 73-402. SP305-6.*

fluoroalkanes; Perfluoroalkanes; Electron affinity; Fluorocarbons; Orbital; *13582. SP305-5.*

fluoro- $\alpha$ -olefins; Fluorine-containing polymers; Fluorine-containing styrene; Glass temperature; High pressure; Perfluoro- $\alpha$ , $\omega$ -dienes; *11532. SP305-2.*

fluoro- $\alpha$ , $\omega$ -dienes; Perfluoro- $\alpha$ -olefins; Fluorine-containing polymers; Fluorine-containing styrene; Glass temperature; High pressure; *11532. SP305-2.*

fluorocycloalkanes; Electron affinity; Fluorocarbons; Orbital; Perfluoroalkanes; *13582. SP305-5.*

fluoroheptane; Correlation function; Critical opalescence; Critical phenomena; Isooctane; Low angle x-ray scattering; *0461. SP305-1.*

luoro-p-quinonemethide; Polymerization; Poly-p-oxyperfluorobenzylene; Pyrolysis; 2,3,5,6-tetrafluoro-4-fluoromethylphenol; 1-*t*-butoxy-2,3,5,6-tetrafluoro-4-fluoromethylbenzene; *J.71A1-434, 33-41 (1967). SP305.*

luorostyrene; Phenyl ethers; Polymerizations; Fluorine-containing monomers; Fluorodienes; Fluoroolefins; Fluoro monomers; Fluoropropylenes; Fluorovinyl; Free radical; amma rays; High pressures; Ionic catalysts; Monomers; *0118. SP305-1.*

luorostyrene; Polymerization; Polyperfluorostyrene; High pressure; *13061. SP305-5.*

Perfluorostyrene; Shaft position encoder; Staple detector; Superconducting; Synthesis, chemical; Titration; Wind vane; Work positioner; Conductometry; Decoding matrix; Fluoroolefins; Integrator; Magnetic sensing probe; Magnetic tape; Microbridge; *TN744. SP305-4.*

Perforated tape code for information interchange; Federal Information Processing Standard; *FIPS PUB 2. SP305-1.*

Performance; Analytical; Computer systems modeling; End users; *SP406, pp. 123-126. SP305-7.*

Performance; Building procurement; Building systems; Hospital planning; Office building; *SP361, Vol. 1, pp. 73-82. SP305-4.*

Performance; Capacity; Computer; Evaluation; Measurement; *TN851. SP305-6.*

Performance; Communications; Computer; Evaluation; Measurement; Network; *15693. SP305-7.*

Performance; Computer; Consumer; Contract; Evaluation; Network; *15642. SP305-7.*

Performance; Performance concept; Performance-judgement approach; Proposed international generic building classifications; Proposed international subsystem classification models; Systems approach; User needs; Buildings; Design process; *SP361, Vol. 1, pp. 201-206. SP305-4.*

Performance; Performance concept; Quality description; System approach; Building; Design process; ER-system; *SP361, Vol. 1, pp. 191-200. SP305-4.*

Performance; Performance criteria; Department of Housing and Urban Development; Housing; Industrialized housing; Innovative housing; National Academies of Sciences and Engineering; National Bureau of Standards; *SP361, Vol. 1, pp. 255-260. SP305-4.*

Performance; Performance requirements; Building elements; Building materials; Evaluation; *SP361, Vol. 1, pp. 519-529. SP305-4.*

Performance; Performance specifications; Environmental characteristics; *SP361, Vol. 1, pp. 171-180. SP305-4.*

Performance; Performance terminology; Predictability; Requirements; Variables; Workload; Computer system; Factors; Measurement; Parameters; *SP406, pp. 53-60. SP305-7.*

Performance; Personnel dosimetry; Phosphate glass; Photographic film; Radioactive sources; Thermal neutrons; X rays; Calibration; Data processing; Evaluation; Gamma rays; Intercomparison; *10920. SP305-2.*

Performance; Petri Nets; Probability; Evaluation; Graphs; Measurement; Networks; *SP406, pp. 127-130. SP305-7.*

Performance; Planning; Present value analysis; Analysis; Construction; Cost; Design; Economics; Flexibility; Law enforcement facilities; *14961. SP305-7.*

Performance; Planning; Programming; Architecture; Building systems; Construction management; Design; Hospital design; Medical facilities; *BSS54, pp. 49-62. SP305-6.*

Performance; Portland cement; Structural performance; Aggregates; Cement; Concrete; Concrete quality; Materials; *SP361, Vol. 1, pp. 719-724. SP305-4.*

Performance; Power; Work; Computer efficiency; Evaluation; Measurement; *SP406, pp. 131-134. SP305-7.*

Performance; Pressure; Survey; Transducer; Calibration; Compatibility; Cryogenic; Liquid oxygen; Measurement; Oxygen; *15155. SP305-7.*

Performance; Pressure; Telemetering; Test method; Transducer; Calibration; Dynamic calibration; Electro-mechanical; *10666. SP305-1.*

Performance; Pressure; Test methods; Transducer calibration; Evaluation; Measurement; *11042. SP305-2.*

Performance; Price; User; Value; Building; Competitive market; Construction; Cost; Evaluation; Materials; *SP361, Vol. 1, pp. 141-148. SP305-4.*

Performance; Prime; Program; Test; Assessment; Complex; Composite; Computer; Criteria; Evaluation; Gaussian primes; Indexing; Measurement; *TN572. SP305-3.*

- Performance; Processing; Technical strategy; Design; Development; Fabrication; Life cycle costing; Materials policy; Non-destructive evaluation; *15873. SP305-8.*
- Performance; Procurement; Specifications; Standards; Tests; User needs; Carpets; Floor coverings; Government; *TN822. SP305-6.*
- Performance; Properties; Deleading methods; Lead paint poisoning; *13391. SP305-5.*
- Performance; Properties; Scratch resistance; Smoke generation; Toxic combustion products; Toxicity; Washability; Water vapor permeance; Abrasion; Adhesion; Colorfastness; Covering; Material; Flash point; Flame spread; Impact resistance; *TN808. SP305-5.*
- Performance; Queues; Analytical models; Evaluation; Measurement; Networks; *SP406, pp. 119-121. SP305-7.*
- Performance; Radiation therapy; Service; Dosimetry; Electrons; Impact; Improvement; *SP456, pp. 365-370 (Nov. 1976). SP305-8.*
- Performance; Radiative cooling; Roofing; Solar heating; Surface temperature; Built-up roofing; Insulation; *NBSIR 76-987. SP305-8.*
- Performance; Real world; Rehabilitation; Synthesis; System; User needs; User values; Analysis; Cost; Evaluation financing; Housing; Improvements; Individual; Inspection; Minority groups; *SP361, Vol. 1, pp. 345-356. SP305-4.*
- Performance; Relative humidity; Thermal environment; Thermal neutrality; Air motion; Air temperature; Comfort; Mean radiant temperature; *SP361, Vol. 1, pp. 31-42. SP305-4.*
- Performance; Relevance; Testing of information systems; Effectiveness; Evaluation; *TN297. SP305.*
- Performance; Research; Residential structures; Safety; Structural masonry; Brickwork; Experimental; Lateral loading; *SP361, Vol. 1, pp. 567-576. SP305-4.*
- Performance; Resin binders; Adhesion; Composites; Dimensional stability test; Fillers; *SP361, Vol. 1, pp. 741-750. SP305-4.*
- Performance; Restraints; Automobiles; Dummies; Dynamic; Impact; *11945. SP305-3.*
- Performance; Roof behavior; Roofing; Bituminous; Cost; Durability; *SP361, Vol. 1, pp. 777-787. SP305-4.*
- Performance; Service; Utility; Computer; Evaluation; Measurement; *15093. SP305-7.*
- Performance; Software monitors; Throughput; Computer; Evaluation; Hardware monitors; Measurement; *SP406, pp. 99-102. SP305-7.*
- Performance; Standards; Testing; Validation; Algorithms; Mathematical functions; *14061. SP305-6.*
- Performance; Systems approach; User requirements; Value system; Building design; Design process; Evaluation; *SP361, Vol. 1, pp. 237-248. SP305-4.*
- Performance; Test method; Dynamic calibration and telemetering; Electro-mechanical; Pressure; Transducer; Calibration; *TN411. SP305.*
- Performance; Tests; Agreement; Building components; Durability; Materials; *SP361, Vol. 1, pp. 165-170. SP305-4.*
- Performance; Usability; Communications networks; Computer networks; Cost; Interactive service; Measurement; Measures; *TN908. SP305-8.*
- Performance; User needs; Value system; Cost; Design; Industrialization; *SP361, Vol. 1, pp. 131-139. SP305-4.*
- Performance; Veterans' Administration; Architecture; Building systems; Design; Hospital design; Medical facilities; Modular design; *BSS54, pp. 31-44. SP305-6.*
- Performance; 9800 RPS; 200 Watts (30 °K); Design; Expansion turbine; Gas bearings; Helium refrigeration; *9151. SP305.*
- Performance analysis; Performance evaluation; Stages of building; Application of performance concept; Building levels; External factors; Internal factors; *SP361, Vol. 1, pp. 219-226. SP305-4.*
- Performance analysis; Properties of floors; Classification of floors; Evaluation of floors; External factors; Flooring; Floors; *SP361, Vol. 1, pp. 613-623. SP305-4.*
- Performance analysis; Reinforced concrete; Reinforcement; Concrete; Corrosion; Durability; Material properties; Morphological research; *SP361, Vol. 1, pp. 725-732. SP305-4.*
- Performance, apparel; Properties, apparel; Testing textile; Wash-and-wear; Apparel; Care instructions; Labeling, apparel; *11492. SP305-2.*
- Performance, apparel materials; Properties, apparel; Quality control, apparel industry; Test methods, textile; Testing programs, apparel industry; Textile testing, apparel material; Apparel industry; Equipment, textile testing; Industry, apparel; *12435. SP305-4.*
- Performance approach; Performance criteria; Performance methodology; Regulatory system; Agreement system; Building code of New York State; Building codes; Human requirements; National Conference of States; *14513. SP305-6.*
- Performance approach; Performance-based plumbing standards; Performance statement; Plumbing performance criteria; Plumbing performance evaluation; Plumbing performance Acceptance protocol; *16654. SP305-8.*
- Performance approach; Semantics; Systems approach; Building industry; Building production process; Building systems; Innovation; *SP361, Vol. 1, pp. 207-212. SP305-4.*
- Performance assessment; Performance concept; Performance products; Performance testing; User need BREAKTHROUGH; Building performance; Construction Contracting; *14661. SP305-6.*
- Performance at part load; Seasonal efficiency; Boilers; Computer simulation; DEPAB (Design and Performance Analysis of Boilers); Energy saving measures; *16347. SP305-8.*
- Performance attributes; Building material; Housing; Lead paint; Lead hazard elimination methods; Lead paint poisoning; *TN770. SP305-5.*
- Performance attributes; Performance criteria; Physical and engineering properties; Test methods; Bituminous roof membranes; *BSS55. SP305-6.*
- Performance attributes; Performance criteria; Physical and engineering properties; Test methods; Bituminous roof membranes; *15629. SP305-7.*
- Performance characteristic; Pressure transducer; Temperature effects; Test method; Thermal transient; Laser; *TN72. SP305-4.*
- Performance characteristics; Batteries; Battery comparison; Communications; Law enforcement; *13124. SP305-5.*
- Performance characteristics; Bonded resistance strain gage; Combined effects; Evaluation tests; Fatigue; High temperature; *15096. SP305-7.*
- Performance characteristics; Performance parameters; Rain tightness; Sealed glazing units; Wind loading; Window; Airtightness; *SP361, Vol. 1, pp. 375-384. SP305-4.*
- Performance characteristics; Performance criteria; Specifications; Standards; Building components; Codes gaseous hydrogen; Liquid rocket propellants; *9851. SP305-1.*
- Performance characteristics; Performance criteria; Specifications; Standards; Building components; Codes; Laboratory procedures; *9530. SP305-1.*
- Performance characteristics; Performance level; Sanitary plumbing fixtures; Scratch resistance; Stain resistance; Surface impact resistance; Test methods; Abrasion resistance; Chemical resistance; Cigarette-burn resistance; Cleanability and soilability; Concentrated static-load capacity; *BSS. SP305-2.*
- Performance characteristics; Piezoelectric; Test method; Thermal radiation; Thermal transient; Zero shift; Accelerometer; *TN855. SP305-7.*
- Performance characteristics; Refrigeration accessories; Valve; Water-flow regulation; *13549. SP305-5.*

Performance characteristics; Specifications; Wear; Adhesion; Floor coverings; Organic coatings; *11204. SP305-2.*

Performance characteristics; Telemetry; Transducer; Dynamic calibration; Evaluation; InterAgency Transducer Project; *TN469. SP305-1.*

Performance characteristics for piping; Thermal/structural performance of piping; Thermoplastic piping in plumbing; Fire performance of piping; Functional performance of piping; *BSS68. SP305-7.*

Performance coefficients; Thermal insulation; Transient heat transfer; *12471. SP305-4.*

Performance concept; Building code provisions; Building codes; Building component classification; Building specifications; Building standards; *BSS90. SP305-8.*

Performance concept; Building codes; Building technology; Energy conservation; Evaluation and acceptance system; National Bureau of Standards; National Conference of States on Building Codes and Standards; *14642. SP305-6.*

Performance concept; Building construction; Building design; Building materials; Building research; Environmental protection; International cooperation; International standards; Materials conservation; Materials science; *16027. SP305-8.*

Performance concept; Performance products; Performance testing; User needs; **BREAKTHROUGH**; Building performance; Construction; Contracting; Performance assessment; *14661. SP305-6.*

Performance concept; Performance standards; Engineering standards; *11102. SP305-2.*

Performance concept; Performance-judgement approach; Proposed international generic building classifications; Proposed international subsystem classification models; Systems approach; User needs; Buildings; Design process; Performance; *SP361, Vol. 1, pp. 201-206. SP305-4.*

Performance concept; Plastics; Property tests; Building materials; Concrete; Functions in building; Material prescriptions; *SP361, Vol. 1, pp. 733-740. SP305-4.*

Performance concept; Plastics in fire; Rain penetration; Robustness of construction; Technical evaluation; Uniformity of assessment; Weathering; Agrément; Durability prediction; Economic aspects; Evaluative judgement; *SP361, Vol. 1, pp. 191-502. SP305-4.*

Performance concept; Quality description; System approach; Building; Design process; ER-system; Performance; *SP361, Vol. 1, pp. 191-200. SP305-4.*

Performance concept; Task contrast; Veiling reflections; Visual performance; Visual task; Illumination systems; Lighting; *SP361, Vol. 1, pp. 483-490. SP305-4.*

Performance criteria; Application procedures; Built-up roofing systems; Composite membrane; Composition; *15620. SP305-6.*

Performance criteria; Building codes; Building standards; Housing; *15372. SP305-7.*

Performance criteria; Department of Housing and Urban Development; Housing; Industrialized housing; Innovative housing; National Academies of Sciences and Engineering; National Bureau of Standards; *SP361, Vol. 1, pp. 255-260. SP305-4.*

Performance criteria; Design evaluation; Design specification; Design synthesis; Environmental systems; Goal statements; Parameter definition; *SP361, Vol. 1, pp. 1-12. SP305-4.*

Performance criteria; Performance design; RAS (Recherches en managements Scolaires); SCSD (School Construction System Development); SEF (Study of Educational Facilities); SP (Schoolhouse Systems Program); *SP361, Vol. 1, pp. 297-301. SP305-4.*

Performance criteria; Performance evaluation; Stiffness; Strength; Structural engineering; Structures; User requirements; Vibration; Deflection; Load capacity; *SP361, Vol. 1, pp. 261-266. SP305-4.*

Performance criteria; Performance evaluation; Service loads; Stiffness; Strength; Testing; Variability; Accelerated aging; Building systems; Extreme loads; *SP361, Vol. 1, pp. 267-274. SP305-4.*

Performance criteria; Performance evaluation; Window characteristics; Window evaluation; Window functions; Window requirements; Window standards; *SP361, Vol. 1, pp. 385-394. SP305-4.*

Performance criteria; Performance evaluation; Performance testing; Reinforced concrete; Standard tests; Structure; Testing; Building; Connections; Housing; Neoprene; *TN706. SP305-4.*

Performance criteria; Performance evaluation; Structure; Tall buildings; User requirements; Building; *12779. SP305-4.*

Performance criteria; Performance evaluation; Performance testing; Structural analysis; Structural testing; Buckling; Columns; Creep; Creep buckling; Full-scale testing; Load capacity; *12993. SP305-4.*

PERFORMANCE criteria; Performance evaluation; Certification; Guide criteria; Innovative housing; Operation **BREAKTHROUGH**; *14662. SP305-6.*

Performance criteria; Performance methodology; Regulatory system; Agrément system; Building code of New York State; Building codes; Human requirements; National Conference of States; Performance approach; *14513. SP305-6.*

Performance criteria; Performance statement; Classes of composites; Composites for building; Evaluation; *SP361, Vol. 1, pp. 643-651. SP305-4.*

Performance criteria; Performance testing; Building code; Building systems; Housing; *12516. SP305-4.*

Performance criteria; Performance testing; Building systems; Low-income housing; *BSS25. SP305-1.*

Performance criteria; Personnel monitoring; Photographic film; Photons; Radiation measurements; Test patterns; Choice of dosimeters; Electrons; Ferrous sulfate dosimeters; Medical applications; *14095. SP305-6.*

Performance criteria; Physical and engineering properties; Test methods; Bituminous roof membranes; Performance attributes; *BSS55. SP305-6.*

Performance criteria; Physical and engineering properties; Test methods; Bituminous roof membranes; Performance attributes; *15629. SP305-7.*

Performance criteria; Physical environment; Planning and design basis; User characteristics; Human activities; *SP361, Vol. 1, pp. 13-22. SP305-4.*

Performance criteria; Physical simulation; Structural safety; Structural serviceability; Building; Evaluation; *14620. SP305-6.*

Performance criteria; Plywood subflooring; Subflooring; Underlayment; Wood-frame construction; Concentrated-load capacity; Evaluation criteria; Floors; Hardboard; Load capacity; Operation **BREAKTHROUGH**; *13388. SP305-5.*

Performance criteria; Preference scaling; Scaling; User evaluations; Visual environment; Color schemes; Field studies; Glare; Illuminance; Matrix analysis; Multidimensional scaling; *SP361, Vol. 1, pp. 121-129. SP305-4.*

Performance criteria; Process description; University facilities; Acoustical environment; Administrative procedures; Communication; Environmental criteria; Functional criteria; Interior finishes criteria; Luminous environment; *SP361, Vol. 1, pp. 331-337. SP305-4.*

Performance criteria; Reinforced concrete; Reliability; Resistance mode; Safety; Serviceability; Stability; Structures; Design mode; Limit states design; Load; *14656. SP305-6.*

Performance criteria; Roofing; Temperature effects; Tensile fatigue; Test methods; Bituminous roof membranes; Fatigue testing; Flexural fatigue; *TN863. SP305-7.*

Performance criteria; Room fires; Smoke; Wood crib; Buildings; Fire growth; Flame spread; Heat release; Interior linings; Material ignitability; *TN846. SP305-6.*

- Performance criteria; Room fires; Smoke; Wood crib; Buildings; Fire growth; Flame spread; Heat release; Interior linings; Material ignitability; *TN879. SP305-7.*
- Performance criteria; Serviceability; Static; Vibration; Deflection; Dynamic; Floor systems; Human responses; *TN900. SP305-8.*
- Performance criteria; Solar energy; Standards; Buildings; Cooling; Heating; Hot water; *NBSIR 76-1187. SP305-8.*
- Performance criteria; Specifications; Standards; Building components; Codes; Laboratory procedures; Pe; Laboratory procedures; *9330. SP305-1.*
- Performance criteria; Specifications; Standards; Building components; Codes; Laboratory procedures; Performance characteristics; *9530. SP305-1.*
- Performance criteria; Strength (floors); Vibration (floors); Deflection (floors); Dwelling; Floor (wood); Joists; Loads; *SP361, Vol. 1, pp. 593-600. SP305-4.*
- Performance criteria; Structural sandwich; Accelerated aging; Adhesives; Bonded structures; Durability; Glass fiber reinforced plastics; Housing systems; Operation BREAKTHROUGH; Paper honeycomb; *SP361, Vol. 1, pp. 761-775. SP305-4.*
- Performance criteria; Systems, building; Office buildings; *14101. SP305-6.*
- Performance criteria; Total energy; Building research; Industrial building; *14643. SP305-6.*
- Performance criteria; Waterproofing materials; Water repellent materials; Accelerated weathering; Durability of waterproofing materials; Masonry; *TN883. SP305-7.*
- Performance criteria, plumbing; Performance, functional; Single-stack drainage; Siphonage, induced; Siphonage, self; Test loads, hydraulic; Trap-seal reduction detector; Trap-seal retention; Crossflow; Field testing, plumbing; *13778. SP305-5.*
- Performance data; Regulatory process; Standards; Construction; Hurricane Agnes; Housing; Mobile homes; Mobile home parks; *NBSIR 75-641. SP305-7.*
- Performance data; Regulatory process; Standards; Computer techniques; Construction; Enforcement process; Housing; Hurricane Agnes; Mobile home parks; Mobile homes; *NBSIR 76-1058. SP305-8.*
- Performance data; Standards; Computer techniques; Enforcement process; Housing; Hurricane Agnes; Mobile home parks; Mobile homes; *NBSIR 75-690. SP305-7.*
- Performance data; Standards; Enforcement process; Field inspection; House trailers; Housing; Hurricane Agnes; Mobile homes; *NBSIR 75-688. SP305-7.*
- Performance data analysis; Performance data presentation; Performance monitoring; Computer system performance evaluation; Experimental assessment of system behavior; *SP406, pp. 103-108. SP305-7.*
- Performance data presentation; Performance monitoring; Computer system performance evaluation; Experimental assessment of system behavior; Performance data analysis; *SP406, pp. 103-108. SP305-7.*
- Performance design; RAS (Recherches en Amenagements Scolaires); SCSD (School Construction System Development); SEF (Study of Educational Facilities); SSP (Schoolhouse Systems Program); *SP361, Vol. 1, pp. 297-301. SP305-4.*
- Performance (engineering); Sensors; Superconductors; Liquefied gases, liquid level gages; Liquid level gages, hydrogen; Liquid rocket propellants; *9851. SP305-1.*
- Performance envelope; Predicting product reliability; Design engineering; Material deterioration; Mechanical failure; Mechanical integrity; Mechanical reliability; *SP423, pp. 199-208 (Apr. 1976). SP305-8.*
- Performance evaluation; Architectural psychology; Dwelling unit; Federal building research; Industrialized housing; Occupant behavior; Operation Breakthrough; *15190. SP305-7.*
- Performance evaluation; Certification; Guide criteria; Innovative housing; Operation BREAKTHROUGH; PERFORMANCE criteria; *14662. SP305-6.*
- Performance evaluation; Computer graphics; Cost-benefit analysis; Cost-effectiveness; Economics; *TN826. SP305-6.*
- Performance evaluation; Computer graphics; Cost-benefit analysis; Cost-effectiveness; Economics; *15072. SP305-7.*
- Performance evaluation; Cost analysis; Design criteria; External envelope; Office building; *SP361, Vol. 1, pp. 395-400. SP305-4.*
- Performance evaluation; Cost-benefit analysis; Cost-effectiveness; Economics; Interactive systems; *15633. SP305-7.*
- Performance evaluation; Performance requirements; User requirements; Buildings; Components; Design procedure; Experience in use; Materials; *SP361, Volume 1. SP305-4.*
- Performance evaluation; Performance requirements; User requirements; Buildings; Components; Design procedure; Experience in use; Materials; *SP361, Volume 2. SP305-4.*
- Performance evaluation; Performance testing; Reinforced concrete; Standard tests; Structure, testing; Building; Connections; Housing; Neoprene; Performance criteria; *TN730. SP305-4.*
- Performance evaluation; Performance testing; Structural analysis; Structural testing; Buckling; Columns; Creep; Cracking; buckling; Full-scale testing; Load capacity; Performance criteria; *12993. SP305-4.*
- Performance evaluation; Performance factors; Resource utilization; User competence; End-user satisfaction; *SP406, pp. 103-112. SP305-7.*
- Performance evaluation; Performance measurement; Software monitors; Accounting systems; Hardware monitors; *SP406, pp. 113-117. SP305-7.*
- Performance evaluation; Performance measurement; Service; Computer networks; Data analysis; Interactive; Network service; *TN897. SP305-8.*
- Performance evaluation; Pore size distribution; Porosity; Specific surface; Materials; *SP361, Vol. 1, pp. 669-675. SP305-4.*
- Performance evaluation; Programmable robots; Specifications; Guidelines; Industrial robots; Manipulator; *SP459. SP305-7.*
- Performance evaluation; Service loads; Stiffness; Strength; Testing; Variability; Accelerated aging; Building systems; External loads; Performance criteria; *SP361, Vol. 1, pp. 267-275. SP305-4.*
- Performance evaluation; Stages of building; Application of performance concept; Building levels; External factors; Internal factors; Performance analysis; *SP361, Vol. 1, pp. 219-225. SP305-4.*
- Performance evaluation; Stiffness; Strength; Structural engineering; Structures; User requirements; Vibration; Deflection; Load capacity; Performance criteria; *SP361, Vol. 1, pp. 261-266. SP305-4.*
- Performance evaluation; Structure; Tall buildings; User requirements; Building; Performance criteria; *12779. SP305-4.*
- Performance evaluation; User control of computing; Users' performance evaluation; Users' performance measures; Computer performance evaluation; Computer resource allocation; Computer service parameters; Computer system performance; Cost-effectiveness; *SP406, pp. 65-71. SP305-7.*
- Performance evaluation; Window characteristics; Window evaluation; Window functions; Window requirements; Window standards; Performance criteria; *SP361, Vol. 1, pp. 394-399. SP305-4.*
- Performance evaluation of secure computer systems; Security; data transmission; Security, file access; Security, identification (password); Security, input and output processing; Security software; Software monitors; Computer performance; Computer security; *SP406, pp. 83-86. SP305-7.*



Performance factors; Resource utilization; User competence; End-user satisfaction; Performance evaluation; *SP406*, pp. 39-42. **SP305-7.**

Performance, functional; Single-stack drainage; Siphonage, induced; Siphonage, self; Test loads, hydraulic; Trap-seal reduction detector; Trap-seal retention; Crossflow; Field testing, plumbing; Performance criteria, plumbing; *13778*. **SP305-5.**

Performance guidelines; Protective coatings; Rigid polyurethane; Roofing; Durability; Fire safety; *TN778*. **SP305-5.**

Performance language; Performance specifications; Performance type tests; Test development; *11610*. **SP305-2.**

Performance level; Sanitary plumbing fixtures; Scratch resistance; Stain resistance; Surface-impact resistance; Test methods; Abrasion resistance; Chemical resistance; Cigarette-burn resistance; Cleanability and soilability; Concentrated static-load capacity; Performance characteristics; *BSS22*. **SP305-2.**

Performance (long term); Reliability; Rubidium; Stability; Aging; Calibration (USFS); Frequency standards; Gas cells; *TN341*. **SP305.**

Performance measurement; Characteristics; Computer-aided design; Interactive graphics; Man-machine interaction; *13797*. **SP305-5.**

Performance measurement; Computer architecture; Functional evaluation; Hardware monitor; Measurement tools; *SP406*, pp. 75-78. **SP305-7.**

Performance measurement; Computer networks; Data acquisition; Man-machine interaction; Minicomputer; Network measurement; *TN912*. **SP305-8.**

Performance measurement; Production indices; Production measurement; Impact; Objectives, output; *TN890*. **SP305-7.**

Performance measurement; Quality; Seller; Specifications; Validation; Buyer; Computer software; Marketplace; *15495*. **SP305-7.**

Performance measurement; Service; Computer networks; Data analysis; Interactive; Network service; Performance evaluation; *TN897*. **SP305-8.**

Performance measurement; Software monitors; Accounting systems; Hardware monitors; Performance evaluation; *SP406*, pp. 113-117. **SP305-7.**

Performance measurement; Test data bases; Test transactions; Benchmark testing; Data base management; *15670*. **SP305-7.**

Performance measurement; Time-sharing; Computer networks; Interactive computing; Man-machine interaction; *TN880*. **SP305-7.**

Performance methodology; Regulatory system; Agrément system; Building code of New York State; Building codes; Human requirements; National Conference of States; Performance approach; Performance criteria; *14513*. **SP305-6.**

Performance monitoring; Computer system performance evaluation; Experimental assessment of system behavior; Performance data analysis; Performance data presentation; *SP406*, pp. 103-108. **SP305-7.**

Performance monitoring; Performance variability; Computer performance analysis; Measurement; *SP406*, pp. 109-112. **SP305-7.**

Performance monitoring; Testing; Data acquisition; Data dissemination; Data processing; Maintenance; Operational readiness; *SP336*, pp. 549-568. **SP305-3.**

Performance objectives; Computer architecture; Computer performance evaluation; Installation management; Measurement; Modeling; Monitoring; Operating systems; *SP406*. **SP305-7.**

Performance of buildings; Standards; Test methods; Urban planning; User needs; Building systems; *BSS1*. **SP305-2.**

Performance of patrol cars; Police patrol cars; Problems with patrol cars; State of the art survey; Functional requirements; Patrol cars; *15826*. **SP305-8.**

Performance of patrol cars; Police patrol cars; Problems with patrol cars; State of the art survey; Functional requirements; Patrol cars; *NBSIR 75-960*. **SP305-8.**

Performance of plastics outdoors; Plastics; Weathering of plastics; Manufacturing Chemists' Association (MCS); *13399*. **SP305-5.**

Performance of plumbing; Single stack plumbing; Criteria for plumbing; Hydraulic test loads; *BSS41*. **SP305-4.**

Performance of plumbing systems; Plumbing code; Principles of hydraulics; National Bureau of Standards; *15024*. **SP305-7.**

Performance parameters; Rain-tightness; Sealed glazing units; Wind loading; Window; Air-tightness; Performance characteristics; *SP361*, Vol. 1, pp. 375-384. **SP305-4.**

Performance prediction; Simulation; Software validation; Tools; Actual system performance; Computer performance evaluation; *SP406*, pp. 79-82. **SP305-7.**

Performance products; Performance testing; User needs; BREAKTHROUGH; Building performance; Construction; Contracting; Performance assessment; Performance concept; *14661*. **SP305-6.**

Performance requirement; Scratch resistance; Testing; Water-spray repelling; Components; Dirt repelling; Evaluation; Feed-back; Open system; *SP361*, Vol. 1, pp. 529-534. **SP305-4.**

Performance requirements; Building systems; Education; Government sponsored research, need for; Housing—industrial, innovated, prototype, low-rise high-density industrialization; *SP361*, Vol. 1, pp. 339-344. **SP305-4.**

Performance requirements; Building elements; Building materials; Evaluation; Performance; *SP361*, Vol. 1, pp. 519-529. **SP305-4.**

Performance requirements; Building research; Building standards; Measurement techniques; *14564*. **SP305-6.**

Performance requirements; Physical security; Standards; Building codes; Door assemblies; *16142*. **SP305-8.**

Performance requirements; Problem seeking; Statement of the whole problem; User needs; Analytical procedures; Architectural programming; Buildings; *SP361*, Vol. 1, pp. 43-55. **SP305-4.**

Performance requirements; Properties; Quality classes; Rolling load; Surface evenness; Test methods; Warmth to touch; Colour fastness; Flatness; Flooring; Indentation; *SP361*, Vol. 1, pp. 601-612. **SP305-4.**

Performance requirements; Required conditions; Users' activities; Users' characteristics; Organization of performance factors; *SP361*, Vol. 1, pp. 23-30. **SP305-4.**

Performance requirements; Resilient types; Test methods; Textile types; Vehicle movement; Carpet; Floor coverings; Foot comfort; *11792*. **SP305-2.**

Performance requirements; Selection; Building; Classification; Comparison; Elements; Materials; *SP361*, Vol. 1, pp. 507-518. **SP305-4.**

Performance requirements; Standards; Aluminum; Fire department; Ladders; *TN833*. **SP305-6.**

Performance requirements; Standards; Test methods; Watthour meters; Code; Definitions; Demand meters; Electricity metering; *15829*. **SP305-8.**

Performance requirements; Telecommunications; Computer communications; Computer networking; Data communications; Networks; *TN882*. **SP305-7.**

Performance requirements; Telecommunications; Computer communications; Computer networking; Data communications; Networks; *16551*. **SP305-8.**

Performance requirements; User requirements; Buildings; Components; Design procedures; Experience in use; Materials; Performance evaluation; *SP361*. **Volume 1. SP305-4.**

Performance requirements; User requirements; Buildings; Components; Design procedures; Experience in use; Materials; Performance evaluation; *SP361*. **Volume 2. SP305-4.**

Performance results; Propellant management; Substitute fluid; Volume flow; Accuracy; Calibration; Commodity transfer; Cryogenic; Cryogenic processes; Density; Flowmeters; Mass flow; Mass flowmeters; 9428. SP305.

Performance, sewing thread; Properties, sewing thread; Quality control, sewing threads; Sewing threads; Testing programs, sewing thread tests, sewing thread; Thread properties; Threads, sewing; Apparel industry; Industry, apparel; 12382. SP305-4.

Performance specification; Prefabricated dwelling; Standards; Structural design; Earthquake; Housing; SP444, pp. IV-55-IV-69 (Apr. 1976). SP305-8.

Performance specification; Rehabilitation; Renovation; Abatement; Detection; Heat-gun; Lead paint; Materials evaluation; 15591. SP305-7.

Performance specification; Technology incentives; ETIP; Government procurement policy; Noise reduction; NBS-GCR-ETIP 73-04. SP305-8.

Performance specification; Technology incentives; Energy conservation; ETIP; Government procurement policy; Noise reduction; NBS-GCR-ETIP 73-05. SP305-8.

Performance specifications; Architecture; Construction; Design; Hospital design; Management; Medical facilities; B5534, pp. 45-48. SP305-6.

Performance specifications; Building process; Building systems; "closed" systems; Management; Office buildings; "open" systems; SP361, Vol. 1, pp. 357-374. SP305-4.

Performance specifications; Environmental characteristics; Performance; SP361, Vol. 1, pp. 171-180. SP305-4.

Performance specifications; Performance type tests; Test development; Performance language; 11610. SP305-2.

Performance specifications; Procurement process; SCSD; Structure; Subsystem; URBS; ABS; Building systems; College buildings; Dormitories; HVC; Laboratories; Lighting/ceiling; SP361, Vol. 1, pp. 303-315. SP305-4.

Performance specifications; Procurement mechanisms; Technology incentives; ETIP; Government procurement; NBS-GCR-ETIP 73-02. SP305-8.

Performance specifications; Product performance; Technology; Environmental pollution; 12570. SP305-4.

Performance specifications; Properties of building materials; Standardization; Building components design; Building procedures; Contracting procedures; SP361, Vol. 1, pp. 289-296. SP305-4.

Performance specifications; Prototypes; S.C.S.D., R.A.S.; Strategy; Systems approach; Technology and feasibility; User needs; Bid evaluation; Building systems; Criteria and tests; Educational facilities; Life cost; SP361, Vol. 1 pp. 317-330. SP305-4.

Performance specifications; Schematic diagrams; Specifications; Specification writer; Cascade heater; Insulated underground piping; Insulation; Limitation of liability, "or equal" specifications; B5566, pp. 78-87. SP305-7.

Performance standard; Personnel railings; Personnel safety; Static loads; Stiffness; Structural safety; Design; Dynamic loads; Guardrails; Industrial accidents; Nonstructural safety; Occupational hazards; NBSIR 76-1131. SP305-8.

Performance standard; Personnel railings; Personnel safety; Structural safety; Anthropometric measurements; Guardrails; Industrial accidents; Nonstructural safety; Occupational hazards; NBSIR 76-1132. SP305-8.

Performance standard; Pressure transducers; SRM; Surgical implants; Testing; Thermal transients; Architectural heritage; Fire; Guardrail; High-capacity; Mathematics; Mercury; DIM/NBS 60, No. 8, 1-24 (1976). SP305-8.

Performance standard; Privacy; Scramblers; Speech quality; Speech scramblers; Survey; Testing; Voice privacy; Intelligence; LESL; NILECI; 14714. SP305-6.

Performance standard; Security; Weapon detection; Handgun detection; Metal detector; 15306. SP305-7.

Performance standard; Specifications; Test procedures; Breach; alcohol; Instruments; 14778. SP305-7.

Performance standard; Thermal performance; Ventilation; Water heating; Air leakage; Building design; Energy conservation; Fenestration; HVAC systems; Illumination; Insulation; Lighting; NBSIR 74-452. SP305-8.

Performance standard; Transceiver; Transmitter; Communications; Law enforcement; Mobile transceiver; 14922. SP305-7.

Performance standard, EOD; Bomb disarmament; Explosive; ray equipment; 16346. SP305-8.

Performance standards; Accelerated tests; Bathtubs; External wall units; Innovation; Long-time behavior; 9452. SP305.

Performance standards; Engineering standards; Performance concept; 11102. SP305-2.

Performance standards; Photoelectric detector; Detection; Detectors; Fire fatalities; Gas detectors; Ionization chamber detectors; 15218. SP305-7.

Performance standards; Pollution; Technology; 12637. SP305-4.

Performance standards; Product standards; Standardization; New technology; 12245. SP305-3.

Performance standards; Project plans; Protective equipment; Security equipment; Standards; Warning lights and sirens; Anthropometry; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LE NBSIR 74-529. SP305-6.

Performance standards; Project plans; Protective equipment; Security equipment; Standards; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; NBSIR 74-568. SP305-6.

Performance standards; Reference ethanol solutions; Breathalyzer analyzers; Dichromate oxidimetry; 15203. SP305-7.

Performance standards; Safety codes; Simplified practice recommendations; Standards of quality; Voluntary standardization; Government/non-government cooperation; 10505. SP305-1.

Performance standards; Simulation of building requirements; Systems design; Building codes; Building systems; Composite systems; SP361, Vol. 1, pp. 213-218. SP305-4.

Performance standards; Technological measurements and standards; 11362. SP305-2.

Performance standards; Weapon detection; Metal detector; 14680. SP305-6.

Performance statement; Classes of composites; Composite building; Evaluation; Performance criteria; SP361, Vol. 1, pp. 643-651. SP305-4.

Performance statement; Plumbing performance criteria; Plumbing performance evaluation; Plumbing performance; Acceptance protocol; Performance approach; Performance based plumbing standard; 16654. SP305-8.

Performance terminology; Predictability; Requirements; Variables; Workload; Computer system; Factors; Measurement parameters; Performance; SP406, pp. 53-60. SP305-7.

Performance test; Precast concrete; Structural design; Building system; Column connection; Concrete triaxial strength; Intensity; Neoprene bearing pad; Operation Breakthrough; TN811. SP305-6.

Performance testing; Branch circuits; Contact resistance; Electrical codes; Electrical connections; Fire safety; House wiring; NBSIR 75-672. SP305-7.

Performance testing; Building code; Building systems; Household; Performance criteria; 12516. SP305-4.

Performance testing; Building systems; Low-income housing; Performance criteria; B5525. SP305-1.

Performance testing; Contact resistance; Electrical codes; Electrical connections; Fire safety; House wiring; Materials properties; B5563. SP305-7.

Performance testing; Process control; Real-time; RTOS; Automation; Calibration; Fuel control; Jet engine; Minicomputer; Multi-task; 15550. **SP305-7.**

Performance testing; Qualified products lists; Testing; Acceptance testing; Compliance testing; Laboratory evaluation; *NBSIR 75-719. SP305-8.*

Performance testing; Reduced-size vents; Trap-seal retention; Venting; Venting criteria; Vents, reduced-size; DWV; *BSS60. SP305-7.*

Performance testing; Reinforced concrete; Standard tests; Structure, testing; Building; Connections; Housing; Neoprene; Performance criteria; Performance evaluation; *TN706. SP305-4.*

Performance testing; Structural analysis; Structural testing; Buckling; Columns; Creep; Creep buckling; Full-scale testing; Load capacity; Performance criteria; Performance evaluation; *T2993. SP305-4.*

Performance testing; User needs; BREAKTHROUGH; Building performance; Construction; Contracting; Performance assessment; Performance concept; Performance products; *14661. SP305-6.*

Performance tests; Automated testing; Bit comparison; FORTRAN library; Function validation; Mathematical functions; *77B Nos. 3 and 4, 101-110 (1973). SP305-5.*

Performance tests; Polymers, analysis of test data in statistical analysis; Test data, analysis; Test methods, comparison of; Homogeneity, tests of; Data processing; Design of experiments; *9921. SP305-1.*

Performance tests; Precast concrete; Structural design; Building system; Column connection; Concrete triaxial strength; Ductility; Neoprene bearing pad; Operation BREAKTHROUGH; *3401. SP305-5.*

Performance type tests; Test development; Performance language; Performance specifications; *11610. SP305-2.*

Performance variability; Computer performance analysis; Measurement; Performance monitoring; *SP406, pp. 109-112. SP305-7.*

Performance-based plumbing standard; Performance statement; Plumbing performance criteria; Plumbing performance evaluation; Plumbing performance; Acceptance protocol; Performance approach; *16654. SP305-8.*

Performance-judgement approach; Proposed international generic building classifications; Proposed international subsystem classification models; Systems approach; User needs; Buildings; Design process; Performance; Performance concept; *SP361, Vol. 1, pp. 201-206. SP305-4.*

Perimeter sensor; Switch; Burglar alarm sensor; Burglar alarm system; Door switch; Magnetically actuated; *14361. SP305-8.*

Perimeter sensor; Switch; Burglar alarm sensor; Burglar alarm system; Door switch; Mechanically actuated switch; *14679. SP305-6.*

Photooxidation of pyrene; Synthesis of 1,1'-bipyrene; *3194. SP305-1.*

Photodes; Review; Application; Bio-organic; Methods; Organic; Oxidation; *14154. SP305-6.*

Photodes; Thermal decomposition; Thermodynamic functions; Bromates; Bromites; Chlorates; Chlorites; Critically evaluated acids; Iodates; Iodites; Perbromates; Perchlorates; *J. Phys. Chem. Ref. Data 3, No. 2, 481-526 (1974). SP305-6.*

Photocopy; Pigment; Structure; Acid; Bile; Bilirubin; Biliverdine; Charge-transfer; Complex; Degradation; Iodine; Methylsulfoxide; *12530. SP305-4.*

Phenolic acid;  $\beta$ -diketones; Acyclic; Iodic acid; Iodo derivatives; *302. SP305-2.*

Phenolic acid; Coupling; Dialkylphenols; Dimethylformamide; Indered; Oxidation; *13643. SP305-5.*

Phenolic acid; Phenylazo compounds; Phenylhydrazine; Action; Cyclohexanediene; Ene-hydrate; Enol; *11535. SP305-2.*

Periodic acid; Polycyclic air-pollutants; Polyhydroxy cyclic compounds; Standard reference materials; Sucrose; Sulfonic Ka measurements; Urea; Uric acid; Acetylation; Analysis of corn syrups; Carbohydrate structure and characterization; Cholesterol; *TN457. SP305-1.*

Periodic acid; Polymeric product; Stable free radical; Azulene; *10345. SP305-1.*

Periodic acid; Pyrene radical; Quinones; Reaction mechanism; Sodium metaperiodate; Aprotic solvents; Aromatic hydrocarbons; Malonic acid; *J.72A No. 4, 341-350 (1968). SP305-1.*

Periodic acid; Radical; Aromatic; Azines; Cleavage; Complex; Nitrogen paramagnetic; *12095. SP305-3.*

Periodic acid; Rules; Symmetry; Acid; Benzalazine; Cleavage; Complex; Molecular; Orbital; *12593. SP305-4.*

Periodic functions; Quadrature; Approximation; Banach-Steinhaus Theorem; Fourier Series; Multiple integrals; Number theory; Numerical analysis; *10967. SP305-2.*

Periodic (functions); Quadrature; Continued fraction; Diophantine approximation; Integration; Multiple integration; Number theory; Numerical analysis; Numerical integration; *11584. SP305-2.*

Periodic precipitation; Diffusion; Liesegang rings; *M292. SP305.*

Periodic surfaces; Polarization; Random surfaces; Reflectance; Reflectance of coherent radiation; Scattering; Scattering theory; Surface roughness; Transmittance; Bibliography; Emittance; Heat transfer; Measurement techniques; *J. Res. 80A No. 2, 207-220 (1976). SP305-8.*

Periodically continued neighborhood; Binary alloys; Density of states; Disordered systems; *SP323, pp. 465-469. SP305-4.*

Periodically continued neighborhood; Binary alloys; Density of states; Disordered systems; *J.74A No. 3, 443-447 (1970). SP305-2.*

Periodicities, atomic spectra; Rare-earth spectra; Regularities, atomic spectra; Solar spectra; Atomic spectra; Coronal spectra; *12288. SP305-3.*

Periodicity; Quadrature; Algebraic numbers; Approximation; Diophantine approximation; Exponential sums; Functions of several variables; Geometry of numbers; Good lattice points; Numerical integration; Optimal coefficients; *13128. SP305-5.*

Peripheral nerve repair; Tubular prosthesis; Neuroorthaphical procedures; *SP415, pp. 91-98. SP305-7.*

Peritectic reaction; Sn-Cd alloys; Structure; Alloy; Directional solidification; Incongruent melting alloy; *14748. SP305-7.*

Perlite concrete; Thermal expansion; Vermiculite concrete; Cellular concrete; Drying shrinkage; Foam concrete; Low density concrete; *12705. SP305-4.*

Perlite horticultural grade; Horticultural grade; *PS23-70. SP305-2.*

Permafrost; Piling; Soil corrosion; Steel; Steel piles; Underground; Corrosion; *11653. SP305-2.*

Permafrost; Seasonal frost; Snow drifting; Utilidors; Ventilation; Air leakage; Arctic; Central heat distribution systems; Construction materials; Drainage; Insulation; *BSS66, pp. 122-135. SP305-7.*

Permafrost region; Pipe piling; Pit depth; Polarization; Sheet piling; Undisturbed soil; Weight loss; Active region; Aerated soil; Corrosion; Disturbed soil; Excavated; Extracted; H-piling; Instantaneous corrosion rate; Mill scale; *Monogr. 127. SP305-4.*

Permanence; Record materials; Record papers; Stability; Accelerated aging; Natural aging; *NBSIR 75-739. SP305-7.*

Permanent; Positive definite hermitian matrix; Fischer inequality; Hadamard determinant theorem; *J.75B Nos. 1 and 2, 77-80 (1971). SP305-3.*

Permanent magnet, erasure with; Shielding; Erasure, magnetic media; Erasure, permanent magnet; Erasure, shielding against; Erasure, signal loss due to; Magnet fields, erasure with; Magnetic media, computer; Magnetic media, information damage; Permanent magnets; *TN735. SP305-4.*

- Permanent magnet standards; Reference magnets; Calibration, permanent magnet standards; Magnet standards; 9245. SP305.
- Permanent magnets; Permanent magnet, erasure with; Shielding; Erasure, magnetic media; Erasure, permanent magnet; Erasure, shielding against; Erasure, signal loss due to; Magnet fields, erasure with; Magnetic media, computer; Magnetic media, information damage; *TN735*. SP305-4.
- Permanent papers; Record papers; Stability of paper; Accelerated aging; Aging; Natural aging; Paper, permanent; Paper, stability; *NBSIR 74-632*. SP305-7.
- Permanent record film; Archival film; Hypo; Microfilm; *J75C No. 1, 19-22 (1971)*. SP305-3.
- Permanent record film; Peroxides; Archival record film; Blemishes due to aging; Colloidal silver; Microfilm; Microfilm storage cartons; *J72A No. 3, 251-259 (1968)*. SP305-1.
- Permanent record film; Peroxides; Redox blemishes; Zinc powder; Archival record film; Microfilm; Microfilm storage cartons; *J74A No. 1, 31-36 (1970)*. SP305-2.
- Permanent set; Polymers; Rubbers, viscoelasticity; Anisotropy; Chemorheology; Degradation; Elasticity; Finite deformation; Incompressible materials; *16339*. SP305-8.
- Permanental adjoint; Positive semidefinite hermitian matrix; Symmetry class of tensors; *15314*. SP305-7.
- Permanental inequality; Row-stochastic matrix; Non-negative row-stochastic matrix; *10252*. SP305-1.
- Permanents; Circulants; Congruences; *J74B No. 1, 37-40 (1970)*. SP305-2.
- Permanents; Stochastic matrices; Minors; Non-negative matrices; *9609*. SP305-1.
- Permeability; Critical field; Field dependence; Nickel pellets; Nickel powder; Nuclear resonance; *9575*. SP305-1.
- Permeability; Permittivity; Pressure broadening; Relaxation; Spectra; Absorption; Dielectric loss; Gases; Impact; Line shape; Microwave; *9577*. SP305-1.
- Permeability; Permittivity; Review; Bibliography; Dielectric constant; Ferromagnetic resonance; *9612*. SP305-1.
- Permeability; Plastic deformation; Sorption; Crazing; Crystalline polymer solid; Diffusion; Elastic deformation; *15237*. SP305-7.
- Permeability; Radio materials measurement; Review of radio materials; Dielectric constant; Dielectric loss; Ferromagnetic resonance; *9611*. SP305-1.
- Permeability; Rf magnetic materials; VHF bridge; VHF magnetic materials; Admittance meter; Attenuation calibration; Lossy magnetic materials; Magnetic measurement methods; *J72C No. 1, 81-89 (1968)*. SP305-1.
- Permeability; Ripple; Sand transport; Oscillatory flows; *15145*. SP305-7.
- Permeability; Spin waves; Tensor permeability; YIG; External tensor permeability; Ferrimagnetic resonance; Ferrites; Garnet; Low magnetic field effects; *9395*. SP305.
- Permeability effect on sand transport; Ripples, sand; Sand motion under waves; Beach accretion; Coastal processes; Offshore zone; Oscillatory water tunnel; *15793*. SP305-8.
- Permeability of polymers; Cole-Cole plots; Dielectric constants of polymers; Dielectrics; Electric dispersion; *16290*. SP305-8.
- Permeability techniques; Frequency range; Magnetic core; *9196*. SP305.
- Permeation; Permeation tubes; Polymer structure; Sulfur dioxide; Density; Fluorocarbon copolymer; Morphology; *15509*. SP305-7.
- Permeation; Porous glass; Proteins; Sodium dodecyl sulfate; Chromatography; Controlled pore glass; Denaturing solvents; Glass; Molecular weight; *14068*. SP305-6.
- Permeation; Water vapor permeability; Absorption, water; Adsorption, water vapor; Leather; *9465*. SP305.
- Permeation in polymers; Polymeric films; Reverse osmosis; Sulfur polymer interactions; Aromatic polyamide membrane Desalination; Diffusion; Membranes; NMR; *13438*. SP305-
- Permeation tubes; Polymer structure; Sulfur dioxide; Dens Fluorocarbon copolymer; Morphology; Permeation; *15509*. SP305-7.
- Permeation tubes; Propane; Sulfur dioxide; Air pollution; Carbon monoxide; Gas analysis; *15552*. SP305-7.
- Permissible limits; Radiation; Regulations; Standards; Trans standards; Government agencies; Measurement assurance program; *14583*. SP305-6.
- Permitted; Transition probability; Atomic; Discrete; Forbidden; *SP320*. SP305-2.
- Permittivity; Dielectric breakdown; Dielectric constant; Dielectric standards; Electrical insulation; Instrumentation; Measurement; *9754*. SP305-1.
- Permittivity; Dissipation factor; Loss index; Dielectric strength; Arc resistance; Tracking; Measurements; Electrical test Conductance; Dielectric conductance; Conductivity; Volume conductivity; Insulation conductance; Resistance; *91*. SP305.
- Permittivity; Pressure broadening; Relaxation; Spectra; Absorption; Dielectric loss; Gases; Impact; Line shape; Microwave Permeability; *9577*. SP305-1.
- Permittivity; Refractive index; Spectroscopy; Dielectric constant; Electric dipole moments; Gas phase; Microwave Microwave absorption; Molecular beam; *NSRDS-NBS*. SP305.
- Permittivity; Review; Bibliography; Dielectric constant; Ferromagnetic resonance; Permeability; *9612*. SP305-1.
- Permittivity; Standard dielectric; Cavity method for dielectric Dielectric constant; Dielectric loss; International comparison Laboratory intercomparison; *14999*. SP305-7.
- Permittivity; Static dielectric constant; Dielectric constant; Dielectric loss; *J. Phys. Chem. Ref. Data 2, No. 2, 313-4 (1973)*. SP305-6.
- Permittivity measurements; Breakdown; Dielectric constant measurements; Discharges in dielectrics; Instrumentation dielectrics; *10627*. SP305-1.
- Permeable membrane; Activity; Calcium hydroxide; Detritaries; Mechanism; *14601*. SP305-6.
- Permeable membrane; Scatchard-Black method; Antibinding; Anionic detergents; Bovine serum albumin; Electrostatic interaction factor; Equilibrium dialysis; Hydrophobic interaction; *10869*. SP305-2.
- Permutation congruence; Polynomials; Direct sums; Form power series; Jordan canonical form; *15965*. SP305-8.
- Permutation group; Decomposable (or pure) tensor product; Irreducible complex character; Orthogonality relations; *Res. 80B No. 2, 259-264 (1976)*. SP305-8.
- Permutation group; Quantum mechanics; Antiferromagnetism; Cerous magnesium nitrate; Dipole-dipole interaction; Ferromagnetism; Ground state; Magnetic; *14911*. SP305-7.
- Permutation group; Quantum mechanics; Spin cluster; Symplectic Hamiltonian; Antiferromagnetism; Cerous magnesium nitrate; Dipole-dipole coupling; Ferromagnetism; Ground state; *15524*. SP305-7.
- Permutation group; *r*-fold transitivity; Stirling numbers; *1* numbers; *14538*. SP305-6.
- Permutation group; Stirling numbers; Bell numbers; Branch theorem; Clebsch-Gordon series; Irreducible characters; Matrix functions; Multiple transitivity; *J. Res. 80B No. 265-268 (1976)*. SP305-8.
- Permutation matrix decompositions; Block design; Combinatorial analysis; Configurations; König's theorem; Matrices; matrices; Matrix equations; *J75B Nos. 1 and 2, 23 (1971)*. SP305-3.
- Permutation symmetry; Quark interchange; Relative phase *SU(6)* multiplets;  $35 \times 70$ ; Coupling coefficients; *12*. SP305-4.



mutation symmetry of wave functions; Quantum mechanics; Second quantization; Field operators and statistics; Fock space; Occupation number; *13372. SP305-5.*

Imutation techniques; Precision admittance standards; Precision capacitance measurements; Transformer bridges; Transformer ratio measurements; Two-pair admittances; AC DRRS; Coaxial cable effects; Coaxial star connectors; Extrapolation techniques; Four-pair admittances; *14924. SP305-7.*

Imutation-inversion group; Vibrational coordinates; Double-valued presentation; Free internal rotation; Hamiltonian energy operator; Non-rigid molecules; *13647. SP305-5.*

Imutations; Combinatorial analysis; Convex set; Linear inequalities; *J78B No. 3, 137-138 (1974). SP305-6.*

Imuted index; Title word index; Author index; Coden; Computer bibliography; Information retrieval; *SP309, Volume 2. SP305-1.*

Imuted title index; Statistics; Bibliography; Computer indexing; Index; Key word in context; KWIC; *SP321. SP305-2.*

Imovskite; Phase equilibria; Tetraivalent iron; Ferrates; Hexagonal barium ferrate; *J73A No. 4, 425-430 (1969). SP305-3.*

Imovskite; Pressure-synthesis; Pyrochlore;  $\text{BiRhO}_3$ ; Defect structures; *SP364, pp. 219-226. SP305-4.*

Imovskite;  $\text{RbMnF}_3$ ; Born-Mayer repulsion; Born model; Elastic constants; Electrostatic interactions; *14001. SP305-6.*

Imovskite; Reflectivity; Strontium titanate; Absorption coefficient; Band structure; Electromagnetic; Optical properties; *10521. SP305-1.*

Imovskite; Semiconductivity;  $\text{SrFe}_x\text{Mn}_{1-x}\text{O}_{3-y}$ ; Antiferromagnetism;  $\text{CaFe}_x\text{Mn}_{1-x}\text{O}_{3-y}$ ; Defect structure; Mixed metal oxides; Müssbauer effect; Oxygen vacancies; *SP364, pp. 265-273. SP305-4.*

Imovskite; Solid solution; Antiferromagnetism; Curie-Weiss paramagnetism; Ferromagnetism; Metallic conductivity; *SP364, pp. 275-284. SP305-4.*

Imovskite; Strontium titanate; Transition metal; Zero phonon energy; Charge transfer, color centers; Crystal field;  $\text{D}^n$  ions; *SP364, pp. 285-293. SP305-4.*

Imovskite; Optical absorption; *16201. SP305-8.*

Imovskite like structures; Relations between structures and physical properties; Vanadium oxides; Covalence parameters; Insulator-metal transitions; *SP364, pp. 205-218. SP305-4.*

Imovskite surface composition; Rotating electrode voltammetry; Semiconductor electrode; Flat band potential; Hydrogen evolution; Oxide electrode; *SP455, pp. 229-240 (Nov. 1976). SP305-8.*

Imovskites; Phase equilibria; Strontium manganates; Tetraivalent manganese; Trivalent manganese; Four-layer  $\text{MnO}_3$ ; *11764. SP305-2.*

Imovskites; Phase stability;  $\text{A}^+\text{B}^{3+}\text{O}_3$  compounds; Ferroelectricity; *SP364, pp. 287-293. SP305-4.*

Imovskites; Polymorphism; X-ray diffraction; Chlorides, crystal structures; Double chlorides; Lattice constants; Melting point; *J73A No. 6, 621-626 (1969). SP305-1.*

Imovskites; Potassium tantalate; Band structure; Magnetoresistance; *11589. SP305-2.*

Imovskites; Surface states; Transition metal oxides; Catalysis; Chemisorption; Cluster states; Electronic structure; Energy bands; *SP455, pp. 21-52 (Nov. 1976). SP305-8.*

Imovskites; X ray; Absorption; Fine-structure; *11919. SP305-3.*

Imoxidation of polyethylene; Peroxidation of polymers; Peroxidation of polypropylene; Peroxidation of poly(vinyl chloride); Hydroperoxides versus diperoxides; Influence of polymer phase on peroxidation; Influence of temperature on peroxidation; *SP357, pp. 79-82. SP305-4.*

Imoxidation of polymers; Peroxidation of polypropylene; Peroxidation of poly(vinyl chloride); Hydroperoxides versus diperoxides; Influence of polymer phase on peroxidation; Influence of temperature on peroxidation; Peroxidation of polyethylene; *SP357, pp. 79-82. SP305-4.*

Peroxidation of polypropylene; Peroxidation of poly(vinyl chloride); Hydroperoxides versus diperoxides; Influence of polymer phase on peroxidation; Influence of temperature on peroxidation; Peroxidation of polyethylene; Peroxidation of polymers; *SP357, pp. 79-82. SP305-4.*

Peroxidation of poly(vinyl chloride); Hydroperoxides versus diperoxides; Influence of polymer phase on peroxidation; Influence of temperature on peroxidation; Peroxidation of polyethylene; Peroxidation of polymers; Peroxidation of polypropylene; *SP357, pp. 79-82. SP305-4.*

Peroxides; Archival record film; Blemishes due to aging; Colloidal silver; Microfilm; Microfilm storage cartons; Permanent record film; *J72A No. 3, 251-259 (1968). SP305-1.*

Peroxides; Polymerization; Accelerators; Amines; Dental materials; Initiators; *13669. SP305-5.*

Peroxides; Redox blemishes; Zinc powder; Archival record film; Microfilm; Microfilm storage cartons; Permanent record film; *J74A No. 1, 31-36 (1970). SP305-2.*

Peroxy radical isomerization; Poly(ethylene oxide); Polymer; Polypropylene; Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; Mechanism; Organic compound; Oxidative degradation; *SP357, pp. 85-92. SP305-4.*

Peroxy radicals; Polyolefins; Polypropylene; Alkoxy radicals; Carbonyl compounds; Chain initiation; Chain propagation; Chain termination; Kinetics; Oxidation; *SP357, pp. 95-98. SP305-4.*

Peroxy radicals; Radical isomerization; Surface effects in oxidation; Termination rates; Transition state for termination; Acetylene reaction with  $\text{O}_3$ ; Activation energy for oxidation; Chain lengths in oxidation; *SP357, pp. 121-129. SP305-4.*

Peroxyacetyl nitrate; Peroxybenzoyl nitrate; Thermochemical properties; Bond additivity method; Group additivity method; *12204. SP305-3.*

Peroxybenzoyl nitrate; Thermochemical properties; Bond additivity method; Group additivity method; Peroxyacetyl nitrate; *12204. SP305-3.*

Perpendicular band;  $\nu_2$ ; Upper state rotational constants; C—H stretching region; Coriolis interaction; Ethane; Ground state rotational constants; *10880. SP305-2.*

Perpendicular polarization; Quasi-optics; Reflection coefficient; Transverse displacement; Vector solution; Approximation errors; Complex dielectric constant; Convergence confidence interval; Contour diagrams; Dielectric liquid; Diffraction; *TN369. SP305-1.*

Perrhenyl chloride; Rhenium heptaoxide; Rhenium oxytetrachloride; Chemical vapor deposition; *12062. SP305-2.*

Perron-Frobenius eigenvalue; Diagonal scaling; Doubly stochastic matrix; *J. Res. 80B No. 4, 433-436 (1976). SP305-8.*

Perron-Frobenius eigenvalue; Spectrum of a square complex matrix;  $D$ -stable matrix; Field of values; Gergorin's theorem; Nonnegative matrix; *15770. SP305-8.*

Perron-Frobenius theory; Rate of natural increase; Stable population; Eigenvalue; Net reproduction rate; Oscillations; *J78B No. 2, 73-78 (1974). SP305-6.*

Personal data; Physical security; Privacy risk assessment; Access controls; ADP security; Computer security; Federal Information Processing Standards; Information management; *FIPS PUB 41. SP305-7.*

Personal identification; Access; Access control; Authentication; Computer networks; Computer security; Computer terminals; *15077. SP305-7.*

Personal identification; Privacy; Record identification; Risk analysis; Security; Data confidentiality; Data integrity; Encryption; *16390. SP305-8.*

Personal identification; Terminals; Verification; ADP security; Computer networks; Controlled accessibility; Encryption; Evaluation criteria; Key; Password; *16013. SP305-8.*

- Personal noise exposure meters; Exposure meters, noise; Meters noise exposure; Noise exposure meters; 14062. SP305-6.
- Personal transmitter; Portable transmitter; Radio frequency carrier; Transmitter; Audiofrequency modulation; Communications; Electromagnetic compatibility; Law enforcement; 16285. SP305-8.
- Personal uses; Relationships; Uses; Color; Environment; Experimenting with; Harmony; Hues; Illumination; Light; CIS6. SP305-7.
- Personal/portable transceivers; Primary battery; Secondary battery; Transceiver; Battery performance standard; Law enforcement communications, Law Enforcement Standards Laboratory; 16296. SP305-8.
- Personnel; Professional environment; Professional personnel; Scientists and engineers; Standing committee; Technical personnel; Environment; 9271. SP305.
- Personnel; Reactor; Dosimetry; Gamma; Intercomparison; Neutron; SP456, pp. 225-232 (Nov. 1976). SP305-8.
- Personnel and equipment protection system; Linear accelerator safety; Linear accelerator utilization; 10711. SP305-1.
- Personnel dosimeters; Film badges, TLD, HFS working group; SP456, pp. 277-284 (Nov. 1976). SP305-8.
- Personnel dosimetry; Phosphate glass; Photographic film; Radioactive sources; Thermal neutrons; X rays; Calibration; Data processing; Evaluation; Gamma rays; Intercomparison; Performance; 10920. SP305-2.
- Personnel management software; Proposal/award software; Research administration; Software exchange; Software summary; Software survey; Space management software; University systems; Directory; Equipment management software; Fiscal administration software; TN916. SP305-8.
- Personnel monitor; Piezoelectric sensor; Trace analysis; Air pollution; Chemical analysis; Dosimeter; Industrial hygiene analysis; Mercury; 15581. SP305-7.
- Personnel monitoring; Photographic film; Photons; Radiation measurements; Test patterns; Choice of dosimeters; Electrons; Ferrous sulfate dosimeters; Medical applications; Performance criteria; 14095. SP305-6.
- Personnel railings; Personnel safety; Static loads; Stiffness; Structural safety; Design; Dynamic loads; Guardrails; Industrial accidents; Nonstructural safety; Occupational hazards; Performance standard; NBSIR 76-1131. SP305-8.
- Personnel railings; Personnel safety; Structural safety; Anthropometric measurements; Guardrails; Industrial accidents; Nonstructural safety; Occupational hazards; Performance standard; NBSIR 76-1132. SP305-8.
- Personnel safety; Static loads; Stiffness; Structural safety; Design; Dynamic loads; Guardrails; Industrial accidents; Nonstructural safety; Occupational hazards; Performance standard; Personnel railings; NBSIR 76-1131. SP305-8.
- Personnel safety; Structural safety; Anthropometric measurements; Guardrails; Industrial accidents; Nonstructural safety; Occupational hazards; Performance standard; Personnel railings; NBSIR 76-1132. SP305-8.
- Personnel selection for metrology; Steady control versus sudden change; Managerial breakthrough techniques; SP335, pp. 85-88. SP305-3.
- Persulfate initiated grafting; Surface grafting; Tissue modification; Ceric ion initiated grafting; Chemical attachment to rat skin; Grafting to tissues; 14880. SP305-7.
- Perturbation; Rydberg state; Absorption spectrum; Accidental predissociation; Carbon monoxide; Emission spectrum; 15386. SP305-7.
- Perturbation; Sensitivity; Uncertainties; Cross sections; Fusion reactors; SP425, pp. 674-679. SP305-7.
- Perturbation allowed transitions; Coriolis interaction; Fermi resonance; High resolution; H<sub>2</sub>O; Infrared; 14281. SP305-6.
- Perturbation allowed transitions; Phosphine; Rotational constants; Forbidden transitions; Ground state splitting; Infrared spectrum; 13505. SP305-5.
- Perturbation allowed transitions; Rotational constants; Stretching vibrations; Infrared spectrum; Monodeuteriosilane; 13689. SP305-5.
- Perturbation analysis;  $\pi^2\Pi$ ,  $\pi^2\Pi$  states; CO; Configuration interaction; Electronic perturbation parameters; Matrix element; 13690. SP305-5.
- Perturbation approach; Waveguide junctions; Matrix element; 10253. SP305-1.
- Perturbation expansion; Product property; Strip operator; Proximity; Asymptotic behavior at large cluster separations; Banach space; Kirkwood-Salsburg equation; 1362. SP305-5.
- Perturbation expansion; Strip operator; Thermodynamic limit; Distribution functions; Finite volumes; Kirkwood-Salsburg equation; 15356. SP305-7.
- Perturbation expansion; Sum rule; Density of states; Disorder alloys; One-electron propagator; SP323, pp. 453-463. SP305-4.
- Perturbation expansion; Sum rule; Density of states; Disorder alloys; One-electron propagator; J.74A No. 2, 281-2 (1970). SP305-2.
- Perturbation of elementary excitations; Quantum liquids; Rotational minimum; <sup>4</sup>He solutions; Lifetime of excitations; Neutron scattering; 15263. SP305-7.
- Perturbation scheme; Reference system; Structure factor; Limit of stability; Mean field theory; Metastability; 16595. SP305-8.
- Perturbation theorems; Waveguide junctions; Compensation theorems; Immittance-matrix elements; 9834. SP305-1.
- Perturbation theory; Regularities; Systematic trends; Atomic oscillator strengths; 13940. SP305-6.
- Perturbation theory, Systematic trend; Nuclear charge; Oscillator strength; 11194. SP305-2.
- Perturbation-allowed transitions; Resonances; Secular determinants; Spectra; Structure; Arsine; Infrared high resolution; 14953. SP305-7.
- Perturbations; Rotational analysis; Vacuum ultraviolet region; Carbon monoxide; Diatomic spectrum; Molecular constants; 11130. SP305-2.
- Perturbations; Rotational constants; Symmetric top; Infrared; Molecular geometry; Monodeuteriomethane; 13142. SP305-5.
- Perturbations; Sodium molecule; Spectroscopy; Alkali dimers; Magnetic rotation; Molecular constants; 15516. SP305-7.
- Perturbations; Spectra; Vibrational resonance; Absorption spectra; Infrared; Methyl chloride; 10578. SP305-1.
- Perturbations; Stability; Surface tension; Water; Cylinder; Helium flow; Ice; Interfacial free energy; 10973. SP305-2.
- Perturbations; Stability; Surface tension; Water; Cylinder; Helium flow; Ice; Morphology; 10974. SP305-2.
- Perturbed angular correlation; Cu-Ni-Fe alloys; Hyperfine fields; Mössbauer effect; 13033. SP305-4.
- Perturbed angular correlation; Magnetic materials; Mössbauer effect; Nuclear magnetic resonance; Nuclear magnetism; Nuclear specific heat; 10836. SP305-1.
- Perturbed angular correlation, Mössbauer effect; Stainless steel; Hyperfine fields; 13494. SP305-5.
- Peru; Technical aid; Adobe; Cane; Earthquake; Housing; SP444, pp. VI-16-VI-24 (Apr. 1976). SP305-8.
- Perylene; Perylenequinones; Photo-oxidation products of perylene; Polycyclic aromatic hydrocarbons; Thin-layer chromatograms; Ultraviolet; Visible absorption spectra; J.72A No. 1, 39-47 (1968). SP305-1.
- Perylenequinones; Photo-oxidation products of perylene; Polycyclic aromatic hydrocarbons; Thin-layer chromatograms; Ultraviolet; Visible absorption spectra; J.72A No. 1, 39-47 (1968). SP305-1.
- Pesticide residue analysis; Agricultural pollution; Agricultural products analysis; Agricultural science; Amino acid analysis; Biomedical research; Clinical chemistry; Diagnostic chemistry; Food analysis; SP351, pp. 161-243. SP305-4.

sticides; Radionuclides; Sample handling; Sampling; Trace elements; Chemical analysis; Environmental samples; Long-term storage; Microbiologicals; Organics; *TN929. SP305-8.*

atch equation; Thermal expansion anisotropy; Strength; Surface stress; Grain size; Griffith equation; *13211. SP305-5.*

ri Nets; Probability; Evaluation; Graphs; Measurement; Networks; Performance; *SP406*, pp. 127-130. **SP305-7.**

rography; Alloy; Casting; Dental; Investment; *13351. SP305-5.*

rography; Photomicrography; Scanning electron microprobe; X-ray microscopy; Color photography; Metallography; *J73A No. 2, 113-123 (1969). SP305-1.*

rography; Pineal; Apatite; Calcospherulites; Calculi; *14835. SP305-7.*

rography; Pyroxene; Rocks; Apollo 12; Crystallization; Mineralogy; Moon; *14641. SP305-6.*

rography; Rocks; Apollo 11; Electron probe analysis; Mineralogy; Moon; *11958. SP305-3.*

rography; Specimen preparation; X-ray analysis; Electron probes; Metallography; Microanalysis; *10617. SP305-1.*

roleum; Correlation; Economic; Energy; Imports; International; *SP403*, pp. 21-41 (June 1976). **SP305-8.**

roleum; Physical properties; Standard reference materials; Coal; Energy; Fuel; Graphite; Hydrocarbons; Metering; Methane; Natural gas; *SP434. SP305-8.*

roleum; Plankton; Sediments; Total mercury; Water; Chesapeake Bay; Elemental sulfur; Flameless atomic absorption; *5874. SP305-8.*

roleum; Quantitation; Gas chromatography; Liquid chromatography; Oil spill; *16423. SP305-8.*

roleum; Resources; Standards; Steel; Thermal; Thermodynamics; Automobile; Break-even analysis; Conservation; Cooling; Economics; Energy; Environment; Fuel; Heating; Imports; Industry; Management; Manufacturing; Paper; *SP403. SP305-8.*

roleum; Water pollution; Gas chromatography-mass spectrometry; Hydrocarbons; *16344. SP305-8.*

roleum analysis; Trace analysis; Baseline studies; Gas chromatography; Gas chromatography-mass spectrometry; Hydrocarbons; Liquid chromatography; *TN889. SP305-8.*

roleum hydrocarbon measurement; Sampling methods; World Meteorological Organization (WMO); Analytical methods; Data reporting procedures; Intergovernmental Oceanographic Commission (IOC); Marine pollution (petroleum) monitoring; *SP409. SP305-6.*

roleum problems; Central plant system; Coal gasification; Heat pump system; Heat recovery and conservation system; Nuclear fuel; On-site power generation system; *B5566*, pp. 8. **SP305-7.**

roleum products; Scales; Survey; Temperature compensation; Uniformity; Weights and measures; Digital indicators; Trained weight; Laws and regulations; Metrication; Metric conversion; Net weight; Package control; *SP407. SP305-7.*

roleum products, containers for; Plastic containers for petroleum products; Containers for petroleum products; *PP561-74. SP305-7.*

y patents; Satellite research centers; Advisers to inventors; Preferred examinations; Innovation; Invention; Mechanized searching; Patent litigation; Patent Office; Patent system form; *SP388*, pp. 111-115. **SP305-6.**

Pseudorotation; Raman; Vibration; High amplitude; Inter-l rotation; *15370. SP305-7.*

Accelerated aging; Acidity; Aging; Alkaline filler; Aqueous acidification; Decacidification; Degradation; Laboratory information; Non-aqueous decacidification; *11566. SP305-2.*

Acid-base behavior; Acidity functions; Nonaqueous media; *56. SP305-1.*

Acidity; Hydrogen ions; *9559. SP305-1.*

PH\*; PH concept; Standards for acidity; Acidity scales; Deuterium oxide; Nonaqueous media; *PD; PH; 10506. SP305-1.*

PH; Piperazine phosphate; Buffer solutions; *10364. SP305-1.*

PH; PK; Thermodynamics; Acidity; Bis-tris; 2,2-bis(hydroxymethyl)-2,2',2''-nitrioltriethanol; Buffer solutions; Dissociation constant; Ionization constant; *11602. SP305-2.*

PH; Polarization measurements; Redox-potential; Soil corrosivity; Soil resistivity; Biological activity; Chemical tests; Electrochemical tests; *14310. SP305-6.*

PH; Porcelain enamel; Relative humidity; Weather resistance; Acid resistance; Color; Gloss; *B5550. SP305-6.*

PH; Potassium chloride; Sodium chloride; Standards; Activity standards; Clinical pH; Electrodes; Ion-selective electrodes; *12695. SP305-4.*

PH; Pyrolysis; Thermal stability; Thermogravimetric analysis; Wood pulp; Aluminum; Calcium; Carboxylic acid; Cellulose; Differential thermal analysis; Hemicellulose; Ion exchange; *13109. SP305-5.*

PH; Records; Reflectance; Specifications; Stability; Wet breaking load; Accelerated aging; Dry breaking load; Paper; *14605. SP305-6.*

PH; Reflectance; Stability; Storage; Tear strength; Testing; Aging; Alkalinity; Burst strength; Degradation; Differential thermal analysis; Durability; Manifold papers; Loads; *12834. SP305-4.*

PH; Repassivation kinetics; Stainless steel; Stress corrosion cracking; Titanium alloys; Chloride; Crevice corrosion; Dissolved oxygen; Ellipsometry; Nitrates; *13769. SP305-5.*

PH; Standardization; Acidity; Glass electrode; Indicators; *12482. SP305-4.*

PH; Standardization; Acidity; Glass electrode; Indicators; *10731. SP305-1.*

PH; Standardization; Acidity; Glass electrode; Indicators; *11248. SP305-2.*

PH; Standards for pH; Acidity; Carbonate; Citrate; Emf; Hydrogen electrode; *J73A No. 1, 37-41 (1969). SP305-1.*

pH; Suspension; Acidity; Contact; Decantate; Electrode; Error; Extract; Paper; *NBSIR 75-915. SP305-8.*

PH; Thermodynamics; Acidity; Ion activity; Medium effect; Nonaqueous solvents; *11249. SP305-2.*

PH buffers; PH electrode; PH measurement; PH standards; Buffers; Buffer solutions; Glass electrode; PH; *SP260-53. SP305-7.*

PH concept; Standards for acidity; Acidity scales; Deuterium oxide; Nonaqueous media; *PD; PH; 10506. SP305-1.*

PH determination; PH instrumentation; Reference electrodes; Temperature effects; Glass electrodes; Industrial analysis; *9560. SP305-1.*

PH electrode; PH measurement; PH standards; Buffers; Buffer solutions; Glass electrode; PH; PH buffers; *SP260-53. SP305-7.*

PH instrumentation; Reference electrodes; Temperature effects; Glass electrodes; Industrial analysis; PH determination; *9560. SP305-1.*

PH measurement; Glass electrodes; Hydrogen electrodes; *9558. SP305-1.*

PH measurement; PH standards; Buffers; Buffer solutions; Glass electrode; PH; PH buffers; PH electrode; *SP260-53. SP305-7.*

PH measurement; Quinhydrone electrode; Antimony electrode; Bioelectrodes; Biological systems; Electrodes; Glass electrode; Membrane electrodes; *10311. SP305-1.*

PH measurement calomel electrode; Reference electrodes; Temperature coefficients of e.m.f.; Silver-silver chloride electrode; Glass electrode; Inner solutions; *11247. SP305-2.*

- PH measurements; Acidity; Analysis; Conductance measurements; Electrochemical analysis; Electrochemistry of solutions; Glass electrodes; Medium effects; *TN423*. SP305.
- PH measurements; Medium effects; Solvent effects; Acidity; Analysis; Conductance measurements; Electrochemical analysis; Electrochemistry of solutions; Ionic activity; Ion-selective electrodes; PD measurements; *TN453*. SP305-1.
- PH measurements; Medium effects; Solvent effects; Standard reference materials; Acidity; Analysis; Conductivity; Electrochemical analysis; Electrochemistry of solutions; Ionic activity; Ion-selective electrodes; PD measurements; *TN503*. SP305-1.
- PH measurements; Polarography; Potentiometry; Standard Reference Materials; Acidity; Coulometric analysis; Electrochemical analysis; Ionic activity; Ion-selective electrodes; *TN583*. SP305-5.
- PH measurements; Potentiometry; Standard reference materials; Acidity; Conductivity; Coulometric analysis; Electrochemical analysis; Ionic activity; Ion-selective electrodes; *TN543*. SP305-2.
- PH scale; Acids; Bases; Buffer capacity; 9557. SP305-1.
- PH scale; Amphiprotic and mixed solvent media; Deuterium oxide; 9561. SP305-1.
- PH standard; Physiologic pH; Tris(hydroxymethyl)aminomethane and tris pH buffer; Clinical pH standard; 12589. SP305-4.
- PH standards; Buffers; Buffer solutions; Glass electrode; PH; PH buffers; PH electrode; PH measurement; *SP260-53*. SP305-7.
- PH values of HF; Activities of HF; Equilibrium constant of HF dissociation; Ionic concentrations in HF; *J.74A No. 6*, 761-768 (1970). SP305-2.
- Phantoms; Phototiming; Radiographic examination; X-ray tube potential; Attenuation; Exposure; *SP456*, pp. 381-388 (Nov. 1976). SP305-8.
- Pharmacological data; Chemical data; Computers; Information retrieval; Information storage; Information systems; Parameter control; 11389. SP305-2.
- Pharmacology; Protein calorimetry; Polynucleotide calorimetry; Purity assay; Reaction coupling; Thermodynamics; Warfarin; Adenosinetriphosphate-thermodynamics; Chemical bond energy; Coiled helix thermopiles; Drug receptor complexing; Entropy; 13730. SP305-5.
- Pharmacy; Real-time hospital information system; Remote data input; Administration; Hospital data communications; Laboratory; Nursing station; 9500. SP305.
- Phase; Digital; Phasemeter; Logic circuit; Low frequency; Measurements; *J.71C3-257*, 227-238 (1967). SP305.
- Phase; Power; Pulsed quantities; Squids; Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM Metrology; Field strength; Impedance; Noise; *NBSIR 74-395*. SP305-7.
- Phase; Power; Pulsed quantities; Squids; Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM metrology; Field strength; Impedance; Laser parameters noise; Optical electronics; *NBSIR 75-818*. SP305-7.
- Phase; Power; Radiometry; Resonant cavity; Voltage; Waveform; Waveguide junction; Admittance; Antenna; Attenuator; Bolometer; Calorimetry; Horn; Impedance; Interferometry; Measuring system; *SP300, Volume 4*. SP305-2.
- Phase; Power; Voltage; Current; Directional coupler; Impedance; 14580. SP305-6.
- Phase; Precision; Antenna; Attenuation; Comparator; Current; 9536. SP305-1.
- Phase; Reflection coefficient; Attenuation; Automated; Bolometer mount efficiency; Measurements; Network analyzer; 16509. SP305-8.
- Phase; Swept frequency; Time delay spectrometry; Tissue Transmission; Velocity; Attenuation; *SP453*, pp. 81-95 (C 1976). SP305-8.
- Phase; Tracking; Atmospheric; Distance measurements; Ear-to-space microwave transmissions; Microwave transmission; *TN339*. SP305.
- Phase adjustment; Phase correction algorithm; Quadrature Computer program; Fourier transform NMR; Homonuclear lock; 15970. SP305-8.
- Phase angle; Capacitor; Cross capacitor; Dielectric films; L angle; 13330. SP305-5.
- Phase angle; Power; Ratio; Reflection coefficient; Reflector; Self-calibration; Six-ports; Vector voltmeter; Voltage; Admittance; Automated precision measurements; Correlation; Current; Impedance; Microwave circuit parameters; Microwave measurements; *TN673*. SP305-7.
- Phase angle; Ratio; Self-calibration; Six-port; Vector voltmeter; Voltage; Attenuation; Microwave; 15665. SP305-7.
- Phase angle; Ratio; Six-port junction; Vector voltmeter; Voltage; Attenuation; Automation; Detector; Insertion loss; Microwaves; 15649. SP305-7.
- Phase angle; R-C network; Shielded transformer; Toroidal core; Voltage divider; Voltage ratio; Calibration; Comparator; High permeability core; Inductive voltage divider; 10614. SP305-1.
- Phase angle; Reflection coefficient; Six-port coupler; Voltage; Admittance; Current; Directional coupler; Hybrid junction; Impedance; 14378. SP305-6.
- Phase angle; Resistance; Transformer-ratio-arm; Audio-frequency; Bridge; Four-terminal resistance; High current; Operational amplifier; 14877. SP305-7.
- Phase angle; Self-calibration; Seven-port junction; Vector voltmeter; Amplitude; Computer controlled; Diode detector; Microwave measurements; *NBSIR 76-844*. SP305-8.
- Phase angles; Power; Reflection coefficient; Six-port; Voltage; Admittance; Current; Impedance; 15800. SP305-8.
- Phase boundaries; Dislocations-elasticity; Dislocation pile-up; *SP317*, pp. 135-146. SP305-3.
- Phase boundary; Phase transition; Thermodynamic scale; Critical region; Equation of state; Liquid-gas transition; *J. No. 2*, 103-107 (1971). SP305-3.
- Phase boundary; Saturation density; Vapor pressure; Density; Liquids; Nitrogen; *P,V,T*; 12186. SP305-3.
- Phase change; Condensation coefficients; Data evaluation; Evaporation coefficients; *J. Phys. Chem. Ref. Data 1*, No. 135-146 (1972). SP305-6.
- Phase change; Critical supersaturation; Data evaluation; Homogeneous nucleation; *J. Phys. Chem. Ref. Data 1*, No. 119-133 (1972). SP305-6.
- Phase change; Resonance; Strontium titanate; Vacuum; Young's modulus; Internal friction; Lanthanum titanate; 9447. SP305.
- Phase changes; Rupture; Titanium alloy; Creep; Engineering design; High temperatures; *J.72C No. 2*, 167-174 (1970). SP305-1.
- Phase changes; Transport processes; Crystal; Crystal growth; Crystallization; Growth mechanisms; Morphological stability; Nucleation; 11918. SP305-3.
- Phase comparison; Television; Signal oscillator; Frequency calibrator; Frequency offset; NBS traceability; 15140. SP305-7.
- Phase comparison; Television; Crystal oscillator; Frequency calibration; Network-originated programs; NBS traceability; 15682. SP305-7.
- Phase comparison; Television receiver; Color subcarrier; Frequency calibration; Frequency comparator; Frequency measurements; Oscillator calibration; *U.S. Patent 3,958*. SP305-8.



se composition; Phase stability; Atomic ordering; A15 compounds; Intermetallic compounds; Nonstoichiometry; 15848. SP305-8.

se correction algorithm; Quadrature; Computer program; Fourier transform NMR; Homonuclear lock; Phase adjustment; 15970. SP305-8.

se delay; Precise time metrology; Subpicosecond time difference measurements; Time stability; Atomic clocks; Frequency measurements; Frequency stability; 15684. SP305-

se detection; Quantity gaging; Density; Instrumentation; Liquid level; 14171. SP305-6.

se diagram; Alloy; Metallurgy; 16312. SP305-8.

se diagram; Chromium alloys; Constitution diagram; Equilibrium diagram; Iridium alloys; 13622. SP305-5.

se diagram; Platinum; Alloys; Chromium; Constitution diagram; Equilibrium diagram; 13621. SP305-5.

se diagram; Platinum; Vanadium; Alloys; Constitution diagram; Equilibrium diagram; 13257. SP305-5.

se diagram; Polytetrafluoroethylene; Transitions; Triple point; Dilatometry; Enthalpy; Entropy; Helical molecule; Low pressure; 172A No. 5, 467-470 (1968). SP305-1.

se diagram; ReO<sub>3</sub>-type compounds; Nb<sub>2</sub>O<sub>5</sub>-P<sub>2</sub>O<sub>5</sub>; NbPO<sub>4</sub>; Nb<sub>2</sub>P<sub>2</sub>O<sub>7</sub>; Nb<sub>4</sub>P<sub>2</sub>O<sub>11</sub>; P<sub>2</sub>O<sub>5</sub>-Nb<sub>2</sub>O<sub>5</sub>; 11903. SP305-

se diagram; Rhodium; Solubility; Uranium; Intermetallic compounds; 172A No. 1, 11-17 (1968). SP305-1.

se diagram; Rhodium alloys; Chromium alloys; Constitution diagram; Equilibrium diagram; 13614. SP305-5.

se diagram; Ruthenium; Solubility; Uranium; Intermetallic compound; 172A No. 1, 1-10 (1968). SP305-1.

se diagram; Scandium oxide; Boric oxide; Liquid immiscibility; Oxide systems; 9476. SP305.

se diagram; Solubility; Uranium; Intermetallic compounds; Uranium; 172A No. 1, 19-25 (1968). SP305-1.

se diagram; TiFeH<sub>2</sub> alloys; Volume effects; Charge flow; Zener; Mössbauer; 16597. SP305-8.

se diagram; V<sub>2</sub>O<sub>3</sub>, Y<sub>2</sub>O<sub>3</sub>; Yttrium vanadate; 10190. SP305-

se diagram Cs<sub>2</sub>SO<sub>4</sub>-K<sub>2</sub>SO<sub>4</sub>; Polymorphism Cs<sub>2</sub>SO<sub>4</sub>-K<sub>2</sub>SO<sub>4</sub> solid solutions; Solid solutions; Cs<sub>2</sub>SO<sub>4</sub>; Density K<sub>2</sub>SO<sub>4</sub>-Cs<sub>2</sub>SO<sub>4</sub> solid solutions; 13973. SP305-6.

se diagrams; Crystal growth; Kinetics; Multicomponent systems; n-paraffins; Pair distributions; 171A4-457, 245-259 (1967). SP305.

se diagrams; Phase equilibria; Platinum group metals; Alloy phases; Constitution diagrams; Noble metals; NBSIR 73-415. SP305-7.

se diagrams; Phosphate pollution; Solubility; Calcium carbonates; Calcium phosphates; Hydroxyapatite; Limnetic phosphate; 13521. SP305-5.

se diagrams; Physicochemical mechanism; Solubility of enamel; Caries models; Dental caries; 14141. SP305-6.

se diagrams; Polymorphism; Critically evaluated data; Crystal structures; Elements; High pressure; Melting curves; Phys. Chem. Ref. Data 3, No. 3, 781-824 (1974). SP305-

se diagrams; Tire pressure; Air; Building codes; Computer codes; Energy; Fire; Helmets; Mobile homes; DIM/NBS 60, 12, 1-24 (1976). SP305-8.

se diagrams of metastable immiscibility; Spinodal; Structural interpretation of immiscibility; Super-duty silica brick; Glass cinematography; Immiscibility and courses of crystallization; Immiscibility and practical applications; Immiscibility and thermodynamics; 11902. SP305-3.

se equilibria; Alkali molybdates; Crystal growth; 13147. SP305-5.

se equilibria; Alkali seeds in MHD; Condensation of K<sub>2</sub>CO<sub>3</sub>; SO<sub>4</sub>; K<sub>2</sub>SO<sub>4</sub>-K<sub>2</sub>SO<sub>4</sub>; K<sub>2</sub>CO<sub>3</sub>; K<sub>2</sub>SO<sub>4</sub>; K<sub>2</sub>CO<sub>3</sub>-K<sub>2</sub>SO<sub>4</sub>; 14372. SP305-6.

Phase equilibria; BaO-Pt system; BaO-PtO<sub>2</sub> system; Dissociation; 14496. SP305-6.

Phase equilibria; Barium-titanium oxides; BaTiO<sub>3</sub>-TiO<sub>2</sub> system; Crystal structure; 14158. SP305-6.

Phase equilibria; Phase transitions; Critical data, transition metal oxides; Crystal structure transformations; Electronic properties; Magnetic properties; NSRDS-NBS49. SP305-6.

Phase equilibria; Platinum group metals; Alloy phases; Constitution diagrams; Noble metals; Phase diagrams; NBSIR 73-415. SP305-7.

Phase equilibria; Polymorphism; Tantalum pentoxide; Titanium dioxide; 172A No. 2, 175-186 (1968). SP305-1.

Phase equilibria; Predicted thermodynamic parameters; Gas solubility; Hard-sphere model; Liquefied gases; 11989. SP305-3.

Phase equilibria; Rare earth oxides; Boric oxide; Liquid immiscibility; 9887. SP305-1.

Phase equilibria; Review; Bibliography; Calorimetric measurements; Fluid mixtures; Joule-Thomson coefficients; 15671. SP305-7.

Phase equilibria; SrMnO<sub>3-x</sub>-Mn<sub>2</sub>O<sub>3</sub> system; SrMnO<sub>3-x</sub>; Nonstoichiometry; 13478. SP305-5.

Phase equilibria; Statistical thermodynamics; Supercritical component; Van der Waals/Percus and Yevick; Henry's constants; Liquid mixtures; Partition function; 11403. SP305-2.

Phase equilibria; Strontium chromates; Strontium-chromium oxide system; SrCrO<sub>4</sub>, Sr<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>; Chromium oxide; 173A No. 4, 431-442 (1969). SP305-1.

Phase equilibria; Strontium manganates; Tetravalent manganese; Trivalent manganese; Four-layer SrMnO<sub>3</sub>; Perovskites; 11764. SP305-2.

Phase equilibria; System; Tungsten trioxide; Crystal structure; Niobium pentoxide; 170A4-404, 281-303 (1966). SP305.

Phase equilibria; System LiTaO<sub>3</sub>-Ta<sub>2</sub>O<sub>5</sub>; System NaTaO<sub>3</sub>-Ta<sub>2</sub>O<sub>5</sub>; System KTaO<sub>3</sub>-Ta<sub>2</sub>O<sub>5</sub>; Alkali oxides; Crystal chemistry; Crystal growth; 13486. SP305-5.

Phase equilibria; System tantalum oxide-tantalum tungstate; Melting points; 12017. SP305-3.

Phase equilibria; Ternary system; Argon; Binary system; Excess Gibbs energy; Liquid-vapor; Methane; Nitrogen; 13205. SP305-5.

Phase equilibria; Tetravalent iron; Ferrates; Hexagonal barium ferrate; Perovskite; 173A No. 4, 425-430 (1969). SP305-1.

Phase equilibria; Transition-metal oxides; Alkaline earth oxides; Nonstoichiometry; Oxidation-reduction; 13186. SP305-5.

Phase equilibria; Transition-metal oxides; Ba/Co-oxide phases; Ba/Ni-oxide phases; Crystal structure; SP364, pp. 233-263. SP305-4.

Phase conventions; Racah algebra; Recoupling graphs; Recoupling transformations; Angular momentum theory; Matrix elements; 12642. SP305-4.

Phase decomposition; Phase separation; Sodium-borosilicate; Electron microscopy; Immiscible oxide; Nucleation and growth; 12840. SP305-4.

Phase diagram; P-V-T data; Iron; Lattice structure; Martensitic transformation; Molecular dynamics; 12426. SP305-4.

Phase diagram; Single crystals; CdGeP<sub>2</sub>; CdP<sub>2</sub>-Ge system; Ge; SP364, pp. 591-595. SP305-4.

Phase diagrams; Alloys; High precision; Lever rule; Nuclear magnetic resonance; 12434. SP305-4.

Phase equilibria; Solid-vapor; Cryogenic; Helium-krypton; Liquid-vapor; 12871. SP305-4.

Phase equilibria; System BaMnO<sub>4</sub>; Barium-manganese oxides; Crystal structures; Oxidation-reduction; 12468. SP305-4.

Phase equilibria; Transport properties; Vaporization; Viscosity; Diffusion; Electrical conductivity; Magnetohydrodynamics (MHD); 16321. SP305-8.

Phase equilibria, carbon disulfide, nitromethane; Water; Binary mixture; Coexistence curve; Critical phenomena; Density; Isobutyric acid; Magnetic densimeter; 16480. SP305-8.

- Phase equilibria (MHD); Vaporization (MHD); Viscosity (MHD); Coal slag; Electrical conductivity (MHD); Electrodes; Insulators; MHD; MHD materials; MHD materials testing; *NBSIR 74-543*. SP305-6.
- Phase equilibrium; Purification; Purity; Solid solution; Crystallization; Entrapment; Impurity; *1111*. SP305-2.
- Phase equilibrium; Slag; Vaporization; Viscosity; Electrical conductivity; MHD materials; *1510*. SP305-7.
- Phase equilibrium; Solid-vapor; Thermodynamic properties; Three-phase loci; Apparatus; Argon-methane data; Liquid-vapor; Low temperature; *1735*. SP305-2.
- Phase equilibrium; System  $AlCl_3-NaCl$ ; System  $NaCl-AlCl_3$ ; Immiscibility; *NaAlCl<sub>4</sub>*; *J.78A No. 4, 505-507 (1974)*. SP305-6.
- Phase equilibrium; Yttria-germania system; Germania-yttria system; Immiscibility; *14352*. SP305-6.
- Phase fluctuations; Power law noise processes; Spectral density; Spectrum analysis; Fractional frequency fluctuations; Frequency stability; *TN679*. SP305-8.
- Phase fluctuations; Semiclassical; Correlations; Laser; Maser; *11450*. SP305-2.
- Phase fluctuations of VLF and LF transmissions; Statistical analysis; Flicker noise; *14273*. SP305-6.
- Phase locked laser; Fast linewidth; Frequency noise; HCN laser; Infrared frequency synthesis; Laser frequency measurements; Laser linewidth; Laser stabilization; *TN620*. SP305-5.
- Phase locked laser; Frequency noise; HCN laser; Infrared frequency synthesis; Josephson junction; HCN frequency measurements; Laser linewidth; Laser stabilization; *14052*. SP305-6.
- Phase locked laser; HCN laser; Infrared frequency synthesis; Laser frequency measurements; Laser stabilization; Laser metrology; *13542*. SP305-5.
- Phase locked loop; Tracking; Ultrasonic; Interferometer; *15040*. SP305-7.
- Phase mapping; Quality control; Scanning; Television systems; Variability; Variance (statistics); Aggregates; Anisotropy; Automation; Computers; Mechanical properties; Microscopes; Microstructure; Particle distribution; *12935*. SP305-4.
- Phase matching; Second harmonic generation; Bulk damage; Lithium iodate; *SP387*, pp. 84-90. SP305-5.
- Phase measurement; Quantitative analysis; Retained austenite; X-ray diffraction; Austenite; Computer; Ferrite; *TN709*. SP305-4.
- Phase measurements; Progress in radio measurements; Thermal noise measurements; Voltage measurements; Attenuation measurements; Field strength measurements; High frequency measurements; Impedance measurements; *10182*. SP305-1.
- Phase noise; Primary frequency standards; Ramsey cavity; Accuracy; Accuracy evaluations; Cavity phase shift; Cesium beam tube; Frequency stability; Interaction length; *15683*. SP305-7.
- Phase noise; Quartz crystal oscillator; Ramsey cavity; Slave oscillator; Atomic frequency standard; Cesium beam; Figure of merit; Frequency accuracy; Frequency multiplier; Frequency precision; NBS-III; NBS-5; *11959*. SP305-3.
- Phase noise; Radio frequency power spectral density; Script  $\mathcal{L}(f)$ ; Script  $\mathcal{M}(f)$ ; Script  $\mathcal{N}$ ; Sidebands; Signal stability; Spectral density; Amplitude fluctuations; Cross-spectral density; Frequency domain; Frequency noise; Modulation noise; *14028*. SP305-6.
- Phase noise; Radio propagation; Time comparison; USNO; VLF propagation; WWVL; Effect of mass on frequency; Flicker noise; NBS; Noise correlation; NSS; Optimum filter; *11241*. SP305-2.
- Phase noise; RF amplifiers; Transistor noise; Atomic frequency standards; Capacitor noise; Cesium beam; Flicker phase noise; Frequency multipliers; Frequency standards; Hydrogen maser; Negative feedback; Noise; *10968*. SP305-2.
- Phase noise; Spectral density; Terminology standards; Allan variance; Frequency stability measurements; Measurement system description; *NBSIR 74-396*. SP305-6.
- Phase noise; Squarewave servo; Indirect synthesis; *15*. SP305-7.
- Phase noise; Stationary models; Flicker noise; Frequency stability; Oscillators; *TN683*. SP305-8.
- Phase noise; Unified standard; Allan variance; Base units; linewidth; Frequency multiplication; Infrared frequency metrology; Josephson effect; Linewidth; Methane frequency standard; *13995*. SP305-6.
- Phase noise measurement system; Spectral density of phase noise; Global Positioning System; Phase-locked loop; *NBSIR 846*. SP305-8.
- Phase noise spectral density; Quartz crystal oscillator; Time domain stability; Allan variance; Flicker of phase noise; Frequency stability; Oscillator noise models; *12383*. SP305-4.
- Phase noise, spectral density; Stability definitions; Terminology standards; Allan variance; Frequency stability measurement system description; *TN632*. SP305-5.
- Phase relations;  $CaO-Fe_2O_3$  compounds;  $CaO-Fe_2O_3-Fe$  system; Association; Equilibrium; *12610*. SP305-4.
- Phase relations;  $CaO-Pt$  system;  $CaO-Pt_2O_3$  compounds; Association; Equilibrium; *12965*. SP305-4.
- Phase relations; Chalcocite;  $Cu_2S$ ; Digenite; Djurleite; Stoichiometry; *SP364*, pp. 703-712. SP305-4.
- Phase relations; Compounds; Dissociation;  $Na_2O-Fe_2O_3$  system; *14012*. SP305-6.
- Phase relations; Dissociation; Equilibrium;  $Ln_2O_3-pdO$  compounds;  $Ln_2O_3-PdO$  systems; *J.72A No. 1, 27-37 (1972)*. SP305-1.
- Phase relations; Platinum metal oxides; Solid solution;  $Co-Fe_2O_3$  system; Dissociation; *9480*. SP305.
- Phase relations;  $Ru-Fe_2O_3$  system;  $RuO_2-Fe_2O_3$  system; Solid solution; Dissociation; Oxidation; *J.73A No. 2, 213-219 (1973)*. SP305-1.
- Phase relations;  $SnO_2-Fe_2O_3$  system; Solid solution;  $TiO_2-Fe_2O_3$  system; Dissociation; *J.71A2-441, 119-123 (1967)*. SP305.
- Phase relations;  $SrO-Fe_2O_3$  compounds;  $SrO-Fe_2O_3-Fe$  system; Association; Equilibrium; *J.75A No. 3, 185-196 (1971)*. SP305-3.
- Phase relations; Vapor pressure; Vaporization equilibrium;  $K_2SO_4-LaCrO_3$  system;  $K_2SO_4-MgO$  system; *15505*. SP305.
- Phase relationships; Pressure; Temperature; Niobium pentoxide; *J.77A No. 6, 705-711 (1973)*. SP305-5.
- Phase retardation plates; Polarization attenuators; Polarizers; Spectrophotometry; Transmittance standards; Accuracy; *12660*. SP305-4.
- Phase sensitive; RF null detector; Detector; *13420*. SP305.
- Phase sensitive detection; Speed of sound; Ultrasonic interferometer; Ultrasonics; *12322*. SP305-3.
- Phase sensitive detector; Gaussian; Lineshapes; Lorenzian; *15702*. SP305-7.
- Phase separation; Borosilicate glass; Chemical durability; *15212*. SP305-7.
- Phase separation; Shear ultrasonics; Structural relaxation; Cal-point effect; Immiscible glasses; Longitudinal ultrasonics; *12754*. SP305-4.
- Phase separation; Sodium-borosilicate; Electron microscopy; Immiscible oxide; Nucleation and growth; Phase decomposition; *12840*. SP305-4.
- Phase separation; Thermodynamics of solutions; Glass; Immiscibility; *J.78A No. 1, 53-59 (1974)*. SP305-6.
- Phase separation; Viscosity; Glass; Microstructure; *TN*. SP305-5.
- Phase separation; Viscosity; Glass; Microstructure; *1*. SP305-6.
- Phase separation; Viscosity; Microstructure; *14480*. SP305.

separations; Binary mixtures; Coexistence curves; Critical mixtures; Critical opalescence; Light scattering; 10271. SP305-1.

shift; Polarized light; Reflection; Thin films; Transmission; Interferometry; Kösters prism; Optical films; 14495. SP305-6.

shift; Power; Progress; Reflection coefficient; Review; Standards; Survey; Antenna gain; Attenuation; Field strength; Impedance; Measurement; Microwave; Noise; 9565. SP305-6.

shift; Reformulation of the Anderson model; Adsorbates metal surfaces; Density of states; Impurity wave function; Genetic impurities; 14017. SP305-6.

shift; Silicon; Density standard; NBSIR 75-768. SP305-6.

shift; Standards; UHF; Uncertainties; Measurements; Microwave; 9697. SP305-1.

shift; Z-dependence; Atomic number; Central potential; Electron scattering; 11392. SP305-2.

shift analysis; Transition radius; Correction factors; Coulomb effects; Electro-excitation; Low momentum transfer; Genetic transitions; Model-independent evaluation; 10910. SP305-2.

shifter; Precision; Synchronous detector; Attenuator; Differential flame emission; 11429. SP305-2.

shifter; Universal time; Frequency translator; 9152. SP305-2.

shift-measurement; Power measurement; Reflectometers; Waveguide joints; Waveguide theory; Attenuation definitions; Evaluation measurement; Barretter mount efficiency; Coaxial connectors; Impedance measurement; Microwave network theory; Monogr. 137. SP305-5.

shifts; Photoacoustic; Surface absorption coefficients; Intransparent materials; Bulk absorption coefficients; Fourier altitudes; Gas pressure; Heat transfer; 16558. SP305-8.

shifts; Quantum mechanics; Scattering theory; Semiclassical approximation; Electron exchange; Electron scattering; Foreign atoms; Indistinguishable particles; 16122. SP305-8.

shifts; Soft x-ray; Transition probability; Density of states; Exciton; Many body effects; SP323, pp. 253-258. SP305-4.

shifts; Soft x-ray; Transition probability; Density of states; Exciton; Many body effects; J.74A No. 2, 267-272. SP305-2.

shifts; Tritons; Alpha particles; Cross sections; Deuterons; Neutrons; SP425, pp. 701-703. SP305-7.

slip; Weak superconductivity; Josephson effect; 15646. SP305-7.

spectroscopy; Vibrational energy transfer; Infrared laser; Laser chemistry; Mass spectrometry; Molecular beam; 14397. SP305-6.

stability;  $A^+B^{+}O_3$  compounds; Ferroelectricity; Perovskites; SP364, pp. 287-293. SP305-4.

stability; Atomic ordering; A15 compounds; Intermetallic compounds; Nonstoichiometry; Phase composition; 15848. SP305-8.

stability; Sigma phases; Transition metals; A15-type phase; Atomic packing; Beta-tungsten phase; Electronic structure; Order-disorder transformation; Ordering of atoms; 98. SP305-1.

stabilization; Pseudopotential; Zintl phases; Chemical bonding; 13213. SP305-5.

studies; Phase transitions; Power; Premelting correction; Theory; Smoothing of observations; Thermodynamic properties; Thermodynamics; Thermometry; Time; Vaporization effect; Adiabatic calorimetry; Calorimeters; Calorimetry; Monogr. 11189. SP305-2.

studies; Potential functions; Special functions; Thermodynamics; Transport properties; Argon; Kinetic theory; 107. SP305-1.

Phase transformation; Polymorphism; Crystal chemistry; Kinetics; Lithium arsenate; Lithium phosphates; Lithium vanadate; SP364, pp. 457-469. SP305-4.

Phase transformation; Polymorphs; DSC; DTA; High temperature x-ray;  $K_2CO_3$ ; 13524. SP305-5.

Phase transformation; Spectroscopic data; Thermodynamic data; X-ray diffraction data; Binary halides; Crystal structure transformation; Electronic data; NSRDS-NBS41. SP305-4.

Phase transformation; Thermodynamics; Thermophysical properties; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Iron; Melting point; J.78A No. 1, 1-4 (1974). SP305-6.

Phase transformation; Thermodynamics; High-speed measurement; High temperature; Iron; 15623. SP305-7.

Phase transformation; Twinning; Crystallography; Gold-cadmium alloy; Martensite; 12006. SP305-3.

Phase transformation; Vanadium hydride; Vibration spectra; Crystal structure; Frequency distribution; Hydrogen positions; Hydrogen vibration; Metal hydride; Neutron inelastic scattering; 10598. SP305-1.

Phase transformation; X-ray diffraction data; Carbonates; Crystal structure transformation; Nitrates; Nitrites; NSRDS-NBS53. SP305-7.

Phase transformations; Cryogenics; Crystal structure; Martensite; Metals; 10010. SP305-1.

Phase transformations; Crystallography; Gold-cadmium alloys; Martensite; 12899. SP305-4.

Phase transformations; Phosphates; Sulfates; Thermodynamic data; X-ray diffraction data; Chromates; Crystal structure; Crystal structure transformations; Perchlorates; NSRDS-NBS56. SP305-7.

Phase transformations; Plastic deformation; Atomic ordering; Crystal structure; 11178. SP305-2.

Phase transformations as fixed points; Pressure coefficients of thermocouples; Pressure scale; Equation of state; 11052. SP305-2.

Phase transformations/solid state; X-ray-diffraction crystallography; Crystallography; Crystal structure/alloys; Gold-cadmium alloys; 13036. SP305-4.

Phase transformations/solid-state; Twinning; Crystal imperfections; Electron diffraction crystallography; Iron alloys; Nickel alloys; 12913. SP305-4.

Phase transition; Bogoliubov transformation; Bosons; Helium; Lambda point; Lattice model; 15870. SP305-8.

Phase transition; Ferroelectrics;  $H_2O$ ; Ice; Inelastic scattering;  $K_4Fe(CN)_6 \cdot 3H_2O$ ; Librations; Low-frequency modes; Neutron cross-sections; Neutron spectra; 9504. SP305.

Phase transition; Hydrogen; 13552. SP305-5.

Phase transition; Plastic crystal; Raman; And rotational diffusion; Band shape analysis; Diffusion models; Infrared; Jump diffusion; Molecular reorientation; Neopentane; 13773. SP305-5.

Phase transition; Polymer; Chain-folded crystal; Partition function; 14404. SP305-6.

Phase transition; Polymer crystallization; Zwanig-Lauritzen model; Critical indices; Critical phenomena; 11685. SP305-2.

Phase transition; Polymer crystals; Chain-folding; Equilibrium statistical mechanics; Partition function; 10811. SP305-1.

Phase transition; Potassium borohydride; Sodium borohydride; Spin lattice relaxation time; Lithium borohydride; Nuclear magnetic relaxation; 11167. SP305-2.

Phase transition; Precipitation kinetics; Aggregation; Collagen; Fibrils; Hydrophobic bonding; Native-type fibril formation; 14245. SP305-6.

Phase transition; Pretransition phenomena; Specific heat; Thermodynamic properties; Aluminum trifluoride; Drop calorimetry; enthalpy measurements; High-temperature calorimetry; J.71A3-450, 185-193 (1967). SP305.

- Phase transition; Purity; Thermodynamics; Adiabatic calorimetry; Calorimeter; Calorimetry; Cryoscopy; Melting; 11188. SP305-2.
- Phase transition; Quasielastic; Residence time; Sodium hydrosulfide; Cesium hydrosulfide; Hydrosulfides; Ion reorientation; Libration; Neutron scattering; 13700. SP305-5.
- Phase transition; Quasielastic scattering; Vanadium hydride; Activation energy; Hydrogen diffusion; Lattice sites; Neutron scattering; 13163. SP305-5.
- Phase transition; Quasielastic scattering; Alkali hydrosulfides; Hydrosulfide ion; Ion reorientation; Neutron scattering; 13698. SP305-5.
- Phase transition; Quasi-elastic scattering; Hydrosulfides; Libration; Neutron scattering; 15506. SP305-7.
- Phase transition; Reorientation; Residence time; Rubidium hydrosulfide; Vibration amplitude; Neutron scattering; Orientational disorder; 13930. SP305-6.
- Phase transition; Reorientation; Sodium hydrosulfide; Crystal structure; Ion orientation; Libration; Neutron diffraction; 12559. SP305-4.
- Phase transition; Rotational diffusion; Rotator phase; N-Alkanes; N-nonadecane; Neutron inelastic scattering; 13488. SP305-5.
- Phase transition; Semiconductor; SrTiO<sub>3</sub>; Superconductor; Electronic band structure; Heat capacity; Mixed titanate; 10330. SP305-1.
- Phase transition; Shape effects; Susceptibility; Antiferromagnet; Dipolar interactions; DyPO<sub>4</sub>; Heat capacity; Magnetization; Metamagnet; 12541. SP305-4.
- Phase transition; Stochastic matrix; Theta point; Chain partition function; Monte-Carlo computations; Near-neighbor interactions; 11908. SP305-3.
- Phase transition; Strontium titanate; Thermometer; Capacitor; Depolarization; Dielectric; Dilution refrigerator; Glass ceramic; 12368. SP305-3.
- Phase transition; Temperature dependence; X-ray diffraction; Defects; *n*-paraffins; 174A No. 2, 203-214 (1970). SP305-2.
- Phase transition; Thallous azide; Thermal expansion; Bond method; 13904. SP305-6.
- Phase transition; Thermal analysis; Dipole ordering; DTA; NMR; Order-disorder; 13009. SP305-4.
- Phase transition; Thermodynamic scaling; Critical region; Equation of state; Liquid-gas transition; Phase boundary; 175A No. 2, 103-107 (1971). SP305-3.
- Phase transition; Torsional oscillation;  $\lambda$ -point methyl group; Barrier to rotation; Crystal; Crystal structure; Hexamethylbenzene; Hindered rotation; 11743. SP305-2.
- Phase transition; Torsional oscillation;  $\lambda$ -point; Barrier to rotation; Crystal; Crystal structure; Hexamethylbenzene; Hindered rotation; 16137. SP305-8.
- Phase transition; Torsional vibrations; Vibration spectra; Ammonium salt; Barrier to rotation; Ferroelectric; Neutron scattering; 10043. SP305-1.
- Phase transition; Weiss model; Density of states; Ising model; Onsager model; Partition function; SP323, pp. 381-384. SP305-4.
- Phase transitions; Critical data, transition metal oxides; Crystal structure transformations; Electronic properties; Magnetic properties; Phase equilibria; NSRDS-NBS49. SP305-6.
- Phase transitions; Critical point; Gravity effects; TN925. SP305-8.
- Phase transitions; CsPbCl<sub>3</sub>; EPR of Gd<sup>3+</sup>; 13014. SP305-4.
- Phase transitions; Equation of state; Freezing; Freezing criteria; Melting; Molecular correlation functions; 14728. SP305-7.
- Phase transitions; Ferroelectric molybdates of rare earths; Lattice parameters; SP364, pp. 437-443. SP305-4.
- Phase transitions; Growth of droplets; Kinetic theory of gases; Liquid-vapor phase transitions; Mass transport; Nucleation theory; 13105. SP305-5.
- Phase transitions; Potassium chloride; Tellurium; Ultrasonic Bulk modulus; Equation of state; High pressure; 1 SP305-2.
- Phase transitions; Potassium chloride; Ultrasonics; Bulk modulus; Equation of state; High pressure; 16029. SP305-8.
- Phase transitions; Potential barrier; Rotation; Thiourea; Ferroelectric; Libration; Molecular vibrations; Neutron scattering; 10425. SP305-1.
- Phase transitions; Potentials of average force; Critical phenomena; Entropy-energy-volume; Fluctuations; Fundamental maximum principle; Generalized Ornstein-Zernike equation; Molecular distribution functions; Ornstein-Zernike theory; 10966. SP305-2.
- Phase transitions; Power; Premelting correction; Premelting of observations; Thermodynamic properties; Thermodynamics; Thermometry; Time; Vaporization correction; Adiabatic calorimetry; Calorimeters; Calorimetry; Cryostats; 11189. SP305-2.
- Phase transitions; Pyroelectricity; Spontaneous polarization; Barium titanate; Ceramics; Ferroelectricity; 11593. SP305-3.
- Phase transitions; Refractory metals; Thermophysical properties; High-speed methods; High temperature; 13469. SP305-5.
- Phase transitions; Specific heat; Static scaling; Critical phenomena; Critical phenomena; Data analysis; Magnetic scaling; Nonlinear least-squares; J. Phys. Chem. Ref. Data 2, No. 11-24 (1973). SP305-6.
- Phase transitions; Structural relaxation; Transport phenomena; Viscous flow; Critical point theories; Immiscibility; 175A No. 3, 175-184 (1971). SP305-3.
- Phase transitions; Ternary liquid mixtures; Thermodynamic properties; Binary liquid mixtures; Critical opalescence; Critical phenomena; Critical point; Critical region; Equilibrium critical phenomena; Gases; Liquids; Liquid-vapor systems; SP305-2.
- Phase transitions; Thermal conductivity; Transport properties; Viscosity; Binary liquids; Critical phenomena; Dense fluids; 13134. SP305-5.
- Phase transitions; Thermodynamic information; Electronic properties of states; Iron; SP323, pp. 741-752. SP305-4.
- Phase transitions; Theta alumina; Alpha alumina; Amorphous alumina; Delta alumina; Gamma alumina; Intermediate aluminas; Metastable aluminas; 10298. SP305-1.
- Phase transitions; Torsional vibrations; Barrier to rotation; Cosine potential; Globular molecules; Hindered rotation; Methyl group; Molecular reorientation; Neutron scattering; Neutron spectra; 10039. SP305-1.
- Phase transitions; X-ray scattering; Dielectric loss; *n*-paraffins; 178A No. 2, 131-141 (1974). SP305-6.
- Phase transitions in biopolymers; Self-assembly; Structural transformations; Surface adsorption; Biopolymers; Helix transition; 15721. SP305-8.
- Phase velocity; VLF; Ionosphere; 9826. SP305-1.
- Phase vs. time;  $\sigma$  vs.  $\tau$ ; 19 kHz pilot; Frequency modulation index; Multipath; Path delay; 16492. SP305-3.
- Phase-angle; Standard; Audio frequency; Thermal voltage divider; Inductive voltage divider; Measurement; T SP305.
- Phase-change calorimeter; Plutonium dioxide; Plutonium isotopes; Radionuclide calorimetry; Radionuclide calorimetry; Standards; Bunsen ice calorimeter; Calorimetric standards; Calorimetry; Heat standards; 16443. SP305-8.
- Phase-contrast; Transmission; Ultrasound; Velocity; Attenuation; Breast tissue; Broadband; High resolution; Imaging; Large aperture; Pathology; Pellicle; SP453, pp. 12-13 (Oct. 1976). SP305-8.
- Phased arrays; Antennas; Near-field measurements; SP305-6.
- Phased arrays; Antennas; Near-field measurements; NBS SP305-6.



arrays; Antennas; Near-field measurements; 14994. SP305-7.

se-diagram; Vanadium; Alloys; Aluminum; Diffusion; High-pressure; 11832. SP305-3.

se-equilibria; Krypton; Melting line; Neon; 13232. SP305-5.

se-equilibrium; Solid-vapor; Experimental; Helium-methane; Low temperature; 9230. SP305.

se-equilibrium; Solubility of helium in liquid methane; Helium; Helium-methane binary system; Liquid-vapor equilibrium; Low-temperature; Methane; 10174. SP305-1.

se-field division; Silicon; Solubilities; Ternary system; X-ray investigations; Binary system; Boron; Carbon; Chemical analysis; Melting-point determination; Metallography; SP364, pp. 5-513. SP305-4.

se-lock detection system; Shear relaxation; Ultrasonic interferometer; High temperature ultrasonic interferometer; Lock-in amplifier system; Measurements in molten glasses; 10710. SP305-1.

se-locked loop; Phase noise measurement system; Spectral density of phase; Global Positioning System; NBSIR 76-846. SP305-8.

se-meter; Logic circuit; Low frequency; Measurements; Phase; Digital; J.71C3-257, 227-238 (1967). SP305.

se-sensitive detector; Power-factor; Quadrature; Three-voltmeter method; Wattmeter; Opamp; 12848. SP305-4.

se-sensitive detector; Power-factor; Quadrature; Three-voltmeter method; Wattmeter; 13047. SP305-4.

se-sensitive detector; Signal extraction ratio; Operational amplifier; Op amp; Operational rectifier; 12412. SP305-4.

se-separation; Viscosity; Borosilicate; Environmental-relaxation model; Glass; Microstructure; 14410. SP305-6.

se-separation; Viscosity; Viscosity-drift; Glass; Immiscibility; 1238. SP305-3.

se-NIX; FBR development; Integral experiments; Nuclear data; SP425, pp. 51-61. SP305-7.

se-nickel-aldehyde; Stainless steels; Superconducting machinery; Thermal conductivity; Titanium alloys; Aluminum alloys; Composites; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Cryogenic temperatures; Imaging stress; Mechanical properties; NBSIR 76-848. SP305-8.

se-nitric carbon; Silicone rubber; Ablation; Aerodynamic wear; Carbon; Char; Cork; Epoxy-novolac; Erosion; SP336, pp. 837-851. SP305-3.

se-nitro; Thermodynamics; Dissociation; Electrolytes; Ethanol; *m*-nitrophenol; Nonaqueous solvents; J.71A1-430, 2 (1967). SP305.

se-nomological coefficients; Polycomponent systems; Dipolar relations; Diffusion; J.74A No. 1, 55-63 (1970). SP305-2.

se-*n*-naphthylamine; Physical forces; Reinforcement; Reversible; Rubber vulcanizates; Stiffening; Anisotropic; *B*-naphthyl group; Glass transition temperature; 9896. SP305-5.

se-nitro diethyl Nile Blue; *p*-tolyl di-*n*-propyl Nile Blue base; Relative strengths of indicator dyes; Solvatochromism; Acid-base indicators; Acidity in nonaqueous solvents; Aprotic solvents; Methyl Yellow; Nile Blue A and derivatives; 9660. SP305-1.

se-nitro ethers; Polymerizations; Fluorine-containing monomers; Olefins; Fluoroolefins; Fluoro monomers; Propylenes; Fluorovinyl; Free radical; Gamma rays; High pressures; Ionic catalysts; Monomers; Perfluorostyrene; 18. SP305-1.

se-nitro compounds; Absorption spectra; Infrared spectra; *ortho*-, *bis*-, and *tris*-(phenylhydrazones); J.71A4-459, 277-281 (1967). SP305.

se-nitro compounds; Phenylhydrazine; Action; Cyclohexanone; Ene-hydrazine; Enol; Periodic acid; 11535. SP305-5.

se-nitro-beta-naphthylamine; Stiffening; Vulcanization; X-ray diffraction; Anisotropic; Beta-naphthyl group; Block polymers; Bonds; Crystallization; Elastomers; Expansivity; Forces; 11144. SP305-2.

se-nitrohydrazine; Action; Cyclohexanone; Ene-hydrazine; Enol; Periodic acid; Phenylazo compounds; 11535. SP305-2.

se-nitrohydrazine; Cyclohexane-1,3-dione; Formation; Free-radical; Ionic; Mechanism; 13204. SP305-5.

se-nitrohydrazine; Cyclohexane-1,3-dione; Formation; Free-radical; Ionic; Mechanism; 13679. SP305-5.

se-nitrohydrazines; Alkaline solution; Chemical changes; Electron spin resonance; Free radical mechanism; Nitroxide radical; Osazones; 14065. SP305-6.

se-nitrohydrazono-phenylazo tautomerism; Cyclopentitols and related substances; Unsaturated alditols; Infrared spectra of acylamido derivatives; Carbohydrate reference materials; Metallo-organic standard reference materials; Air-pollution studies; TN405. SP305.

se-nitrohydrazono-phenylazo tautomerism; Quebrachitol, levo-inositol; Standard reference materials; 1,2-*o*-isopropylidene- $\beta$ -L-idofuranose; 2,3-*o*-isopropylidene- $\beta$ -D-threo-pentulofuranose; Air pollution studies; Characterization of chemical structures; TN427. SP305.

se-nitrohydrazono-phenylazo tautomerism; Pyridazine derivatives; *xylo*-trihydroxycyclohexenediolic acid preparation of bis-(phenylhydrazono) of-; *xylo*-4,5,6-trihydroxy-2-oxo-1,3-bis-(phenylhydrazono)cyclohexane; 9803. SP305-1.

se-nitrohydrazono-phenylazo tautomerism; Phenylsazones; Tautomerism; Ultraviolet spectra; Diphenylformazans; Enolic phenylhydrazono-phenylazo structure; Infrared spectra; Molecular structure; Nuclear magnetic resonance; Oxo-bis(phenylhydrazono) compounds; 10286. SP305-1.

se-nitromercuroic acetate; Freeze-drying; Lyophilization; Mercury; Mercury loss; Methylmercury; Nuclear activation analysis; 13493. SP305-5.

se-nitromercuroic acetate; Volatilization; Bacteria; Elemental mercury; Flameless atomic absorption spectroscopy; Laser Raman spectroscopy; Nuclear magnetic resonance spectroscopy; 15897. SP305-8.

se-nitromercuroic acetate; Pseudomonas; Atomic absorption; Biodegradation; Mercury-resistant bacteria; Mercury transformations; 13708. SP305-5.

se-nitrosazone; Crude inosose; Enols; Formation; Inositol; Oxidation; 10940. SP305-2.

se-nitrosazones; Tautomerism; Ultraviolet spectra; Diphenylformazans; Enolic phenylhydrazono-phenylazo structure; Infrared spectra; Molecular structure; Nuclear magnetic resonance; Oxo-bis(phenylhydrazono) compounds; Phenylhydrazono-phenylazo tautomerism; 10286. SP305-1.

se-nitrosophiles; Socioeconomic aspects; Typhoons; Construction; Design; Developing countries; Earthquakes; Low-cost housing; Natural disasters; NBS-GCR-73-21. SP305-8.

se-nitrosophiles; Standardization; Testing facilities; Building technology; Information handling; Measurement services; NBSIR 76-1083. SP305-8.

se-nitrosophiles; Pragmatism; Research priorities; Weights and measures; Benefit-cost; History; Peirce; 10203. SP305-1.

se-nitrosophiles of design; Physical constants; Variance components; Interlaboratory comparisons; 13132. SP305-5.

se-nitrosophiles of design; Randomization; Restricted randomization; Experimental design; 13131. SP305-5.

se-nitrosophiles; Valency; Alchemy; Free radicals; Genesis; SP357, pp. 1-6. SP305-4.

se-nitrosophiles; Photometry; Radiometry; Terminology; Geometrical radiative transfer; Nomenclature; Optical radiation; 13255. SP305-5.

se-nitrosophiles; Deformation phenomena; E. R. Fitzgerald; Particle waves; 10450. SP305-1.

- Phonon avalanche; Phonon bottleneck; Spin-lattice relaxation; Spin-phonon interactions; Inelastic phonon-boundary scattering; 10236. SP305-1.
- Phonon bottleneck; Phonon-boundary scattering; Spin-phonon interactions; Spin-lattice relaxation; *Mono. 102. SP305.*
- Phonon bottleneck; Spin-lattice relaxation; Spin-phonon interactions; Inelastic phonon-boundary scattering; Phonon avalanche; 10236. SP305-1.
- Phonon dispersion; Raman scattering; Silicon; Gallium phosphides; High pressure; Metallic phase transitions; 15187. SP305-7.
- Phonon dispersion relation; Semiconductors; Cadmium telluride; Frequency dispersion; Lattice dynamics; Neutron inelastic scattering; 14375. SP305-6.
- Phonon dynamical matrix; Real parameters; Dynamical matrix; Matrix, dynamical; 15690. SP305-7.
- Phonon dynamical matrix; Time reversal symmetry; Counting independent parameters; 15216. SP305-7.
- Phonon energies; Cold neutron scattering; Force constants; Gray tin; 10408. SP305-1.
- Phonon frequency distribution; Single crystal; Coherent neutron scattering; Dispersion relation; Lattice dynamics; Palladium deuteride; 15036. SP305-7.
- Phonon frequency shift;  $\text{RbMnF}_3$ ; Acoustic phonons; Antiferromagnet; Attenuation; EuO; Ferromagnet; Magnetic insulators;  $\text{MnF}_2$ ; 11489. SP305-2.
- Phonon interactions; Saturation factor; 4-3m symmetry; Angular dependence; Hexadecapole; Hexadecapole transitions; 9357. SP305.
- Phonon nuclear interaction; Ultrasonics; Boxcar integrator; Nuclear magnetic resonance; TN344. SP305.
- Phonon scattering; Dislocation drag; Dislocation-phonon interactions; Electroresistivity; Kink motion; SP317, pp. 397-401. SP305-3.
- Phonon scattering; Thermal resistivity; Cottrell atmospheres; Mechanical properties; SP317, pp. 391-394. SP305-3.
- Phonon-boundary scattering; Spin-phonon interactions; Spin-lattice relaxation; Phonon bottleneck; *Mono. 102. SP305.*
- Phonon-dislocation interactions; Solid-state; Theoretical physics; Thermally activated processes; Twinning; Conference; Continuum mechanics; Crystal physics, dislocations; Dislocations; Elasticity; Electron-dislocation interactions; Lattice defects; SP317. SP305-3.
- Phonon-electron interaction; Phonon-quasiparticle interaction; Powder; Sintering; Copper; Heat transfer; Helium 3-helium 4; Kapitza resistance; 14749. SP305-7.
- Phonon-electron interaction; Powder; Copper; Cryogenics; Dilution refrigerator; Helium-3-helium-4; Kapitza resistance; 12552. SP305-4.
- Phonon-nuclear interactions; Saturation factor; Ultrasonically induced transitions; Angular dependence; Hexadecapole; Hexadecapole transitions; 10577. SP305-1.
- Phonon-nuclear quadrupole interaction; Angular dependence; 9917. SP305-1.
- Phonon-quasiparticle interaction; Powder; Sintering; Copper; Heat transfer; Helium 3-helium 4; Kapitza resistance; Phonon-electron interaction; 14749. SP305-7.
- Phonons; Alloy; Electronic structure; Interstitial; Lattice dynamics; Niobium deuteride; 15389. SP305-7.
- Phonons; Copper oxide; Cuprous oxide; Excitons; Forbidden bandgap; 12998. SP305-4.
- Phonons; Crystal; Fermi surface; Interstitial hydrogen; Lattice dynamics; Palladium hydride; 14854. SP305-7.
- Phonons; Dislocation dynamics; Dislocation-electron interactions; SP317, pp. 1291-1292. SP305-3.
- Phonons; Helium four; Lambda temperature; Lattice model; 14370. SP305-6.
- Phonons; Potassium chloride; Charged impurities;  $F$  center; Gaussian distribution; Holtsmark distributions; Lifetime; 13023. SP305-4.
- Phonons; Reorientation effect; Admixture; Anharmonicity; Branching ratios; Electron scattering; 12927. SP305-4.
- Phonons; Reorientation effect; Admixture; Anharmonicity; Branching ratios; Electron scattering; 16508. SP305-8.
- Phonons; Rotational disorder; Single crystal; Alkali cyanide; Crystal dynamics; Dispersion curves; Orientation; 15 SP305-7.
- Phonons; Selection rules; Strontium titanate; Brillouin zone; Critical points; Infrared; Optical absorption; 11575. SP30
- Phonons; Semiconductors; Superconductivity; Tunneling; Density of states; SP323, pp. 673-679. SP305-4.
- Phonons; Semiconductors; Superconductivity; Tunneling; Density of states; J74A No. 4, 559-565 (1970). SP305-2.
- Phonons; Thermal conductivity; Dislocation mobility; Dislocation-phonon interactions; Nonlinear elasticity; SP317, 363-389. SP305-3.
- Phonons; Transferred hyperfine; Interaction; Nuclear spin system; 11755. SP305-2.
- Phosgene; Arsine; Calibration of devices; Gas-blending system; Hydrogen fluoride; 15592. SP305-7.
- Phosphate; Solubility isotherm; Calcium; Hydroxyapatite; 9 SP305.
- Phosphate; Standards for pD; Acidity; Carbonate; Citrate; Lanthanum ion; Deuterium oxide; Glass electrode; Heavy water; 11079. SP305-2.
- Phosphate; Water molecule; Hydrate; Hydrogen bond; Monocalcium phosphate; Monohydrate; Neutron diffraction; 14864. SP305-7.
- Phosphate glass; Aluminophosphate glass;  $\text{Fe}^{2+}$ ; Glass; Mössbauer spectra; 13315. SP305-5.
- Phosphate glass; Photographic film; Radioactive sources; Thermal neutrons; X rays; Calibration; Data processing; Evaporation; Gamma rays; Intercomparison; Performance; Persulfate dosimetry; 10920. SP305-2.
- Phosphate glass; Silicate glasses; Fused silica; Infrared absorption; Infrared reflection; Optical constants; Oxide glass; 9635. SP305-1.
- Phosphate pollution; Solubility; Calcium carbonates; Calcium phosphates; Hydroxyapatite; Limnetic phosphate; Phase diagrams; 13521. SP305-5.
- Phosphates; Phosphoric acid; Crystal structure; Hydrogen bonding; Neutron diffraction; 14702. SP305-6.
- Phosphates; Sulfates; Thermodynamic data; X-ray diffraction data; Chromates; Crystal structure; Crystal structure transformations; Perchlorates; Phase transformations; NS, NBS56. SP305-7.
- Phosphates; X-ray diffraction; Apatite; Dehydroxylation; temperature; J72A No. 6, 783-787 (1968). SP305-1.
- Phosphazenes; Phosphorus flame retardants; Polyester; Phosphates; Radiation grafting; Antimony oxide; Bromine flame retardants; Calorimetry; Cotton; Cotton/polyester; ETIP; Fabric flammability; Flame retardant mechanisms; NBS-GCR-ETIP 76-22. SP305-8.
- Phosphides; Refractory; Sulfides; Transition metal; Cooling polyhedra; Crystal structure; Intermetallic; SP364 651-662. SP305-4.
- Phosphine; Rotational constants; Forbidden transitions; Ground state splitting; Infrared spectrum; Perturbation allowed transitions; 13505. SP305-5.
- Phosphine; Sodium acetate; Sorber, solid; Work atmosphere; Air analysis; Air sampler; Charcoal; Chlorine; Fluorine analysis; Hydrogen cyanide; Hydrogen fluoride; Industrial hygiene; NBSIR 74-527. SP305-6.
- Phosphine; Sorber; Work atmosphere; Air analysis; Air sampling; Gas analysis; Industrial hygiene; NBSIR 74-527. SP305-8.
- Phosphines; Tetracyanotetrafluorovalene; Tetracyanotetrafluorovalene-triphenylphosphine;  $\Delta^{2,2}$ -bis-14,5-dicyanodithiodene; 1,3-dithiolenes;  $^{31}\text{P}$  NMR; 4,5-dicyan

thiolene-2-thione; Aryl phosphines; Cyclic voltammetry; 1991. **SP305-8.**

phospholipids; Spingomyelin; Thermal studies; Atherosclerosis; Cholesterol and its fatty acid esters; Differential scanning calorimetry; Lecithin; Lipid-water systems; *SP338*, pp. 99-7. **SP305-2.**

phosphonium halides; Proton; Proton second moment; Spin-lattice relaxation; Activation energy; Ammonium iodide; Hindered rotation; Nuclear magnetic relaxation; 11168. **SP305-**

phosphonium halides; Raman spectra; Torsional frequency; bration; Barrier to rotation; Crystal force field; Crystal nature; Lattice modes; 11441. **SP305-2.**

phosphonium halides; Raman spectra; Torsional oscillation; bration; Crystal structure; Force field; Hindered rotation; ser; 11103. **SP305-2.**

phosphonium iodide (PH<sub>4</sub>I); Barrier to rotation; Electrostatic field; Inelastic neutron scattering; 9503. **SP305.**

phosphor; Piezoelectric; System BaTiO<sub>3</sub>-SiO<sub>2</sub>; TiO<sub>2</sub> solvent; 4-TiSi<sub>2</sub>O<sub>8</sub>; BaTiSi<sub>2</sub>O<sub>8</sub>; Crystal growth; Fresnoite; *J.74A No. 2*, 9-232 (1970). **SP305-2.**

phosphorescence; Pyrazine; Singlet emission; Spectrum of razine in benzene; Triplet emission; Vibration spectrum; iorescence; 13092. **SP305-5.**

phosphorescence; Triplet state; Energy transfer; Fluorescence; 015. **SP305-2.**

phosphorescence; Triplet states; Crystals; 9178. **SP305.**

phosphorescence; Triplet states; Delayed fluorescence; iorescence; Intersystem crossing; 11014. **SP305-2.**

phosphorescence; Triplet states; Energy transfer; Fluorescence; 514. **SP305-1.**

phosphorescence; Triplet states; Energy transfer; Fluorescence; 570. **SP305-1.**

phosphorescence; Triplet states; Energy transfer; Fluorescence; 32. **SP305-1.**

phosphorescence measurement; Fluorescence measurement; Instrumentation, luminescence measuring; Luminescence measurement; *NBSIR 74-552*. **SP305-6.**

phosphorescence measurement; Fluorescence measurement; Instrumentation, luminescence measuring; Luminescence measurement; *NBSIR 74-553*. **SP305-7.**

phosphoric acid; Crystal structure; Hydrates; Hydrogen bonding; Neutron diffraction; Phosphates; 14702. **SP305-6.**

phosphoric acid; Enamel; Hydroxyapatite; Monocalcium phosphate monohydrate; Pit and fissure sealant; 13856. **SP305-6.**

phosphoric acid; Phosphorus pentachloride; Enthalpy of formation; *J.78A No. 3*, 375-386 (1974). **SP305-6.**

phosphoric acid; PK; Thermodynamics; Acidity; Deutrophosphoric acid; Deuterium oxide; Dissociation constant; if measurements; Isotope effects; 11601. **SP305-2.**

phosphoric acid; Ternary metal-sulfur arrays; Transition elements; Triphenylphosphine; Tungsten bronze; Electrocatalysis; Fuel cells; Mixed oxides; Oxygen reduction; *NBSIR 75-2*. **SP305-8.**

phosphoric acid hemihydrate; Crystal structure; Monoclinic salts; 11229. **SP305-2.**

phosphorimetry; Rotating capillary cell; Solvents for phosphorimetry; Aqueous solvents in phosphorimetry; *SP378*, 169-182. **SP305-5.**

phosphorimetry; Rotating capillary cell; Solvents for phosphorimetry; Aqueous solvents in phosphorimetry; *J.76A No. 6*, 579-592 (1972). **SP305-4.**

phosphorus; Silicon; Sulfur; Boron; Carbon; Light elements; salts; Nitrogen; Oxygen; *TN524*. **SP305-2.**

phosphorous acids; Pyrolysis; Ramie; Rayon; Sulfur; Cellulosic esters; Combustion; Cotton fibers; Flame retardant treatments; *NBS-GCR-73-4*. **SP305-8.**

phosphorous pentoxide; Water vapor; Absorption; Drying; *SIR 74-631*. **SP305-7.**

Phosphors; Photo-excitation; Photoluminescence; Spectral emission; Spectral radiometry; Standard phosphor samples; *TN417*. **SP305-1.**

Phosphors; Quantum efficiencies; Radiant efficiencies; UV excitation; X-ray excitation; Cathode-ray excitation; Luminescence; Luminescence standards; *J. Res. 80A No. 3*, 401-407 (1976). **SP305-8.**

Phosphorus; Fluorine; Methylthiotetrafluorophosphorane; Nuclear magnetic resonance; 14798. **SP305-7.**

Phosphorus; Polyester; Flame retardancy; Mass spectrometry; Optical spectroscopy; *NBSIR 75-741*. **SP305-7.**

Phosphorus; Polyester; Flame retardancy; Mass spectrometry; Optical spectroscopy; 16037. **SP305-8.**

Phosphorus; Polyester; Polymer substrates; Pyrolysis-gas chromatography; Textiles; Thermal analysis; Calorimetry; Cellulose; Flames; Flammable gases; Nylon; Oxidation reactions; Oxygen index; *SP411*, pp. 37-49. **SP305-6.**

Phosphorus; Polyester; Rayon; Treatments; Cotton; Fabrics; Flame retardants; Flammability; *NBS-GCR-73-16*. **SP305-8.**

Phosphorus; Potassium; Silicon; Sodium; Sulfur; Transition probabilities; Allowed and forbidden transitions; Aluminum; Argon; Calcium; Chlorine; Magnesium; Oscillator strengths; *NSRDS-NBS22*. **SP305-1.**

Phosphorus; Process control; Process modeling; Spreading resistance; Arsenic; Boron; Design; Device modeling; Doping distribution; *SP400-10*, pp. 235-248. **SP305-6.**

Phosphorus; Rate; Calorimetric; Cellulose; Flammability; Flame retardant; Heat; 14603. **SP305-6.**

Phosphorus; Relative signs; Silicon; Spin coupling constants; Double resonance; Fluorine; Fluorosilanes; Hydrogen; Nuclear magnetic resonance; 10373. **SP305-1.**

Phosphorus; Spectral analysis; Computer program; Isopropyl; NMR; Nuclear magnetic resonance; 11897. **SP305-3.**

Phosphorus; Spectrometry; Sulfur; Triple pass on-axis; Flame; Hydrogen; Long-path burner; Multichannel spectrometer; Non-metals; Overexcitation; 12658. **SP305-4.**

Phosphorus flame retardants; Polyester; Precondensates; Radiation grafting; Antimony oxide; Bromine; Bromine flame retardants; Calorimetry; Cotton; Cotton/polyester; ETIP; Fabric flammability; Flame retardant mechanisms; Flame retardant monomers; *NBS-GCR-ETIP 76-22*. **SP305-8.**

Phosphorus halides; EPR; Free radicals; Irradiation; Low-temperature reaction; Methylchlorophosphines; 11636. **SP305-2.**

Phosphorus pentachloride; Enthalpy of formation; Phosphoric acid; *J.78A No. 3*, 375-386 (1974). **SP305-6.**

Phosphorus trifluoride-borane; Structure; Barrier; Coriolis; Dipole moment; Microwave spectrum; 9862. **SP305-1.**

Phosphotungstate complex ions; "spillover" effect; Transition metal carbides; Transition metal oxides; Tungsten bronze; Tungsten carbide; Electrocatalysis; Heteropolyanions; *SP455*, pp. 167-174 (Nov. 1976). **SP305-8.**

Photo absorption; Continuum states; Coupled channels; Interacting continua; Nuclear structure; O<sup>+</sup>; 10801. **SP305-1.**

Photo absorption; Photon polarization; Polarizabilities; Electromagnetic transition; Matrix elements; Nuclear orientation; Orientation parameter; 10819. **SP305-1.**

Photo degradation; Thermal control coatings; Ultraviolet degradation; Alkaline paint; Conduction of paints under ultraviolet exposure; Electrode potential of paints; *SP336*, pp. 393-402. **SP305-3.**

Photo detectors; Semiconductor lasers; Cryogenic cooler; Light emitters; Mode switching; 9838. **SP305-1.**

Photo electric effect; Photons; X-rays; Attention coefficient; Compilation; Compton scattering; 12648. **SP305-4.**

Photo flashbulb; Pressure; Pressure measurement; Pressure transducer; Thermal transient; Transducer; Calibration; Dynamic; *NBSIR 75-654*. **SP305-7.**

Photoabsorption; Atomic spectroscopy; 16253. **SP305-8.**

Photoabsorption; Bethe theory; Cross sections; Electron; Inner-shell electrons; Ionization; K-shell; L-shell; 15812. **SP305-8.**

Photoabsorption; Electron energy loss; Energy absorption;  $N_2O$ ; Nitrous oscillator strength; 15751. SP305-8.

Photoabsorption; Lanthanides; Metallic spectrum; 12839. SP305-4.

Photoabsorption; Photoabsorption theory; Total absorption cross sections; Absorption and ionization coefficients; Cross section data; Detachment; Dissociation; Ionization; NBS-OSRDB-70-4 (COM-71-00025). SP305-3.

Photoabsorption; Photoionization; Photon; Atoms; Compilation; Cross section data; 12210. SP305-3.

Photoabsorption; Photon scattering; Sum rules; Effective interaction; Electron scattering; Nucleon-nucleon correlations; 13754. SP305-5.

Photoabsorption; Refractive index; Atomic spectroscopy; Dispersion; 16379. SP305-8.

Photoabsorption; Sodium (Na); Transmission measurements; Aluminum (Al); Beryllium (Be); Electronic density of states; Electron synchrotron light; K spectra; Light metals; Lithium (Li); L spectra; Magnesium (Mg); SP323, pp. 275-277. SP305-4.

Photoabsorption; Soft x rays; Subshell structure; Angular distribution; 16386. SP305-8.

Photoabsorption; Surface vibrations; Collective correlations; Collective intermediate structure; Dipole vibrations; Giant resonance; Particle-hole structure; 10634. SP305-1.

Photoabsorption; Theory; Thulium; 3d edges; Erbium; 13045. SP305-4.

Photoabsorption; 4d absorption; 4f orbital contraction; Barium vapor; Configuration interaction;  $I_{IV,V}$  ionization thresholds; 14907. SP305-7.

Photoabsorption cross section; Photoionization cross section; Soft x-rays; Central potential model; 10395. SP305-1.

Photoabsorption cross section; Photochemistry; Quantum yield; Rate constant; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase; TN866. SP305-7.

Photoabsorption cross section; Photochemistry; Quantum yield; Rate constant; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase; 16067. SP305-8.

Photoabsorption cross sections; Photodissociation; Photoexcitation; Photoionization; Photon-scattering; Total; Ultraviolet cross sections; Aeronomic; Astrophysical; Partial; NSRDS-NBS38. SP305-3.

Photoabsorption theory; Total absorption cross sections; Absorption and ionization coefficients; Cross section data; Detachment; Dissociation; Ionization; Photoabsorption; NBS-OSRDB-70-4 (COM-71-00025). SP305-3.

Photoabsorption transition elements; Rare earths; Autoionization; Exchange interaction; 12275. SP305-3.

Photoabsorption/ionization; Spectral densities; Electron scattering; Moment theory; 16359. SP305-8.

Photoacoustic; Surface absorption coefficients; Transparent materials; Bulk absorption coefficients; Fourier amplitudes; Gas pressure; Heat transfer; Phase shifts; 16558. SP305-8.

Photoacoustic; Transparent materials; Absorption coefficients; Cylindrical configurations; Gas pressure; Heat transfer; 15936. SP305-8.

Photoacoustic method; Absorption coefficients; Heat diffusion equations; Highly transparent solids; Hydrodynamic equations; Optical materials; 15971. SP305-8.

Photoacoustic spectrometer; Piezocalorimeter; Transducers; Triplet formation; Absolute quantum efficiency; Absolute quantum yield; Calorimetry; Luminescence; J. Res. 80A No. 3, 413-419 (1976). SP305-8.

Photoactivated weathering test; Radial positioning, wheel on shaft; Rubber-surfaced road; Slush cryogen density; Tire groove invert; Tire regrooving; Waveguide, precision fabrication; Waveguide, adjustable width; Weathering test; TN536. SP305-2.

Photo-assisted electrolysis; Rutile; Electrocatalyst; Hydrogen evolution; Lanthanum titanate; Oxygen electrode; SP455, pp. 313-321 (Nov. 1976). SP305-8.

Photocatalytic electrodes; Photoelectrolytic cells; Photogalvanic cells; Quantum efficiency; Solar energy; Energy level; SP455, pp. 221-227 (Nov. 1976). SP305-8.

Photocell linearity; Photometric accuracy; Radiation addition method; Nonlinearity; SP378, pp. 63-79. SP305-5.

Photocell linearity; Photometric accuracy; Radiation addition method; Nonlinearity; J76A No. 5, 437-453 (1972). SP305-4.

Photocells; Photodiodes; Photometry; Radiometry; Selenium Silicon; Stability; Temperature dependence; Fatigue; Light memory; TN594-5. SP305-5.

Photocells; Photometers; Photometry; Phototubes; Spectral correction of phototubes; Filters; 10117. SP305-1.

Photochemical; Photooxidation; Polycyclic; Pyrene; Reaction; 1,1'-bipylene; 1,6- and 1,8-pyrenediones; Aromatic Hydrocarbons; Particulates; 9703. SP305-1.

Photochemical dissociation; Rate constants; Alkylhalides; Far ultraviolet photochemistry; Free radicals; Hydrogen atom; 14462. SP305-6.

Photochemical enrichment; Boron isotope separation; Boron trichloride; Isotope enrichment; Laser isotope separation; U.S. Patent 3,996,120. SP305-8.

Photochemical fabrication; Photographic image structure; 11056. SP305-2.

Photochemical oxidants; Standards; Sulfur dioxide; Carbon monoxide; Hydrocarbons; Measurement; Nitrogen dioxide; Particulate matter; 16121. SP305-8.

Photochemical principles; Photochemical reaction of atoms and molecules; Photochemistry in the atmosphere; Photochemistry of air pollution; Primary and secondary photochemical processes; Bond energy; Chain reaction; Determination of photochemical mechanism; Flash photolysis; 16515. SP305-4.

Photochemical reaction; Thiophosgene; Chlorine isotope; Isotope separation; Laser-induced reaction; Laser irradiation; 15959. SP305-8.

Photochemical reaction of atoms and molecules; Photochemistry in the atmosphere; Photochemistry of air pollution; Primary and secondary photochemical processes; Bond energy; Chain reaction; Determination of photochemical mechanism; Flash photolysis; Intermittent illumination; 16515. SP305-8.

Photochemical reaction rates; D region; Electron density profiles; Free electrons; High latitudes; 10012. SP305-1.

Photochemical smog; Rate constant; Air pollution; Kinetic; Mass spectrometry; Olefin; Ozone; 15355. SP305-7.

Photochemistry; Apparatus and methods; Chemiluminescence; Emission spectra; Free radicals; Kinetics of reactions; Laser; infrared; 14687. SP305-6.

Photochemistry; Apparatus and methods; Chemiluminescence; Emission spectra; Free radicals; Kinetics of reactions; Laser; infrared; 14969. SP305-7.

Photochemistry; Charge transfer; Cycloalkanes; 10307. SP305-1.

Photochemistry; Chemiluminescent reactions; Fiber optics; 12971. SP305-4.

Photochemistry; Dye laser; Isotope; Isotope separation; 1485. SP305-7.

Photochemistry; Isotope separation; Kinetics; Lasers; 1653. SP305-8.

Photochemistry; Photoionization; Quantum yields; Ion-molecule reaction; Ion pair yield; Methane; J77A No. 1, 101-110 (1973). SP305-5.

Photochemistry; Photoionization; Rare gases; Resonance lamp; Saturation ion current; Aluminum window; Extinction coefficients; Ionization quantum yield; TN496. SP305-1.

Photochemistry; Photoionization; Reaction kinetics; Thermodynamic; Absorption and emission spectroscopy; F



- (vacuum) ultraviolet; Ion-molecule reactions; Matrix isolation; 13177. SP305-5.
- Photochemistry; Photometry; Physical optics; Radiometry; Spectrometry; Spectroradiometry; Analytical chemistry; Nomenclature; 16331. SP305-8.
- Photochemistry; Photooxidation;  $\Delta O_2$ ; Lasers; 13300. SP305-5.
- Photochemistry; Polymers; Radiation chemistry; Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; COM-71-01103. SP305-4.
- Photochemistry; Polymers; Radiation chemistry; Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; COM-72-10266. SP305-4.
- Photochemistry; Primary processes; 1-butene; Far ultraviolet; Free radical reactions; Ion-molecule reactions; 14773. SP305-7.
- Photochemistry; Quantum yield; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Energy transfer; Gas phase; High temperature air chemistry; Ion-molecule reactions; Optical absorption cross sections; 13597. SP305-5.
- Photochemistry; Quantum yield; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reaction; Optical absorption cross section; 13770. SP305-5.
- Photochemistry; Quantum yield; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Energy transfer; Gas phase; High temperature air chemistry; Ion-molecule reactions; Optical absorption cross sections; NBSIR 1074-430. SP305-6.
- Photochemistry; Quantum yield; Rate constant; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase; Photoabsorption cross section; TN866. SP305-7.
- Photochemistry; Quantum yield; Rate constant; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase; Photoabsorption cross section; 16067. SP305-8.
- Photochemistry; Quantum yields; Rare gas levels; vacuum ultraviolet sensitized decomposition; Energy transfer; Hydrocarbons; 11128. SP305-2.
- Photochemistry; Quantum yields; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reactions; Optical absorption cross sections; 13563. SP305-5.
- Photochemistry; Quantum yields; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reactions; Optical absorption coefficients; J. Phys. Chem. Ref. Data 2, No. 2, 267-311 (1973). SP305-6.
- Photochemistry; Quantum yields; Stratosphere; Trichlorofluoromethane; Absorption cross section; Chlorine atom; Dichlorodifluoromethane; Freons; 15571. SP305-7.
- Photochemistry; Radiation chemistry; 9543. SP305-1.
- Photochemistry; Resonance fluorescence; Vibrational relaxation; Apparatus; Energy transfer; Metals; Method; 13900. SP305-6.
- Photochemistry; Review; Saturation spectroscopy; Spectroscopic analysis; Dye laser; Isotope separation; 13818. SP305-6.
- Photochemistry; Spectra; Vacuum ultraviolet; Vibronic structure; Borazine; Gas phase; Matrix isolation; 12459. SP305-4.
- Photochemistry; Spectroscopy; Vacuum ultraviolet; Absorption; Analysis; Gas; TN476. SP305-1.
- Photochemistry; Spectroscopy; Vacuum ultraviolet; Absorption; Analysis; Gas; 11493. SP305-2.
- Photochemistry; Stratosphere; Atmosphere; Carbon monoxide; Chemical kinetics; Data evaluation; Hydroxyl; Nitric acid; Nitric oxide; Nitrogen dioxide; Oxygen atom; Ozone; 13441. SP305-5.
- Photochemistry; Stratosphere; Water; Atmospheric chemistry; Chemical kinetics; Data evaluation; Nitrogen oxides; Ozone; 13491. SP305-5.
- Photochemistry; Stratospheric chemistry; Chemical kinetics; Data center operation; Information analysis center; 16364. SP305-8.
- Photochemistry; Ultraviolet; Carbenes; Hydrocarbons; 9910. SP305-1.
- Photochemistry; Vacuum ultraviolet; Window materials; Actinometry; Experimental; Light sources; 12942. SP305-4.
- Photochemistry; Vacuum ultraviolet; Atomic lines; Br; C; Flow lamp; N; O; 10895. SP305-2.
- Photochemistry; Vacuum ultraviolet; Ammonia; Jupiter; Methane; 11375. SP305-2.
- Photochemistry; Vacuum uv; Absorption spectra; Apparatus and method; Energy transfer; Gases; Kinetics of reaction; 13951. SP305-6.
- Photochemistry;  $\Delta O_2$ ; Lasers; 14635. SP305-6.
- Photochemistry in the atmosphere; Photochemistry of air pollution; Primary and secondary photochemical processes; Bond energy; Chain reaction; Determination of photochemical mechanism; Flash photolysis; Intermittent illumination; Photochemical principles; 16515. SP305-8.
- Photochemistry of air pollution; Primary and secondary photochemical processes; Bond energy; Chain reaction; Determination of photochemical mechanism; Flash photolysis; Intermittent illumination; Photochemical principles; Photochemical reaction of atoms and molecules; 16515. SP305-8.
- Photocomposing; Phototypesetting; Computer typesetting; Data processing; 10460. SP305-1.
- Photocomposition; Printing; Computer-typesetting; Cost studies or economic feasibility; Estimating complex keyboarding; Micropublishing; 10637. SP305-1.
- Photocomposition; Printing; Publication; Typesetting; Automation; Computers; 9591. SP305-1.
- Photocomposition; Printing and publication; Automated type composition; Computerized typesetting; Graphic arts; Mono. 99. SP305.
- Photocomposition and typesetting; Storage hierarchies; Time sharing; Computer-assisted-instruction; Information display; Information recording; Machine-aided design; Memory allocation; Microforms; Multiple-access systems; On-line systems; Monogr. 113, Volume 2. SP305-2.
- Photocomposition; Photon; Programming; Text editing; Character generation; Composition language; Computer technology; Computerized text processing; Electronic composition; Electronic computer; Electronic printing; GRACE; Linotron; MACRO coding; SP295. SP305-1.
- Photoconductive decay; Photoconductivity; Photomagnetolectric effect; Recombination of excess carriers; Semiconductors; Surface photovoltage; Bibliography; Diffusion length; Diode recovery; Excess carrier lifetime; Measurement methods; TN465. SP305-1.
- Photoconductive decay; Photomagnetolectric effect; Silicon; Surface photovoltage; Carrier lifetime; Diode recovery time; Germanium; 10584. SP305-1.
- Photoconductive decay; Silicon; Carrier lifetime; Germanium; TN736. SP305-4.
- Photoconductive decay lifetime; Reverse recovery time; Carrier drift mobility; Carrier trapping; Charge collection efficiency; Energy resolution; Gamma ray detectors; Hall mobility; Infrared absorption; Lithium drift mobility; Lithium precipitation; Oxygen; 10465. SP305-1.
- Photoconductivity; Photoemission; Polarons; Amorphous semiconductors; Anderson transition; Augmented plane wave method (APW); Chalcogenide glasses; Electronic density of states; Franck-Condon principle; Localized states; Mott insulator; SP323, pp. 493-503. SP305-4.
- Photoconductivity; Photoexcitation; Photoluminescence; Transport data; Diffuse reflectivity;  $LaCrO_3$ ; 14084. SP305-6.

- Photoconductivity; Photomagnetolectric effect; Recombination of excess carriers; Semiconductors; Surface photovoltage; Bibliography; Diffusion length; Diode recovery; Excess carrier lifetime; Measurement methods; Photoconductive decay; *TN465. SP305-1.*
- Photoconductivity; Photoresponse; Semiconductors; Silicon; Deep impurities; Germanium; Infrared; *TN570. SP305-3.*
- Photoconductivity; Point potential probe; Spreading resistance; Voltage breakdown; Bibliography; Semiconductors; Material inhomogeneities; Measurement methods; Photovoltaic; Electron voltaic; *TN445. SP305-1.*
- Photoconductivity; Strontium titanate; Electric field quenching; Luminescence; Negative resistivity; *9753. SP305-1.*
- Photoconductivity; Surface; Surface finish; Doping; GaAs; Laser induced damage; *SP372, pp. 70-74. SP305-4.*
- Photoconductor; Picosecond; Pulse; Detector; Dye laser; GaAs; *15651. SP305-7.*
- Photoconductor; Picosecond; Sampling; Sampling oscilloscope; Strobe; GaAs; Laser; Optical; Oscilloscope; *15835. SP305-8.*
- Photoconductor; Pulse measurements; Sampling; Laser; Optical pulse; Oscilloscope; *16193. SP305-8.*
- Photoconductor; Sampling oscilloscope; GaAs; Laser; *15644. SP305-7.*
- Photocopying; Reprography developments; Bibliographic data files; Communications technology developments; Computer developments; COM systems extension; Copyright protection; Facsimile transmission extension; *16040. SP305-8.*
- Photocurrents; Radiation; Radiation detector; Radiation dosimetry; Silicon radiation detector; Temperature dependence; X rays; Gamma rays; *J75A No. 6, 579-589 (1971). SP305-3.*
- Photodecomposition; Excited state; Hydrogen formation; Ketene; Methylene; *11040. SP305-2.*
- Photodecomposition; Preparation; Thermogravimetric analysis; Coordination; Infrared spectroscopy; Magnetic susceptibility; Mössbauer spectroscopy; *M<sub>2</sub>FeDTPA; 10556. SP305-1.*
- Photodecomposition; Silver chloride; Coulometric titration; High accuracy analysis; High precision analysis; *11268. SP305-2.*
- Photodecomposition; Thermogravimetric analysis; Coordination studies; Hydrogen aquoethylenediaminetetraacetateferrate (III) infrared spectroscopy; Magnetic susceptibility; *MFe(OH<sub>2</sub>)EDTA<sup>-</sup> O<sub>2</sub>;  $\mu$ M Mössbauer spectroscopy; 10606. SP305-1.*
- Photodegradation; Plastics; Polymers; Radiation; Radiometry; Sun; Weathering; Xenon arc; Carbon arc; Degradation; Irradiance; *10472. SP305-1.*
- Photodegradation; Poly(vinyl chloride); Rigid plastic; Ultraviolet absorbers; Color reactions; Opaque pigments; *10137. SP305-1.*
- Photodegradation; Surface degradation; Volatile degradation products; Xenon-arc irradiation; Atmospheric exposure; ATR spectroscopy; Clear and pigmented films; Infrared analysis; Internal reflection spectroscopy; Mercury-arc irradiation; *SP336, pp. 299-312. SP305-3.*
- Photodepopulation; Photovoltaic imaging; Rutherford backscattering; SCANIR; Secondary ion mass spectroscopy; Semiconductor devices; Silicon; Surface analysis; X-ray photoelectron spectroscopy; Auger spectroscopy; Depth profiles; Electron beam induced imaging; ESCA; *SP400-23. SP305-8.*
- Photodetachment; Absolute cross section; Iodine; Negative ions; *11137. SP305-2.*
- Photodetachment; Atomic; Crossed beam; Cross section; Electron affinity; Molecular; *13029. SP305-4.*
- Photodetachment; Cross section; Electron affinity; Molecular structure; Negative hydroxyl ion; OD<sup>-</sup> ions; OH<sup>-</sup> ions; *9285. SP305.*
- Photodetachment; Electron affinity; Molecular constants; Negative ions; Nitric oxide; *12883. SP305-4.*
- Photodetachment; Electron affinity of NH<sub>3</sub><sup>-</sup>; Electron affinity of NH<sub>3</sub><sup>-</sup>; Electron affinity of OH<sup>-</sup>; Electron affinity of SO<sub>2</sub><sup>-</sup>; *14134. SP305-6.*
- Photodetachment; Photodetachment rate measurement; Sunlight; Ion mobility; O<sub>3</sub><sup>-</sup>; *12268. SP305-3.*
- Photodetachment; Photodissociation; Cross section; Drift tube; Experimental; Molecule; Negative ion; O<sub>2</sub><sup>-</sup>; O<sub>3</sub><sup>-</sup>; O<sub>4</sub><sup>-</sup>; *15478. SP305-7.*
- Photodetachment; Photodissociation; CO<sub>2</sub><sup>-</sup>; CO<sub>3</sub><sup>-</sup>; H<sub>2</sub>O; D region; Electron density; Molecule; Negative ion; O<sup>-</sup>; O<sub>2</sub><sup>-</sup>; *15877. SP305-8.*
- Photodetachment; Photoelectron spectroscopy; Angular distribution; C<sup>-</sup>; H<sup>-</sup>; Negative ion; O<sup>-</sup>; *10482. SP305-1.*
- Photodetachment; Photoionization; Alkali metal reaction; Electron attachment; Infrared spectrum; Matrix isolation; NO<sub>3</sub><sup>-</sup>; *13705. SP305-5.*
- Photodetachment; Photoionization; Drift tube; Ion mobility; Oxygen negative ion; O<sub>2</sub><sup>-</sup>; *11482. SP305-2.*
- Photodetachment; Photoionization; Vacuum-ultraviolet photolysis; Alkali metal atoms; Electron bombardment; Infrared spectrum; Matrix isolation; Nitrite anion; Nitrogen dioxide; *11697. SP305-2.*
- Photodetachment; Radiative attachment experiments; Crosse beam method; Drift tube experiments; I<sup>-</sup>; Negative ion; *11132. SP305-2.*
- Photo-detachment; Recombination; D region; Ionosphere; Negative ions; *9252. SP305.*
- Photodetachment; S; Cross section behavior; Electron affinity; Negative ion; *13081. SP305-5.*
- Photodetachment; SH; Electron affinity; Free radical; Negative ions; *11138. SP305-2.*
- Photodetachment; Single-quantum; Double-quantum; Elastic scattering; Negative ions; *10231. SP305-1.*
- Photodetachment; Spin-orbit coupling; Tunable dye laser; Ion cyclotron resonance; Mass spectrometry; Negative ion; *14771. SP305-7.*
- Photodetachment; Tunable dye laser; Intracavity technique; Ion cyclotron resonance; Mass spectrometry; Negative ion; *14770. SP305-7.*
- Photodetachment; Water; Electron affinity; Negative ion; *10964. SP305-2.*
- Photodetachment cross section; Photodissociation; CO<sub>2</sub><sup>-</sup>; Negative ions; *13896. SP305-6.*
- Photodetachment rate measurement; Sunlight; Ion mobility; O<sub>3</sub><sup>-</sup>; Photodetachment; *12268. SP305-3.*
- Photodetector; Photodetector spectral response; Photomultiplier tubes; Phototubes; *14804. SP305-7.*
- Photodetector; Relative spectral output; Wavelength; Bar code reader; Filters; Optical wedge; *NBSIR 74-580. SP305-7.*
- Photodetector amplifier; Photometry; Instrumentation; Lamp orientation; Lamp power circuitry; Lamp stability; *TN594-SP305-4.*
- Photodetector spectral response; Photomultiplier tubes; Phototubes; Photodetector; *14804. SP305-7.*
- Photodetectors; Electrooptical coupling; Feedback amplifier; Light emitting diodes; *13917. SP305-6.*
- Photodetectors; Polarization; Quantum counters; Rhodamine chloride; Spectrofluorimetry; Total internal reflection; Emission anisotropy; Fluorescence; *16430. SP305-8.*
- Photodetectors in quantum yields; Quantum efficiency; Calorimetry in quantum yields; Laser, use in quantum yield; *SP378, pp. 151-167. SP305-5.*
- Photodetectors in quantum yields; Quantum efficiency; Calorimetry in quantum yields; Laser, use in quantum yield; *J. 76A No. 6, 561-577 (1972). SP305-4.*
- Photodiode; Silicon; Ultraviolet; Uniformity of response; Detector; *16413. SP305-8.*
- Photodiode detectors; Photometry; Interlaboratory test; *1548-SP305-7.*

- photodiodes; Photometry; Radiometry; Selenium; Silicon; Stability; Temperature dependence; Fatigue; Light memory; Photocells; *TNS94-5*. **SP305-5.**
- photodiodes; Photovoltaic effects; Radiation detection; Radiation detectors; Semiconducting devices; Silicon; X rays; Dosimetry; Gamma rays; *11114*. **SP305-2.**
- photodiodes; Radiometry; Thermopile; Detectors; Far ultraviolet; Ion chamber; *13550*. **SP305-5.**
- photodisintegration; Baryon resonances; Deuteron; Exchange currents; Magnetic moments; Nuclear structure; *11717*. **SP305-2.**
- photodisintegration; Bremsstrahlung; Cross section; Cryostat; Helium-3; Helium-4; Neutrons; *9739*. **SP305-1.**
- photodisintegration; Intermediate structure; Isotopic spin; *9774*. **SP305-1.**
- photodisintegration; Separable potential; Tritium; Cross sections; Electric dipole; Helium-3; *10409*. **SP305-1.**
- photodisintegration; Tritium; Cross sections; Dipole; Final state interactions; Helium 3; *10378*. **SP305-1.**
- photodisintegration; Zero-range; Cross section; Differential cross section;  $^3\text{H}$ ;  $^3\text{He}$ ; *9341*. **SP305.**
- photodissociation;  $\text{CO}_3^-$ ;  $\text{CO}_3^- \rightarrow \text{H}_2\text{O}$ ;  $D$  region; Electron density; Molecule; Negative ion;  $\text{O}^-$ ;  $\text{O}_2^-$ ; Photodetachment; *15877*. **SP305-8.**
- photodissociation;  $\text{CO}_3^-$ ; Negative ions; Photodetachment cross section; *13896*. **SP305-6.**
- photodissociation; Cross section; Drift tube; Experimental; Molecule; Negative ion;  $\text{O}_2^-$ ;  $\text{O}_3^-$ ;  $\text{O}_4^-$ ; Photodetachment; *15478*. **SP305-7.**
- photodissociation; Deuterium; Electron affinity; Hydrogen atom; Ion-pair formation; Para-hydrogen; *14161*. **SP305-6.**
- photodissociation; Photoexcitation; Photoionization; Photon-scattering; Total; Ultraviolet cross sections; Aerodynamic; Astrophysical; Partial; Photoabsorption cross sections; *NSRDS-NBS38*. **SP305-3.**
- photodissociation; Photoionization; Vacuum ultraviolet; Acetonitrile; Cyanoacetylene;  $\text{C}_2\text{H}$ ; Heat of formation; *13748*. **SP305-5.**
- photodissociation; Predissociation; Spin conservation rules; Vacuum ultraviolet; Bond energy; Fluorescence; *14143*. **SP305-6.**
- photodissociation; Predissociation; Rydberg states; Valence states; Ion-pair;  $\text{O}_2$ ; *15611*. **SP305-7.**
- photodissociation; Propene; 1-butene; Field low mass spectrometry; Hydrazine; *9971*. **SP305-1.**
- photodissociation; Rydberg; Born approximation; Energy surface; Generalized oscillator strength; Hartree-Fock;  $\text{H}_2\text{O}$ ; *11402*. **SP305-2.**
- photodissociation; SO; Vacuum ultraviolet; Heat of formation; OSCF; *12739*. **SP305-4.**
- photodissociation; Theory; Vibrational levels; Cross sections;  $\text{D}_2^+$ ;  $\text{H}_2^+$ ; *10742*. **SP305-1.**
- photodissociation; Vacuum ultraviolet; Absorption coefficient; Bond dissociation energies;  $\text{CN } B^2\Sigma$ ;  $\text{NCN } A^2\Pi$ ;  $\text{NCN}_2$ ; *13118*. **SP305-5.**
- photodissociation; Vacuum ultraviolet;  $\text{BrCN}$ ;  $\text{ClCN}$ ;  $\text{CN } B^2\Sigma$ ; Energy partition;  $\text{HCN}$ ;  $\text{ICN}$ ; *13319*. **SP305-5.**
- photodissociation; Vacuum ultraviolet; Collisional stimulations;  $\text{N}_2\text{O}$ ;  $\text{O}^1\text{S} \rightarrow \text{O}^1\text{D}$  emission; *13323*. **SP305-5.**
- photodissociation; Vacuum ultraviolet; Bond dissociation energy;  $\text{CS}_2$ ;  $\text{CSA}^2\Pi$ ;  $\text{D}_2^+(\text{SC-S})$ ; Fluorescence; *12828*. **SP305-4.**
- photodissociation; Vacuum ultraviolet; Absorption coefficient;  $\text{Cl}_2$ ; Emission; Electronic energy;  $\text{OCCl}_2$ ; *12289*. **SP305-3.**
- photodissociation; Vacuum ultraviolet; Bond dissociation energy; Fluorescence;  $\text{HNCO}$ ;  $\text{NCO } A^2\Sigma$ ;  $\text{NH } A^2\pi$ ;  $\text{C}^1\pi$ ; *12012*. **SP305-3.**
- photodissociation; Vacuum ultraviolet nitrosyl chloride; Absorption spectra; Fluorescence excited states; Nitrogen dioxide; *10669*. **SP305-1.**
- Photodissociation; Vacuum ultraviolet; Adsorption; Excited  $\text{NH}$ ; Excited  $\text{NH}_2$ ; Fluorescence;  $\text{NH}_2$ ; *10411*. **SP305-1.**
- Photodissociation; Vacuum ultraviolet; Bond dissociation energies;  $\text{BrCN}$ ;  $\text{ClCN}$ ;  $\text{CN}$ ;  $\text{C}_2\text{N}_2$ ;  $\text{FCN}$ ; Fluorescence;  $\text{HCN}$ ;  $\text{ICN}$ ; *10896*. **SP305-2.**
- Photodissociation; Vacuum ultraviolet; Absorption spectrum;  $\text{A}^2\Pi$ ; Fluorescence; Fluorescence quenching;  $\text{HN}_2$ ;  $\text{NH } c^1\Pi$ ; *11075*. **SP305-2.**
- Photodissociation; Vacuum ultraviolet; Acetylene; Bond dissociation energy; Bromoacetylene;  $\text{C}_2$ ;  $\text{C}_2\text{H}$ ; Fluorescence; *14986*. **SP305-7.**
- Photodissociation; Vibrational state populations;  $\text{D}_2^+$ ; Experiment;  $\text{H}_2^+$ ; Ionization; *12715*. **SP305-4.**
- Photoeffect; Hydrogen; Molecular cross section; *16132*. **SP305-8.**
- Photoelastic effect; Sapphire; Scanning Fabry-Perot interferometer; YAG; Birefringence; Fused silica; Optical spectrum analyzer; *SP387*, pp. 254-258. **SP305-5.**
- Photoelasticity; Electrostrictive; Glass; Lasers; *12223*. **SP305-3.**
- Photo-elasticity; Piezobirefringence; Piezooptical coefficients; Resonance-photoelasticity; Stress-birefringence; Absorption edge; Birefringence; Dispersion of piezobirefringence; Gallium arsenide; Nonlinear piezobirefringence; *10941*. **SP305-2.**
- Photoelasticity; Piezo-optic constants; Thermal coefficient of refractive index; Thermal expansion coefficient;  $\text{ZnSe}$ ;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ; Fused silica; Interferometry; *SP462*, pp. 58-63 (Dec. 1976). **SP305-8.**
- Photoelasticity; Piezo-optic constants; Refractive index; Stress-optical constants; Thermal coefficient of refractive index; Birefringence; Elastooptical constants; Infrared-laser window materials; Interferometry;  $\text{KCl}$ ; *NBSIR 76-1010*. **SP305-8.**
- Photoelasticity; Piezo-optic constants; Refractive index; Thermal coefficient of refractive index; Thermal expansion coefficient;  $\text{ZnSe}$ ;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ; Fused silica; Interferometry; *NBSIR 76-1115*. **SP305-8.**
- Photoelasticity; Piezo-optical constants; Refractive index; Elastooptical constants; Infrared materials;  $\text{KCl}$ ; Laser windows; *15937*. **SP305-8.**
- Photoelasticity; Polarimetry; Crystals; Damage; Glass; Infrared; Interferometry; Lasers; *15969*. **SP305-8.**
- Photoelasticity; Polycrystalline  $\text{ZnSe}$ ; Refractive index; Stress-optical constants; Thermal coefficient of refractive index;  $\text{As}_2\text{S}_3$ ; Chalcogenide glass; Coefficient of thermal expansion; Elastic constants; Infrared laser window materials; *SP414*, pp. 141-148. **SP305-6.**
- Photoelasticity; Polycrystalline  $\text{ZnSe}$ ; Refractive index; Stress-optical constants; Thermal coefficient of refractive index;  $\text{As}_2\text{S}_3$ ; Chalcogenide glass; Coefficient of thermal expansion; Elastic constants; Infrared laser window materials;  $\text{KCl}$ ; *NBSIR 74-525*. **SP305-6.**
- Photoelasticity; Polycrystalline  $\text{ZnSe}$ ; Refractive index; Stress-optical constants; Thermal coefficient of refractive index; Coefficient of thermal expansion; Elastic constants; Infrared laser window materials; *NBSIR 75-639*. **SP305-7.**
- Photoelasticity; Polycrystalline  $\text{ZnSe}$ ; Refractive index; Stress-optical constants; Thermal coefficient of refractive index;  $\text{ZnSe}$ ; Birefringence; Elastic constants; Infrared-laser window materials; Interferometry;  $\text{KCl}$ ; *NBSIR 75-781*. **SP305-7.**
- Photoelasticity; Polycrystalline  $\text{ZnSe}$ ; Stress optical constants; Elastic constants; Elastooptic; *15931*. **SP305-8.**
- Photoelasticity; Refractive index; Thermal conductivity; Thermo-optic properties; Transmittance; Chemical composition; Density; Glasses; Hardness; Laser; Optical homogeneity; *J75A No. 3*, 163-174 (1971). **SP305-3.**
- Photoelasticity; Ruby; Birefringence; Crystals, lasers; *J74A No. 2*, 215-220 (1970). **SP305-2.**
- Photoelasticity; Stressing apparatus; *15928*. **SP305-8.**
- Photoelasticity; Stress-optics; IR transmitting materials; *SP387*, pp. 194-201. **SP305-5.**

- Photoelasticity, dental applications; Porcelain-gold restorations, stress analysis; Stress analysis of dental structures; Brittle coatings for stress analysis; Dental materials; Denture, artificial, stress analysis; *SP354*, pp. 169-175. **SP305-4.**
- Photoelectric; Precision; Scanning; Stability; Standard; Wavelength; Fringe; Interferometer; Laser; Optical; *9942*. **SP305-1.**
- Photoelectric absorption; Photons; X-rays; Attenuation coefficient; Coherent scattering; Compilation; Cross section; Incoherent scattering; *12868*. **SP305-4.**
- Photoelectric absorption; Photons; X-rays; Attenuation coefficient; Compton scattering; Cross section; Energy absorption coefficient; Gamma rays; Pair production; *NSRDS-NBS29*. **SP305-1.**
- Photoelectric absorption; Photons; X-rays; Attenuation coefficient; Compton scattering; Cross section; Energy absorption coefficient; Gamma rays; Pair production; *10989*. **SP305-2.**
- Photoelectric absorption; Photons; Rayleigh scattering; X rays; Attenuation coefficient; Compilation; Compton scattering; Cross section; Crystallography; *14847*. **SP305-7.**
- Photoelectric colorimetry; Anomalous trichromatism; Color; Colorimeter; Dichromatism; Luminous efficiency; *10569*. **SP305-1.**
- Photoelectric detector; Detection; Detectors; Fire fatalities; Gas detectors; Ionization chamber detectors; Performance standards; *15218*. **SP305-7.**
- Photoelectric effect; Electronic density of states; Electron-electron scattering; Electrons in a box; Joint density of states; Kronig-Penney model; *SP323*, pp. 129-134. **SP305-4.**
- Photoelectric effect; Photoelectric threshold; Thin films; Vacuum ultraviolet;  $Al_2O_3$  films; Electron attenuation length; Electron mean free path; *11085*. **SP305-2.**
- Photoelectric effect; Photons; X rays; Attenuation coefficients; Cross sections; Gamma rays; *TN901*. **SP305-8.**
- Photoelectric effect; Tungsten; Vacuum ultraviolet; Oxygen adsorption; *10800*. **SP305-1.**
- Photoelectric effect; Tungsten; Vacuum ultraviolet; Oxygen adsorption; *10115*. **SP305-1.**
- Photoelectric photometry; Radiometric calibration; Radiometry; Laser; Laser energy measurement; Optical attenuator; *TN418*. **SP305.**
- Photoelectric pyrometer; Radiance sources; Standards; Temperature; Blackbody; International Practical Temperature Scale; Optical; *9347*. **SP305.**
- Photoelectric pyrometer, NBS; Pyrometer, photoelectric, NBS; Calibration, NBS photoelectric pyrometer of 1961; International Practical Temperature Scale; NBS photoelectric pyrometer; *9882*. **SP305-1.**
- Photoelectric smoke detector; Smoke control; Smoke movement simulation; Smokeproof tower; High-rise buildings; *NBSIR 75-701*. **SP305-7.**
- Photoelectric smoke detectors; Smoke detectors; Taguchi gas sensors; Fire detectors; Ionization chamber smoke detectors; *NBSIR 75-700*. **SP305-7.**
- Photoelectric smoke detectors; Smoke detector installation; Smoke detector placement; Smoke detectors; Detector sensitivity; Fire detectors; Mobile homes; *NBSIR 76-1016*. **SP305-8.**
- Photoelectric smoke detectors; Smoke detectors; Fire detection; Light extinction; Light scatter; Light-scatter measurements; *NBSIR 76-1087*. **SP305-8.**
- Photoelectric smoke detectors; Residential fires; Smoke detectors; Tenability levels; Detector sensitivity; Detector siting; Heat detectors; Ionization smoke detectors; *NBS-GCR-75-51*. **SP305-8.**
- Photoelectric threshold; Thin films; Vacuum ultraviolet;  $Al_2O_3$  films; Electron attenuation length; Electron mean free path; Photoelectric effect; *11085*. **SP305-2.**
- Photoelectric tristimulus; Spectrophotometric colorimetry; Visual colorimetry; Color dictionaries; Color vision; Colorimeters; *Monogr. 104*. **SP305-1.**
- Photoelectric tristimulus colorimeters; Photometry of retroreflective materials; Retroreflective sign materials; Colorimetry; Highway; *15117*. **SP305-7.**
- Photoelectric tristimulus colorimeters; Photometry of retroreflective materials; Retroreflective sign materials; Colorimetry; Highway signs; *NBSIR 74-518*. **SP305-8.**
- Photoelectric yield; Radiometric standards; Rare gas ionization chamber; Thermopiles; Tungsten; Vacuum ultraviolet; Anodized aluminum; Chromium; Gold; *14708*. **SP305-6.**
- Photoelectricity; Physics; *10685*. **SP305-1.**
- Photoelectrolysis; Solid electrolytes; Surfaces; Catalysis; Characterization; Chemisorption; Electrocatalysis; Electrochemistry; Electrode processes; Nonmetals; *SP455*. **SP305-8.**
- Photoelectrolytic cells; Photogalvanic cells; Quantum efficiency; Solar energy; Energy levels; Photocatalytic electrode; *SP455*, pp. 221-227 (Nov. 1976). **SP305-8.**
- Photo-electron; Photo-ionization; Spectroscopy; Bond angle; Bond length; Franck-Condon factors;  $H_2O$ ;  $NH_3$  ion; *1084*. **SP305-1.**
- Photoelectron; Photomultiplier; Resolution; Suppression; Afterpulse; GaP first dynode; Neutron; *14843*. **SP305-7.**
- Photoelectron energy distribution; Secondary-electron energy distribution; X-ray photoemission; Aluminum; Auger transitions; Copper; Electronic density of states; Nickel; *1348*. **SP305-5.**
- Photoelectron energy distribution; X-ray photoemission; Aluminum; Electronic density of states; *12964*. **SP305-4.**
- Photoelectron energy distribution; X-ray photoemission; Aluminum; Density of states; *14541*. **SP305-6.**
- Photoelectron escape; Silver-109m; Standardization; Work crystal counting; Cadmium-109; Cobalt-57; Gamma-ray emission rate; Iron-57; *12885*. **SP305-4.**
- Photoelectron spectra; Potassium; Rubidium; Sodium; X-ray; *13357*. **SP305-5.**
- Photoelectron spectra; Relaxation energy; Surfaces; Tungsten; Ultraviolet photoemission; Valence band; Virgin states;  $\beta$  states; Adsorption; Carbon; Carbon monoxide; Chemical bonding; Chemisorption; Density dependent transitions; Desorption; *16419*. **SP305-8.**
- Photoelectron spectra; Tungsten; Work function;  $C_2H_4$  decomposition; Chemisorption bonds; LEED; *14807*. **SP305-7.**
- Photoelectron spectra; Vibrational energy levels;  $D_0^0(HF)$ ;  $D_e(HF^+)$ ; Dissociation energy; Hartree-Fock; *12502*. **SP305-4.**
- Photoelectron spectroscopy; Adsorption; Auger spectroscopy; Catalysis; Infrared spectroscopy; Kinetics; *15318*. **SP305-7.**
- Photoelectron spectroscopy; Angular distribution;  $C^-$ ;  $H^-$ ; Negative ion;  $O^-$ ; Photodetachment; *10482*. **SP305-1.**
- Photoelectron spectroscopy; Carbon monoxide; Chemical shift; Chemisorption; ESCA; Nitric oxide; Oxygen; *14562*. **SP305-6.**
- Photoelectron spectroscopy;  $D_2O$ ; Franck-Condon principle; Geometry;  $H_2O$ ; Ion; Photoionization; *J73A No. 3*, 313-3 (1969). **SP305-1.**
- Photoelectron spectroscopy; Franck-Condon factor; Ionization;  $N_2O$ ;  $N_2O^+$ ; *12473*. **SP305-4.**
- Photoelectron spectroscopy; Photoemission from solids at chemisorbed gases; Ultrahigh vacuum; Ultraviolet source; High resolution electron energy analyzer; *12519*. **SP305-4.**
- Photoelectron spectroscopy; Photoemission; X-ray edge singularities; Asymmetric lineshapes; *15133*. **SP305-7.**
- Photoelectron spectroscopy; Photoemission; Single crystals; Tungsten; Ultraviolet photoelectron spectroscopy; Virgin C; Adsorption; Carbon monoxide; Chemisorption; Desorption; *15851*. **SP305-8.**



photoelectron spectroscopy; Physisorption; Tungsten; Xenon; XPS; Carbon monoxide; Chemisorption; ESCA; Extra-atomic relaxation; Formaldehyde; Oxygen; 16023. SP305-8.

photoelectron spectroscopy; Polarization energy; Relaxation energy; Screening energy; Molecular hydrogen; 15749. SP305-8.

photoelectron spectroscopy; Polar molecules; Alkali-halide; Negative ions; 15791. SP305-8.

photoelectron spectroscopy; Rare earth metals; 4f electron excitations; 15841. SP305-8.

photoelectron spectroscopy; Rare-earth magnets; X-ray photoelectron; Electronic structure; ESCA; Hard magnets; Magnetic materials; 14231. SP305-6.

photoelectron spectroscopy; Rydberg series; Electron spectroscopy; NO<sub>2</sub>; 12065. SP305-3.

photoelectron spectroscopy; V<sub>2</sub>O<sub>5</sub>; Metallic-insulator transition; SP264, p. 127. SP305-4.

photoelectron yield; Spectral response; Tungsten; Ultra-high vacuum; Vacuum ultraviolet; Heating effects; 11469. SP305-2.

photoelectronic linearity; Reflectance; Transmittance; High accuracy spectrophotometry; SP378, pp. 1-29. SP305-5.

photoelectronic linearity; Reflectance; Transmittance; High accuracy spectrophotometry; J.76A No. 5, 375-403 (1972). SP305-4.

photoelectrons; Photoionization; Spectroscopy; C<sub>2</sub>H<sub>2</sub>; Franck-Condon principle; H<sub>2</sub>O; NH<sub>3</sub>; N<sub>2</sub>O; 12118. SP305-3.

photoemission; Aluminum (Al); Direct and nondirect transitions; Electronic density of states; Indium (In); Nondirect transitions; Optical density-of-states; SP323, pp. 159-161. SP305-4.

photoemission; Aluminum-insulator-palladium (Al-Pd); Augmented plane wave method (APW); Cesium; Copper; Direct transitions; Electronic density of states; Joint density of states; Nondirect transitions; Optical density of states; SP323, pp. 191-197. SP305-4.

photoemission; Angular distributions; Chemisorption; Electron spectroscopy; 15759. SP305-8.

photoemission; Augmented plane wave method (APW); Electronic density of states; Europium-chalcogenides; Exchange potential; f bands; SP323, pp. 105-108. SP305-4.

photoemission; Chromium; Electronic density of states; Interpolation method; Iron; SP323, pp. 27-32. SP305-4.

photoemission; Photoionization; Adsorption; Angular distributions; 15748. SP305-8.

photoemission; Photoionization; Angular distributions; Chemisorption; 14806. SP305-7.

photoemission; Photoionization; Surfaces; Angular distributions; Chemisorption; 14233. SP305-6.

photoemission; Photoionization; Surfaces; Angular distributions; Chemisorption; 14981. SP305-7.

photoemission; Physisorption; Tungsten (100); Xenon; Crystal field; 15813. SP305-8.

photoemission; Plasmon; Secondary emission; Silver (Ag); Copper; Dielectric constant; Direct interband transitions; Electronic density of states; Interband transition; Korringa-Kohn-Rostoker (KKR); "muffin-tin" potential; SP323, pp. 181-189. SP305-4.

photoemission; Polarization; Polycrystalline film; Synchrotron radiation; Emission angle; Energy distributions; Gold; Incidence angle; 13223. SP305-5.

photoemission; Polaron; Amorphous semiconductors; Anderson transition; Augmented plane wave method (APW); Chalcogenide glasses; Electronic density of states; Franck-Condon principle; Localized states; Mott insulator; NiO; SP323, pp. 493-503. SP305-4.

photoemission; Rare-earth metals; UV and x-ray photoemission; X-ray photoemission; Barium (Ba);  $\beta$ -tungsten compounds; Effects of oxidation; Electronic density of states; Europium (Eu); Lanthanides; Matrix elements; SP323, pp. 217-220. SP305-4.

Photoemission; Reflectivity; Tungsten (W); Zinc (Zn); Dielectric constant; Electronic density of states; Molybdenum (Mo); Optical density of states; Optical properties; SP323, pp. 209-215. SP305-4.

Photoemission; Relaxation energy; Surface plasmons; Chemisorption; 15857. SP305-8.

Photoemission; Relaxation energy; Adsorption; Electron gas; 16421. SP305-8.

Photoemission; Scandium (Sc); Silver (Ag); Titanium (Ti); Zirconium (Zr); Copper; Direct versus nondirect transitions; Electronic density of states; Gold (Au); Nondirect transitions; Optical density-of-states; SP323, pp. 205-208. SP305-4.

Photoemission; Silver-gold alloys (AgAu); Silver-indium alloys (AgIn); Silver-palladium alloys (AgPd); Virtual crystal approximation; Coherent potential approximation; Electronic density of states; Friedel screening theory; SP323, pp. 551-554. SP305-4.

Photoemission; Single crystal; Tungsten; Ultraviolet photoelectron spectroscopy; Virgin CO; Adsorption; Carbon monoxide; Chemisorption; Desorption; Photoelectron spectroscopy; 15851. SP305-8.

Photoemission; Single crystals; Surface electron spectroscopy; Surface state; Tungsten; Chemisorption; Field emission; 14982. SP305-7.

Photoemission; Soft x-ray; Specific heat; Superconductivity; Transport properties; Tunneling; Band structure; Disordered systems; Electronic density of states; Ion neutralization; Knight shift; Magnetic susceptibility; Many-body effects; SP323. SP305-4.

Photoemission; Soft X-ray spectrum; Ag; Cu; Double electron photoexcitation; Ni; 9442. SP305.

Photoemission; Surface density of states; Total energy distribution; Field emission; Metal surface; 14152. SP305-6.

Photoemission; Surface spectroscopy; Chemisorption; Field emission; Ion neutralization; 14978. SP305-7.

Photoemission; Surface states; Adsorption; Energy distribution; 13028. SP305-4.

Photoemission; Surfaces; X-ray photoemission; Chemisorption; ESCA; Field emission; 16454. SP305-8.

Photoemission; Tantalum; Tungsten; Electronic density of states; Fermi energy; Molybdenum; SP323, pp. 53-56. SP305-4.

Photoemission; Tungsten; Ultraviolet photoemission; Adsorption; Chemisorption; CO; Cyclotron resonance; Electron cyclotron resonance; Magnetic field; Microwave discharge; 16016. SP305-8.

Photoemission; Tungsten (W); UV photoemission; Work function; Carbon contamination; Electronic density of states; SP323, pp. 199-203. SP305-4.

Photoemission; Tunneling; Chemisorption; Field emission; Ion neutralization; 14626. SP305-6.

Photoemission; X-ray edge singularities; Asymmetric lineshapes; Photoelectron spectroscopy; 15133. SP305-7.

Photoemission; X-ray emission; Electronic density of states; Ferromagnetism; Iron; Optical reflection; SP323, pp. 47-52. SP305-4.

Photoemission from solids and chemisorbed gases; Ultrahigh vacuum; Ultraviolet source; High resolution electron energy analyzer; Photoelectron spectroscopy; 12519. SP305-4.

Photoetching; Thermal grounding; Transmission line; Cryostat; Laminate; 13278. SP305-5.

Photoexcitation; Photoionization; Photon-scattering; Total; Ultraviolet cross sections; Aeronomics; Astrophysical; Partial; Photoabsorption cross sections; Photodissociation; NSRDS-NBS38. SP305-3.

- Photo-excitation; Photoluminescence; Spectral emission; Spectral radiometry; Standard phosphor samples; Phosphors; *TN417. SP305-1.*
- Photoexcitation; Photoluminescence; Transport data; Diffuse reflectivity;  $\text{LaCrO}_3$ ; Photoconductivity; *14084. SP305-6.*
- Photofission; Bremsstrahlung beam; Cross section; Fission barrier shapes;  $\gamma$ -ray strength; Isomeric fission; Level density; *15350. SP305-7.*
- Photofission; Bremsstrahlung beams; Cross section; Fission barrier shape; Fission isomer; *15313. SP305-7.*
- Photofission; Standard reference materials; Tetracycline; Activation analysis; Ancient stained glass; Carbon; Cockcroft-Walton neutron generator; Coincidence spectrometer; Group separations; Homogeneity testing; Hydrated antimony pentoxide; NBS LINAC; *TN508. SP305-2.*
- Photoflash bulb; Pressure; Pressure transducer response; Thermal transient; Transducer; Calibration; Dynamic, electronic flash; *NBSIR 75-732. SP305-7.*
- Photoflash bulb; Pressure; Pressure measurement; Pressure transducer; Pressure transducer response; Response; Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; *NBSIR 76-1038. SP305-8.*
- Photoflash bulb; Pressure transducer; Protective coatings; Thermal radiant-energy response; Thermal transient response; Transducer; Coatings; *NBSIR 76-1060. SP305-8.*
- Photofragments; Primary processes; Quantum yield; Far ultraviolet photochemistry; Free radicals; Organic compounds; *14619. SP305-6.*
- Photogalvanic cells; Quantum efficiency; Solar energy; Energy levels; Photocatalytic electrodes; Photoelectrolytic cells; *SP455, pp. 221-227 (Nov. 1976). SP305-8.*
- Photogrammetry; Evaluation; Measurement; Metallography; Metallurgical analysis; Microscopy; *11977. SP305-3.*
- Photographic; Spectrographic; Time-resolved; Electrical discharge; Exploding wires; High-speed; *9623. SP305-1.*
- Photographic contrast; Transmission of x-rays; X-ray diffraction; Divergent x-ray beams; Kossel; Kossel sample preparation; *9521. SP305.*
- Photographic density; Technology assessment; Imaging optics; Lens testing; Microcopy resolution charts; National Measurement System; *NBSIR 75-942. SP305-8.*
- Photographic development; Physical development; Printout; Photolysis; Radiographic films; Silver halides; Dosimetry; Gamma rays; Hypersensitization; Internal image; Latensification; *11643. SP305-2.*
- Photographic edges; Transfer function; Acutance; Calibration; Computer programs; Microdensitometry; *NBSIR 75-699. SP305-7.*
- Photographic emulsion; Photographic photometry; Programs; Spectrochemical analysis; Computers; Microphotometry; *11385. SP305-2.*
- Photographic emulsion; Photographic photometry; Photometry; Programs; Spectrochemical analysis; Computers; Emulsion; Microphotometry; *11510. SP305-2.*
- Photographic emulsion; Pit volume; Q-switched ruby laser; Quantitative; Spark excitation; Spectral intensity; Spectrochemical analysis; High energy; High power; Laser probe; Laser vaporization; *10005. SP305-1.*
- Photographic emulsions; Sampson transform; Seidel transform; Spectrochemical analysis; Arrak transform; Baker transform; Emulsion calibration; Kaiser transform; *11384. SP305-2.*
- Photographic emulsions; Silver bromide; 2.8-MeV neutrons; 14.7-MeV neutrons; Chloride; Iodide; Nondestructive neutron activation analysis; *11091. SP305-2.*
- Photographic equipment; Static loads; Test equipment; Compression tests; Dynamic loads; High-speed photography; Indicating instruments; Indicator characteristics; Loading rate; Loads (forces); Motion picture cameras; *12080. SP305-3.*
- Photographic film; Photons; Radiation measurements; Test parameters; Choice of dosimeters; Electrons; Ferrous sulfate dosimeters; Medical applications; Performance criteria; Personnel monitoring; *14095. SP305-6.*
- Photographic film; Radioactive sources; Thermal neutrons; rays; Calibration; Data processing; Evaluation; Gamma ray; Intercomparison; Performance; Personnel dosimetry; Phosphate glass; *10920. SP305-2.*
- Photographic films; Photographic information; Image processing; *13513. SP305-5.*
- Photographic flashbulb; Pressure; Pressure measurement; Pressure transducer; Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; *TN905. SP305-8.*
- Photographic image structure; Photochemical fabrication; *11056. SP305-2.*
- Photographic information; Image processing; Photograph films; *13513. SP305-5.*
- Photographic lenses; Resolution test charts; Resolving power; *SP374. SP305-5.*
- Photographic photometry; Photometry; Programs; Spectrochemical analysis; Computers; Emulsion; Microphotometry; Photographic emulsion; *11510. SP305-2.*
- Photographic photometry; Plasma jet; Preconcentration; Pulse height analyzer; Spectrochemical analysis; Spectroscopy; Standard reference materials; Time-shared computer; X-ray spectroscopy; Analysis; Arc temperature; Atomic absorption spectrometry; *TN401. SP305.*
- Photographic photometry; Programs; Spectrochemical analysis; Computers; Microphotometry; Photographic emulsion; *11385. SP305-2.*
- Photographic standards; Motion picture standards; *1105. SP305-2.*
- Photographs; Preservation of records; Prints; Records; Reproduction of records; Storage of records; Slides; Films; Negative Paper; *C155. SP305-4.*
- Photographs; Wavefront deformation; Interference photographs; *10193. SP305-1.*
- Photography; Camera calibration; Image evaluation; Image effects; Image stability; Interferometry; Lens testing; Light meters; Light sources; *SP300. Volume 10. SP305-5.*
- Photography; Image evaluation; Image manipulation; Image effects; *13534. SP305-5.*
- Photography; Ruby rod; Solid-state laser rods; Holography; *11736. SP305-2.*
- Photography; Standardization; Densitometry; NBS; *990. SP305-1.*
- Photography; Standards; Exposure; *9372. SP305.*
- Photoinduced proton transfer; Ultraviolet spectrum; metastable interactions;  $\text{ClHCl}^-$ ; Emission spectrum;  $\text{HAr}^+$ ;  $\text{HCCl}_4^-$ ;  $\text{HCCl}_4^-$ ;  $\text{HCCl}_4^-$ ; Infrared spectrum; Matrix isolation; Molecular rotation in solid Ar; *15757. SP305-8.*
- Photoionization; Safety color codes; Spectrophotometry; Standards for spectrophotometers; Colorimetry; Keeg Harry J.; *11414. SP305-2.*
- Photoionization; Absorption; Avalanche ionization; Damage morphology; Damage statistics; Distribution of damage time; *SP462, pp. 350-356 (Dec. 1976). SP305-8.*
- Photoionization; Adsorption; Angular distributions; Photoionization; *15748. SP305-8.*
- Photoionization; Alkali metal reactions; Electron attachment; Infrared spectrum; Matrix isolation;  $\text{NO}_2^-$ ; Photodetachment; *13705. SP305-5.*
- Photoionization; Alkyl halides; Ethyl cations; 1,2-hydride shift; Ion-molecule reactions; Ionic structure; *13235. SP305-5.*
- Photoionization; Angular distributions; Chemisorption; Photoemission; *14806. SP305-7.*
- Photoionization; Atomic spectra; Chlorine; Halogens; *147. SP305-7.*
- Photoionization; Bond-dissociation energy;  $\text{N}_2\text{O}$ ;  $\text{N}_2^+$ ; *102. SP305-1.*

- photoionization; Bromine; Hot-bands; Mass spectrometry; Molecular ionization; 12393. **SP305-4.**
- photoionization; Carbon dioxide;  $\text{CO}^+$ ;  $\text{CO}_2^+$ ; Dissociative ionization;  $\text{O}^+$ ; 13859. **SP305-6.**
- photoionization; Cesium; Multiphoton processes; 16298. **SP305-8.**
- photoionization; Charged particle excitation; Inner shells; Ionization; 16299. **SP305-8.**
- photoionization; Cyclohexane; Cyclopropanes; Ion-molecule reactions; Olefins; 15010. **SP305-7.**
- photoionization;  $\text{C}_2\text{D}_2$ ;  $\text{C}_2\text{H}_2^+$ ;  $\text{C}_2\text{D}_2^+$ ;  $\text{C}_2\text{H}^+$ ; Mass spectrometer; Monochromator; 9589. **SP305-1.**
- photoionization; Drift tube; Ion mobility; Oxygen negative ion;  $\text{O}_2^-$ ; Photodetachment; 11482. **SP305-2.**
- photoionization; Electron avalanche; Laser-induced gas breakdown; *SP435*, pp. 347-355 (Apr. 1976). **SP305-8.**
- photoionization; Heats of formation; Ionization thresholds; Mass spectrometry; Metal alkyls; 12448. **SP305-4.**
- photoionization; Ion clusters; Ion-molecule reactions; Ionosphere; Martian atmosphere; Mass spectrometry; 14483. **SP305-6.**
- photoionization; Ionization energy; Ion pair process; 9194. **SP305.**
- photoionization; Overlapping resonances; Resonances; Resonant scattering; Autoionization; Configuration interaction; Electron scattering; 11226. **SP305-2.**
- photoionization; Photoelectron spectroscopy;  $\text{D}_2\text{O}$ ; Franck-Condon principle; Geometry;  $\text{H}_2\text{O}$ ; Ion; *J73A No. 3*, 313-319 (1969). **SP305-1.**
- photoionization; Photolysis; Cycloalkanes; Cyclopentane; Free radical reactions; Ion molecule reactions; 9681. **SP305-1.**
- photoionization; Photolysis; Hydrocarbons; Ion-molecule reaction; Isopentane; 9391. **SP305.**
- photoionization; Photolysis; Primary processes; Free radical reactions; Ion-molecule reactions; Isobutane; 10488. **SP305-1.**
- photoionization; Photolysis; Primary processes; Superexcited molecules; Alkanes; Free radical reaction; Ion-molecule reactions; 10728. **SP305-1.**
- photoionization; Photolysis; Propylene;  $\text{H}_2$ -transfer reactions; Hydrocarbons; Ion-molecule reaction; 9749. **SP305-1.**
- photoionization; Photolysis; Quantum yields; Energy partitioning; Energy transfer; Excited states; Fluorescence; 13000. **SP305-4.**
- photoionization; Photolysis; Radiolysis; Butene; Cyclobutane; Ion structure; Isomerization; Methylcyclopropane; *J75A No. 6*, 591-605 (1971). **SP305-3.**
- photoionization; Photolysis; Superexcited molecules; Cyclohexane; Free radicals; Ions; 10823. **SP305-1.**
- photoionization; Photolysis; Unimolecular-dissociation; Cyclohexene; Ion-molecule reactions; 11901. **SP305-3.**
- photoionization; Photon; Atoms; Compilation; Cross section data; Photoabsorption; 12210. **SP305-3.**
- photoionization; Photon-scattering; Total; Ultraviolet cross sections; Aeronomics; Astrophysical; Partial; Photoabsorption cross sections; Photodissociation; Photoexcitation; *NSRDS-NBS38*. **SP305-3.**
- photoionization; Polymerization; Radiolysis; Ion-molecule reactions; Isobutene; 13002. **SP305-4.**
- photoionization; Predissociation; Rydberg states; Ammonia; Appearance potential; Autoionization; Deuterated species; Enthalpy of formation; Ionization potential;  $\text{NH}_4^+$ ;  $\text{OH}^+$ ; 16539. **SP305-8.**
- photoionization; Propane; Propane- $d_2$ ; Propane- $d_4$ ; Propane- $d_6$ ; Threshold photoelectron spectroscopy; Coincidence; Mass spectrometry; 16590. **SP305-8.**
- photoionization; Propane; Quantum yields; Rare-gas resonance radiation; Unimolecular dissociation; Ion-molecule reaction; *J75A No. 6*, 607-612 (1971). **SP305-3.**
- Photoionization; Propane; Radiation chemistry; Ion-molecule reaction; Kinetics; Mass spectrometry; 12175. **SP305-3.**
- Photoionization; Proton affinity; Radiolysis; Gas-phase kinetics; Ion-molecule reactions; Mass spectrometry; *J76A No. 6*, 655-659 (1972). **SP305-4.**
- Photoionization; Proton affinity; Rate constants; Ion molecule reactions; Mass spectrometry; Neopentane; *J75A No. 5*, 487-493 (1971). **SP305-3.**
- Photoionization; Proton transfer; Water; Hydrocarbons; Ion-molecule reactions; Mass spectrometry; 11927. **SP305-3.**
- Photoionization; Proton transfer reactions; Cycloalkanes; Ion-molecule reactions; Isomerization; Mass spectrometry; 13176. **SP305-5.**
- Photoionization; Protonated dimer ions; Alkane dimer ions; Ethane; Ion-molecule reactions; Mass spectrometry; 11830. **SP305-3.**
- Photoionization; Quantum yields; Ion-molecule reaction; Ion pair yield; Methane; Photochemistry; *J77A No. 1*, 101-107 (1973). **SP305-5.**
- Photoionization; Quantum-mechanical; Atomic; Inner shell; 15079. **SP305-7.**
- Photoionization; Quasiequilibrium theory; Appearance potential; Benzene; 13464. **SP305-5.**
- Photoionization; Radicals; Rydberg levels; Vacuum monochromators; Autoionization; Electronic; Excited states;  $\text{H}_2\text{O}^+$ ;  $\text{NH}_4^+$ ;  $\text{NH}_2^+$ ;  $\text{OH}^+$  ions; Heats of formation; *J70A6-417*, 459-463 (1966). **SP305.**
- Photoionization; Radicals; Rydberg series; Vacuum ultraviolet; Autoionization;  $\text{CO}$ ;  $\text{COS}$ ;  $\text{CS}_2$ ; Electronic; Excited states; Heats of formation; Ionization thresholds; Ions; Mass spectrometry;  $\text{O}_2$ ; 10274. **SP305-1.**
- Photoionization; Radicals; Vacuum ultraviolet; Enthalpy of formation; Ions; Mass spectrometry; Methyl; Methylene; 15351. **SP305-7.**
- Photoionization; Radiolysis; Rate constants; Theory; Hydrocarbons; Ion-molecule reactions; 11853. **SP305-3.**
- Photoionization; Radiolysis; Rate constants; Alkyl halides; Ion-molecule reactions; Mass spectrometry; 14465. **SP305-6.**
- Photoionization; Radiolysis; Rate constants;  $\text{CO}$ ;  $\text{CO}_2$ ; Ion-molecule reactions;  $\text{O}_2$ ; *J78A No. 3*, 315-322 (1974). **SP305-6.**
- Photoionization; Radiolysis; Unimolecular ion fragmentation; Deactivation; Ion-molecule reactions; 11905. **SP305-3.**
- Photoionization; Rare gases; Angular distribution; Asymmetry; 15299. **SP305-7.**
- Photoionization; Rare gases; Resonance lamps; Saturation ion current; Aluminum window; Extinction coefficients; Ionization quantum yield; Photochemistry; *TN496*. **SP305-1.**
- Photoionization; Rare-earth; Review; Spectroscopy; Transition probabilities; Atomic spectra; Cross section;  $f$ -values; Molecular spectra; 12683. **SP305-4.**
- Photoionization; Rate coefficient; Vapor phase; Alkanes; Ion-molecule reactions; Mass spectrometry; 13003. **SP305-4.**
- Photoionization; Rate constants; Alkanes; Excited states; Ion-molecule reactions; Mass spectrometry; 11829. **SP305-3.**
- Photoionization; Rate constants; Amines; Collisional stabilization; Ionization energy effect; Mass spectrometry; 14463. **SP305-6.**
- Photoionization; Rate constants; Fluorocarbons; Heats of formation; Ion-molecule reactions; Mass spectrometry; *J78A No. 2*, 151-156 (1974). **SP305-6.**
- Photoionization; Rate constants; Gas phase; Hydrocarbons; Ion-molecule reactions; Mass spectrometry; *J75A No. 3*, 147-153 (1971). **SP305-3.**
- Photoionization; Rate constants; Gas phase; Hydrocarbons; Kinetics; Mass spectrometry; 15850. **SP305-8.**
- Photoionization; Rate constants; Reaction mechanisms; Vinyl halides; Ion-molecule reactions; Mass spectrometry; 14844. **SP305-7.**

- Photoionization; Rate constants; Structures of ions; Collisional stabilization; Hydrocarbons; Ion-molecule reactions; *J.76A No. 3, 253-262 (1972). SP305-4.*
- Photoionization; Rate constants; Thermal energy; Vibrational energy; Ammonia; Mass spectrometry; *12999. SP305-4.*
- Photoionization; Rate constants; Vapor phase;  $C_4H_8$  isomers; Collisional stabilization; Isomerization; *J.76A No. 2, 115-124 (1972). SP305-4.*
- Photoionization; Reaction kinetics; Thermodynamic; Absorption and emission spectroscopy; Far (vacuum) ultraviolet; Ion-molecule reactions; Matrix isolation; Photochemistry; *13177. SP305-5.*
- Photoionization; Reaction kinetics; Vapor phase; Cyclobutane; Ion-molecule reactions; Mass spectrometry; *11603. SP305-2.*
- Photoionization; Resonance profile; Autoionization; Cross section; Fano parameters; Helium; *13479. SP305-5.*
- Photoionization; Resonances; Xenon; Autoionization; Far ultraviolet; Krypton; *J.76A No. 1, 1-12 (1972). SP305-4.*
- Photoionization; Resonances; Xenon; Autoionization; Far ultraviolet; Krypton; *12691. SP305-4.*
- Photoionization; Review; Scattering; Spin-polarization; Electron; Experiment; LEED; Multi-photon; *15900. SP305-8.*
- Photoionization; Rotational energy; Enthalpy of formation; Ketene; Methane; Methyl; Methylene; *16060. SP305-8.*
- Photoionization; Rydberg; Threshold energies; Autoionization; 1,2-deuterioethylene; Ethylene; Mass spectra; *9281. SP305.*
- Photoionization; Rydberg levels; Sulfurhexafluoride; Threshold energy; Electronically excited state; Mass spectrometer; *9683. SP305-1.*
- Photoionization; Rydberg levels; Vacuum uv monochromator; Autoionization;  $BCN$ ;  $C_2N_2$ ;  $CICN$ ;  $FCN$ ; Heats of formation;  $ICN$ ; Mass spectrometer; *10338. SP305-1.*
- Photoionization; Rydberg series; Absorption spectrum; Extreme ultraviolet; *9636. SP305-1.*
- Photoionization; Rydberg series; Autoionization; Mass spectrometry; Nitric oxide; *10011. SP305-1.*
- Photoionization; Rydberg series; Vacuum ultraviolet; Franck-Condon factors; Mass spectrometry; *12393. SP305-5.*
- Photoionization; Single electron; Hartree-Fock methods; Oscillator strength; *16378. SP305-8.*
- Photoionization;  $SO_2$ ; Vacuum ultraviolet; Dissociation; Heats of formation;  $H_2S$ ; Ionization; Mass spectrometer; *10903. SP305-2.*
- Photoionization; Spectroscopy; Bond angle; Bond length; Franck-Condon factors;  $H_2O$ ;  $NH_3$  ion; Photoelectron; *10845. SP305-1.*
- Photoionization; Spectroscopy;  $C_2H_2$ ; Franck-Condon principle;  $H_2O$ ;  $NH_3$ ;  $N_2O$ ; Photoelectrons; *12118. SP305-3.*
- Photoionization; Standing waves; 2p shell; Close-coupling; Core relaxation; Multi-channel; Neon; *9781. SP305-1.*
- Photoionization; Superexcited molecule; Butane; Ionization efficiency; Ion-molecule reactions; Ion-pair yields; *9272. SP305.*
- Photoionization; Surfaces; Angular distributions; Chemisorption; Photoemission; *14233. SP305-6.*
- Photoionization; Surfaces; Angular distributions; Chemisorption; Photoemission; *14981. SP305-7.*
- Photoionization; Swan bands; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Acetylene;  $C_2$  radical;  $C_2^-$  ion; Cesium; Electron affinity; Matrix isolation; *11405. SP305-2.*
- Photoionization; Threshold; Ultraviolet; Vacuum; Dissociation; Fragment ions; Ionization; Mass spectrometer; Molecule;  $NO_2$ ;  $NO_2^+$ ;  $N_2O^+$ ; *J.71A5-467, 371-378 (1967). SP305.*
- Photoionization; Threshold energies; Water; Ammonia; Dissociative photoionization;  $NH_4^+$ ;  $OH^+$ ; *15352. SP305-7.*
- Photoionization; Transition; Vibrational; Acetylene probability; Franck-Condon factors; *10027. SP305-1.*
- Photoionization; Trans-2-butene; Cis-2-butene; Ethylene; Hydrocarbons; *10351. SP305-1.*
- Photoionization; Ultraviolet; Diatomic molecule; Interference; *9293. SP305.*
- Photoionization; Unimolecular reactions; Energy transfer; Hydrocarbons; Ionic fragmentation; Mass spectra; *14491. SP305-6.*
- Photoionization; Vacuum ultraviolet; Acetonitrile; Cyanoacetylene;  $C_2H$ ; Heat of formation; Photodissociation; *13748. SP305-5.*
- Photoionization; Vacuum ultraviolet; Chlorine monofluoride; Dissociative ionization; Fluorine; Heats of formation; Hydrogen fluoride; Ion pairs; Mass spectrometry; Molecular ionization; *12390. SP305-4.*
- Photoionization; Vacuum ultraviolet; Dissociation energy; Fluorine; Mass spectrometry; *12391. SP305-4.*
- Photoionization; Vacuum ultraviolet photolysis;  $CCl_4$ ; Chloroform; Electron attachment;  $HCCl_2^+$ ;  $HCCl_2^-$ ;  $HCCl_3^-$ ; Infrared spectrum; Matrix isolation; *12242. SP305-3.*
- Photoionization; Vacuum ultraviolet; Chlorine monofluoride; Dissociation energy; Ionization energy; Mass spectrometry; *12064. SP305-3.*
- Photoionization; Vacuum ultraviolet; Chlorine monofluoride; Dissociative ionization; Fluorine; Heats of formation; Hydrogen fluoride; Ion pairs; Mass spectrometry; Molecular ionization; *12148. SP305-3.*
- Photoionization; Vacuum ultraviolet; Xenon; Atomic spectra; Krypton; *9208. SP305.*
- Photoionization; Vacuum ultraviolet;  $CF_4$ ;  $C_2F_6$ ;  $C_3F_8$ ;  $C_4F_{10}$ ;  $CF_3H$ ;  $CF_3Cl$ ;  $CF_3Br$ ;  $CF_3I$ ; Heats of formation; *J.72A No. 2, 479-485 (1968). SP305-1.*
- Photoionization; Vacuum ultraviolet; Cyclopentene; Ion-molecule reactions; Mass spectrometry; Methyl cyclopentene; *14488. SP305-6.*
- Photoionization; Vacuum ultraviolet;  $BF_3$ ; Bond energies;  $B_2F_4$ ; Heats of formation; Ionization; Mass spectra; *10901. SP305-2.*
- Photoionization; Vacuum ultraviolet; Absorption cross-section; Absorption spectra; Argon; *11065. SP305-2.*
- Photoionization; Vacuum ultraviolet; Xenon; Cross section; Inner-shell excitation; Krypton; *16541. SP305-8.*
- Photoionization; Vacuum uv; Bond dissociation energy; Fluorine; Heats of formation; Hydrogen fluoride; Ionization thresholds; Mass spectra; *12392. SP305-4.*
- Photoionization; Vacuum-ultraviolet photolysis; Alkali metal atoms; Electron bombardment; Infrared spectrum; Matrix isolation; Nitrite anion; Nitrogen dioxide; Photodetachment; *11697. SP305-2.*
- Photoionization; Xenon; M-shell; *10477. SP305-1.*
- Photoionization coefficient; Rydberg spectrum; SCF calculations; Vacuum UV spectrum; Formaldehyde; Integrated oscillator strength; *12505. SP305-4.*
- Photoionization cross section; Resonance profiles; UV absorption spectroscopy; Autoionization; Configuration interaction; Inner shell excitation; *13741. SP305-5.*
- Photoionization cross section; Soft x-rays; Central potential model; Photoabsorption cross section; *10395. SP305-1.*
- Photoionization of hydrocarbons; Radiolysis and photoionization of hydrocarbons; Analysis of neutral products; Ion-molecule reactions; Neutral products; *9545. SP305-1.*
- Photoionization of small molecules; Small molecules; Ultraviolet monochromator; Windowless vacuum; Mass spectrometer; Mass spectrometric study; *9676. SP305-1.*
- Photoionization radiolysis; Ion clustering; Ion-molecule reactions; Mass spectrometry; Nitrous oxide; *14482. SP305-6.*
- Photoionization resonances; Photon absorption; Atomic energy levels; Atomic spectra; Autoionization; Electron scattering; Fine structure; Helium; *J. Phys. Chem. Ref. Data 2, No. 2, 257-265 (1973). SP305-6.*
- Photoionization resonances; Sodium; Far ultraviolet spectroscopy; Ion absorption spectrum; Ion photoionization; Laser ionization; *16415. SP305-8.*
- Photoionization source; Monochromatic electrons; *1421. SP305-6.*



- photolithography; Photomask; Semiconductor technology; Integrated circuits; Microelectronics; Micrometrology; *SP400-20. SP305-7.*
- photolithography; Process control; Reliability; Semiconductor devices; Silicon; Wire bonding; Die bonding; Hermeticity; Integrated circuits; Measurement methods; Microelectronics; Oxides; *SP400-3. SP305-6.*
- photoluminescence;  $\text{Cr}^{3+}$ ; Energy transfer; Excitation; Lifetime; *12318. SP305-3.*
- photoluminescence; Silicon doping; Amphoteric compensation; Band tailing; Coulomb potential screening; Gallium arsenide; *12877. SP305-4.*
- photoluminescence; Spectral emission; Spectral radiometry; Standard phosphor samples; Phosphors; Photo-excitation; *TN417. SP305-1.*
- photoluminescence; Strontium titanate; Visible emission; Energy transfer; Infrared emission; Lattice phonons; *10965. SP305-2.*
- photoluminescence; Temperature dependence; Band-to-band recombination; Concentration dependence; Excitation dependence; Gallium arsenide; Impurity effects; *12216. SP305-3.*
- photoluminescence; Temperature dependence; Band tailing; Gallium arsenide; Indirect valleys; *n*-type gallium arsenide; *12343. SP305-3.*
- photoluminescence; Transport data; Diffuse reflectivity;  $\text{LaCrO}_3$ ; Photoconductivity; Photoexcitation; *14084. SP305-6.*
- photolysis; Abstraction; Isobutane- $d_4$ ; Ketene; Methylene; *9322. SP305.*
- photolysis; Alkyl radicals; Deactivation; Ethyl iodide; "hot" radicals; Hydrogen abstraction; *10267. SP305-1.*
- photolysis;  $\text{CF}_2$ ;  $\text{CF}_3$ ; Cyanogen azide; Difluorocyanamide; F atom reaction;  $\text{F}_2$  reaction;  $\text{FNCN}$ ; Infrared spectrum; Isotopic substitution; Matrix isolation;  $\text{NCN}$  reaction; *11231. SP305-2.*
- photolysis; Cycloalkanes; Cyclopentane; Free radical reactions; Ion molecule reactions; Photoionization; *9681. SP305-1.*
- photolysis; D-atom; H-atom; Hot methyl radicals; Methyl iodide; *10495. SP305-1.*
- photolysis; Energy transfer; Fluorescence; Hydrazoic acid; Nitrous oxide; *9418. SP305.*
- photolysis; Hydrocarbons; Ion-molecule reaction; Isopentane; Photoionization; *9391. SP305.*
- photolysis; Polymerization; Radiolysis; Ethylene; Free radical reactions; Ion-molecule reactions; *J.75A No. 3, 141-146 (1971). SP305-3.*
- photolysis; Primary dissociations; Propane; Solid phase; Free radicals; *10007. SP305-1.*
- photolysis; Primary processes; Free radical reactions; Ion-molecule reactions; Isobutane; Photoionization; *10488. SP305-1.*
- photolysis; Primary processes; Quantum yields; Acetone; Far ultraviolet; *14353. SP305-6.*
- photolysis; Primary processes; Radiolysis; Ion-molecule reactions; Ion pair yields; Pentanone; *10049. SP305-1.*
- photolysis; Primary processes; Superexcited molecules; Alkanes; Free radical reaction; Ion-molecule reactions; Photoionization; *10728. SP305-1.*
- photolysis; Primary processes; Vacuum ultraviolet; Ethane; Free radicals; Ions; *11904. SP305-3.*
- photolysis; Propane; *i*-butane; Insertion; Ketene; Methane; Methylene; *N*-butane; *10170. SP305-1.*
- photolysis; Propane; Radical scavenger; Radiolysis; Free radicals;  $\text{H}_2\text{S}$ ; Ion-molecule reactions; *9544. SP305-1.*
- photolysis; Propane chain decomposition; Vacuum ultraviolet; *9878. SP305-1.*
- photolysis; Propylene;  $\text{H}_2$ -transfer reactions; Hydrocarbons; Ion-molecule reaction; Photoionization; *9749. SP305-1.*
- photolysis; Propylene; Vacuum ultraviolet; *10795. SP305-1.*
- Photolysis; Quantum yield; Radiolysis; Vinyl chloride; Vinyl radical; Gas phase; *J.77A No. 2, 243-248 (1973). SP305-5.*
- Photolysis; Quantum yields; C-atoms; Collisional deactivation; Free radical reactions; Methane; *13172. SP305-5.*
- Photolysis; Quantum yields; Deactivation; Insertion reaction; Lifetime; Methane; Methylene; *12996. SP305-4.*
- Photolysis; Quantum yields; Energy partitioning; Energy transfer; Excited states; Fluorescence; Photoionization; *13000. SP305-4.*
- Photolysis; Radical; Doublet; Infrared; Isotope; Matrix; *10500. SP305-1.*
- Photolysis; Radiographic films; Silver halides; Dosimetry; Gamma rays; Hyperp sensitization; Internal image; Latensification; Photographic development; Physical development; Printout; *11643. SP305-2.*
- Photolysis; Radiolysis; Butene; Cyclobutane; Ion structure; Isomerization; Methycyclopropane; Photoionization; *J. 75A No. 6, 591-605 (1971). SP305-3.*
- Photolysis; Radiolysis; Cyclopropane; Free radical reactions; Ion-molecule reactions; *11112. SP305-2.*
- Photolysis; Radiolysis; Free radicals; Ion-molecules reactions; Neopentane; *9180. SP305.*
- Photolysis; Radiolysis; Free radical reactions; Ion-molecule reactions; *9748. SP305-1.*
- Photolysis; Rare gas; Charge transfer; Ion-molecule reactions; Methane; *11095. SP305-2.*
- Photolysis; Rotation; Spectrum; Ultraviolet; Vacuum ultraviolet; Free radical; Infrared; Matrix isolation; Methyl; Methylene; *10404. SP305-1.*
- Photolysis;  $\text{SiCl}_2$  free radical; Ultraviolet spectrum; Dichlorosilane; Dichlorosilane- $d_4$ ; Force constants; Infrared spectrum; Matrix isolation; *11232. SP305-2.*
- Photolysis;  $\text{SiCl}_3$ ; Trichlorosilane; Ultraviolet spectrum; Force constants; Free radical; Infrared spectrum; Matrix isolation; *11003. SP305-2.*
- Photolysis; Solid phase; Vacuum ultraviolet; Carbene; Ethylene; Ethylene; Gas phase; *9415. SP305.*
- Photolysis; Superexcited molecules; Cyclohexane; Free radicals; Ions; Photoionization; *10823. SP305-1.*
- Photolysis; Thermodynamic properties; C atom reactions; Cyanogen azide; Electronic spectrum; Force constants;  $\text{HCCl}$  free radical;  $\text{HCl}$  reaction; Infrared spectrum; Matrix isolation; Monochlorocarbodiimide; Monochlorocyanamide;  $\text{NCN}$  reactions; *10275. SP305-1.*
- Photolysis; Thermodynamic properties;  $\text{C}\equiv\text{N}$  bond; Infrared spectrum; Isotopic substitution; Matrix isolation; Methyl azide; Methyleneimine; Normal coordinate analysis; *15110. SP305-7.*
- Photolysis; Triplet state; Vapor phase; Aldehyde; Energy transfer; *9385. SP305.*
- Photolysis; Ultraviolet spectrum; Alkali metal reactions; Cage effect; Flash photolysis; Free radicals; Infrared spectrum; Matrix isolation; Molecular ions; Molecular orbitals; *12748. SP305-4.*
- Photolysis; Ultraviolet spectrum; Absorption;  $\text{DCO}$ ; Emission; Force constants; Formaldehyde; Free radical;  $\text{HCO}$ ; Hydrocarbon flame bands; Infrared spectrum; Matrix isolation; *11404. SP305-2.*
- Photolysis; Ultraviolet spectrum;  $\text{ClCF}$ ; Chlorofluoromethane; Chlorofluoromethane- $d_2$ ; Fluorescence spectrum; Free radical; Infrared spectrum; Matrix isolation; *12219. SP305-3.*
- Photolysis; Ultraviolet spectrum;  $\text{CCl}$ ;  $\text{CCl}_2$ ; Force constants; Free radical;  $\text{HCCl}$ ;  $\text{HCCl}_2$ ;  $\text{H}_2\text{CCl}$ ; Infrared spectrum; Matrix isolation; *11964. SP305-3.*
- Photolysis; Ultraviolet spectrum;  $\text{CF}_3\text{NF}$ ;  $\text{CF}_3\text{NF}_2$ ; F atom reaction;  $\text{FCN}$ ;  $\text{F}_2\text{CN}$ ;  $\text{FCN}_2$ ; Free radical; Infrared spectrum; Matrix isolation; *11002. SP305-2.*
- Photolysis; Ultraviolet spectrum; Free radicals; Infrared spectrum; Matrix isolation; Molecular ions; *13706. SP305-5.*

- Photolysis; Unimolecular-dissociation; Cyclohexene; Ion-molecule reactions; Photoionization; *11901. SP305-3.*
- Photolysis; Vacuum ultraviolet; Chain reaction; N-butane; N-butane- $d_{10}$ ; *11062. SP305-2.*
- Photolysis; Vacuum ultraviolet; Energy transfer; Excited species; Fluorescence; Gas phase;  $N_2O$ ; *10208. SP305-1.*
- Photolysis; Vacuum ultraviolet; Insertion; Isobutane; Isobutylidene; *9414. SP305.*
- Photolysis; Vacuum ultraviolet; Fluorescence; Hydrazoic acid;  $NH$ ; *9417. SP305.*
- Photolysis; 2-methylbutane; Condensed phase radiolysis; Ionization; *10426. SP305-1.*
- Photolysis, thermodynamic properties; Ultraviolet spectrum;  $^{12}CF_2$ ;  $^{13}CF_2$ ;  $^{12}CF_3$ ;  $^{13}CF_3$ ; C atom reaction; F atom reaction;  $F_2$  reaction; Force constants; Free radical; Infrared spectrum; *10587. SP305-1.*
- Photomagnetolectric effect; Recombination of excess carriers; Semiconductors; Surface photovoltage; Bibliography; Diffusion length; Diode recovery; Excess carrier lifetime; Measurement methods; Photoconductive decay; Photoconductivity; *TN465. SP305-1.*
- Photomagnetolectric effect; Silicon; Surface photovoltage; Carrier lifetime; Diode recovery time; Germanium; Photoconductive decay; *10584. SP305-1.*
- Photomask; Semiconductor technology; Integrated circuits; Microelectronics; Micrometrology; Photolithography; *SP400-20. SP305-7.*
- Photomask inspection; Photomasks; Photoplate quality; Automated inspection of photomasks; Critical dimension determination; Defects; Detection of visual defects; Integrated circuit photomasks; *15039. SP305-7.*
- Photomask inspection; Resistivity; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; *SP400-17. SP305-7.*
- Photomask metrology; Pull test; Resistivity; Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Shear test; Sheet resistors; Silicon; *SP400-19. SP305-8.*
- Photomasks; Photoplate quality; Automated inspection of photomasks; Critical dimension determination; Defects; Detection of visual defects; Integrated circuit photomasks; Photomask inspection; *15039. SP305-7.*
- Photomasks; Photoresist; Platinum wire resistivity; Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; Test patterns; Thermal response; *SP400-4. SP305-6.*
- Photomasks; Photoresist; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; *SP400-1. SP305-6.*
- Photomasks; Photoresist; Resistivity; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; *SP400-8. SP305-7.*
- Photomasks; Scanning electron microscope; Dimensional metrology; Integrated circuits; Line-width measurements; Microelectronics; Optical microscope; *15864. SP305-8.*
- Photometers; Photometry; Phototubes; Spectral correction of phototubes; Filters; Photocells; *10117. SP305-1.*
- Photometric accuracy; Photometry; Total luminous flux; Illuminance distribution; Integrating sphere; Lamp comparisons; *TN594-7. SP305-6.*
- Photometric accuracy; Radiation addition method; Nonlinearity; Photocell linearity; *SP378, pp. 63-79. SP305-5.*
- Photometric accuracy; Radiation addition method; Nonlinearity; Photocell linearity; *J.76A No. 5, 437-453 (1972). SP305-4.*
- Photometric accuracy; Standards, spectrophotometric; *SP378 pp. 135-136. SP305-5.*
- Photometric accuracy; Standards, spectrophotometric; *J.76/No. 5, 509-510 (1972). SP305-4.*
- Photometric brightness; Photometry; Reflectance; Transmittance; Luminance; Luminous flux; Luminous intensity; *9549. SP305-1.*
- Photometric colorimetry; Spectrometric colorimetry; Automatic-computer program; Colorimetry; Computer program; Ellipses; *9964. SP305-1.*
- Photometric distance; Photometry; Signal lighting; Critical distance; Illumination; Light projectors; *9682. SP305-1.*
- Photometric linearity; Polarization; Sample characteristics; Straylight; Wavelength accuracy; Bandwidth; Calibration; Errors in spectrophotometry; Interferences; Multiple reflection; *J. Res. 80A No. 4, 609-624 (1976). SP305-8.*
- Photometric measurements; Static tests; Airport approach threshold lights; Glass prism; Impact tests; Light bases; Optical cover assembly; *NBSIR 75-647. SP305-7.*
- Photometric precision; Reference spectrophotometer; Ultraviolet; Wavelength calibration; Averaging spheres; High accuracy transmittance; Light averaging devices; Linearity; *TN913. SP305-8.*
- Photometric scale; Slit width; Spectral transmission; Spectrophotometer standards; Stray light; Wavelength scale; Errors in spectrophotometry; *J. Res. 80A No. 4, 625-63 (1976). SP305-8.*
- Photometric testing; Safety standards; Federal Motor Vehicle Safety Standards; Interlaboratory test evaluation; Motor vehicles; *TN821. SP305-6.*
- Photometric tests; Spectral reflectance; Spectral transmittance variation; Vehicle glazing materials; Automobile paint colors; Automobile windshield color; *NBSIR 7-519. SP305-6.*
- Photometry; Instrumentation; Lamp orientation; Lamp power circuitry; Lamp stability; Photodetector amplifier; *TN594-4. SP305-4.*
- Photometry; Integrating sphere; *J.77A No. 3, 343-351 (1973). SP305-5.*
- Photometry; Interlaboratory test; Photodiode detectors; *1548. SP305-7.*
- Photometry; Phototherapy; Pollution; Radiometry; Remote sensing; Agriculture; Clinical analysis; Economic impact; Energy crisis; Meteorology; *TN594-4. SP305-5.*
- Photometry; Phototubes; Spectral correction of phototubes; Filters; Photocells; Photometers; *10117. SP305-1.*
- Photometry; Physical optics; Radiometry; Spectrometry; Spectroradiometry; Analytical chemistry; Nomenclature; Photochemistry; *16331. SP305-8.*
- Photometry; Physiological optics; Psychophysics; Scaling color; Color; Gloss; Light; Perception of color; *9336. SP305.*
- Photometry; Pollution monitoring; Radiometry; Remote sensing; Safety; Energy crisis; Health; Meteorology; *1467. SP305-6.*
- Photometry; Professional societies; Radiometry; Standard measurement system; *TN594-6. SP305-6.*
- Photometry; Programs; Spectrochemical analysis; Computer Emulsion; Microphotometry; Photographic emulsion; Photographic photometry; *11510. SP305-2.*
- Photometry; Projectors; Radiance; Radiometry; Reflectometer; Emissivity; Flashing light; Flux measurement; Irradiance; Material properties; *SP300. Vol. 7. SP305-3.*

- Photometry; Radiance; High-speed measurements; Optical attenuator; *J.75C No. 2, 85-88 (1971). SP305-3.*
- Photometry; Radiance modulation; Radiation; High-speed methods; Light attenuator; *J.75C No. 1, 29-32 (1971). SP305-3.*
- Photometry; Radiation transfer; Reflectance; Scattering; Spectrophotometry; Transmittance; Accuracy; Appearance; Colorimetry; Definition of spectrophotometry; Error analysis; *TN594-9. SP305-6.*
- Photometry; Radiometry; Reflectance; Symbols in reflectometry; Terms in reflectometry; Definitions in reflectometry; *9823. SP305-1.*
- Photometry; Radiometry; Reflectance; Reflectometry; *15863. SP305-8.*
- Photometry; Radiometry; Scalar diffraction theory; Diffraction; Diffraction losses; Fresnel diffraction; Kirchhoff diffraction theory; *TN594-8. SP305-6.*
- Photometry; Radiometry; Selenium; Silicon; Stability; Temperature dependence; Fatigue; Light memory; Photocells; Photodiodes; *TN594-5. SP305-5.*
- Photometry; Radiometry; Spectroradiometry; Optical radiation measurement; *TN910-1. SP305-8.*
- Photometry; Radiometry; Terminology; Geometrical radiative transfer; Nomenclature; Optical radiation; Fluometry; *13255. SP305-5.*
- Photometry; Reflectance; Scattering; Spectrophotometry; Specular gloss; Accuracy; Appearance; Error analysis; Gloss; *TN594-10. SP305-7.*
- Photometry; Reflectance; Transmittance; Luminance; Luminous flux; Luminous intensity; Photometric brightness; *9549. SP305-1.*
- Photometry; Review; Colorimetry; *14571. SP305-6.*
- Photometry; SI basic unit; Candela; Lumen; Luminous flux; Luminous intensity; *16397. SP305-8.*
- Photometry; Signal lighting; Critical distance; Illumination; Light projectors; Photometric distance; *9682. SP305-1.*
- Photometry; Spectral emissivity; Standard; Ceramic; Light; *TN595. SP305-3.*
- Photometry; Spectrophotometry; Averaging spheres; Diffusing effectiveness; Efficiency; Flux averaging; *15126. SP305-7.*
- Photometry; Spectrophotometry; Ultraviolet; Visible; Averaging sphere; Diffusing effectiveness; Efficiency; Fluorescent wavelength converter; *16333. SP305-8.*
- Photometry; Spectroradiometry; Barnes colorimeter; Chromaticity coordinate; Color correction; Cool white fluorescent lamp; Correlated color temperature; Daylight fluorescent lamp; Heterochromatic photometry; Integrating sphere; Intercomparison; *TN559. SP305-3.*
- Photometry; Total luminous flux; Illuminance distribution; Integrating sphere; Lamp comparisons; Photometric accuracy; *TN594-7. SP305-6.*
- Photometry; Uncertainty; Calibration procedures; Color temperatures; Luminous flux; Luminous intensity; *TN594-3. SP305-4.*
- Photometry; Zodiacal light; *11098. SP305-2.*
- Photometry, heterochromatic; Radiometric measurements; CIE photometric model; *16002. SP305-8.*
- Photometry of retroreflective materials; Retroreflective sign materials; Colorimetry; Highway signs; Photoelectric tristimulus colorimeters; *15117. SP305-7.*
- Photometry of retroreflective materials; Retroreflective sign materials; Colorimetry; Highway signs; Photoelectric tristimulus colorimeters; *NBSIR 74-518. SP305-8.*
- Photomicrography; Reflectometry; Sulfur dioxide; Thermoelectric heat pump; Water vapor condensation; Accelerated corrosion; Atmospheric corrosion; Corrosion mechanisms; Humidity cabinet; Laboratory corrosion apparatus; *9990. SP305-1.*
- Photomicrography; Scanning electron microscope; X-ray microscopy; Color photography; Metallography; Petrography; *J.73A No. 2, 113-123 (1969). SP305-1.*
- Photomicrography; Scanning electron microscope; Strain effects; Iron-silicon alloys; Lorentz force; Magnetic domains; *15037. SP305-7.*
- Photomultiplier; Pulse; Time-of-flight; After-pulse; Gamma flash; Neutron; *12741. SP305-4.*
- Photomultiplier; Pulse suppression; Scintillator; After-pulse; Detector; Gamma-flash; *SP425, pp. 106-107. SP305-7.*
- Photomultiplier; Resolution; Suppression; After-pulse; GaP first dynode; Neutron; Photoelectron; *14843. SP305-7.*
- Photomultiplier nonlinearity; Spectrophotometry; Double-aperture method; Light addition; Nonlinearity correction; *13044. SP305-4.*
- Photomultiplier tube; Saturation; Fluorescence; Light flux; Optical power limiter; *9654. SP305-1.*
- Photomultiplier tubes; Phototubes; Photodetector; Photodetector spectral response; *14804. SP305-7.*
- Photomultipliers; Signal noise ratio; Statistical properties; Time intervals; Noise, signal; *9232. SP305.*
- Photon; Atoms; Complication; Cross section data; Photoabsorption; Photoionization; *12210. SP305-3.*
- Photon; Plasma frequency; Absorption cross section; Index of refraction; Nuclear matter; Optical properties; *J. Res. 80A No. 1, 9-13 (1976). SP305-8.*
- Photon; Positron; Atom; Collision cross section; Detachment; Dissociation; Elastic scattering; Electron; Excitation; Fluorescence; Ion; Ionization; Molecule; *SP426. SP305-8.*
- Photon; Potential model calculations; Proton-proton bremsstrahlung; Angular distributions; Low energy approximation; Non-coplanarity; Off-the-energy-shell matrix elements; *10911. SP305-2.*
- Photon; Programming; Text editing; Character generation; Composition language; Computer technology; Computerized text processing; Electronic composition; Electronic computer; Electronic printing; GRACE; Linotron; MACRO coding; MEDLARS; Microfilm; *SP295. SP305-1.*
- Photon; Proton; Scattering; Sum rules; Compton scattering; Dispersion relations; *14114. SP305-6.*
- Photon; Reaction; Tertiary; Fluorine; Iron; *SP425, pp. 328-331. SP305-7.*
- Photon; Tertiary; Theoretical; Cross sections; Energy distributions; *SP425, pp. 317-319. SP305-7.*
- Photon; Theory; X-ray diffraction; Atom; Bragg condition; Displacement; Distorted crystal; Electron overlap; Green's function; Lattice; *10384. SP305-1.*
- Photon; X ray; Attenuation coefficient; Cross section; Dosimetry; Energy-absorption coefficient; Gamma-ray; *SP456, pp. 299-306 (Nov. 1976). SP305-8.*
- Photon absorption; Atomic energy levels; Atomic spectra; Autoionization; Electron scattering; Fine structure; Helium; Photoionization resonances; *J. Phys. Chem. Ref. Data 2, No. 2, 257-265 (1973). SP305-6.*
- Photon absorption; Quadrupole resonance; Deformed nuclei; Giant resonance; Nuclear hydrodynamics; Octupole deformation; *9296. SP305.*
- Photon absorption cross sections; Photon scattering; Photoneuclear effect; Collective model; Nuclear Raman effect; Nuclear structure; *9538. SP305-1.*
- Photon activation analysis; Air pollution; Atmospheric particulate material; Electron linac; *13497. SP305-5.*
- Photon activation analysis; Biological samples; Environmental samples; Lead; *14126. SP305-6.*
- Photon activation analysis; Photon flux distribution; Relative production rate; Specific activities; Calculated sensitivities; Cross section parameters; *11053. SP305-2.*
- Photon activation analysis; Radiochemical separations; Carbon; Combustion separations; Metals; *11751. SP305-2.*

- Photon activation analysis; Rapid radiochemical separation; Sodium; Coincidence spectrometry; Oxygen; 11642A. SP305-2.
- Photon activation analysis; Rare earths; Yttrium; Coincidence spectrometry; 11372. SP305-2.
- Photon activation analysis; Review; Sensitivities; Bremsstrahlung; Carbon; Electron accelerators; Nitrogen; Oxygen; 12076. SP305-3.
- Photon activation analysis; Sodium matrix; Carbon; Carbon separation; Detection limit; Internal standard; 10675. SP305-1.
- Photon activation analysis; Soil; Biological samples; Environmental samples; Lead; 12655. SP305-4.
- Photon activation analysis; Thallium; Activation analysis; Bremsstrahlung; Determination; Glass; 12465. SP305-4.
- Photon activation analysis sensitivities; Standard reference materials; Zinc; Activation analysis; Cockcroft-Walton neutron generator; Computer literature searching; Extraction; Group separations; Homogeneity testing; Hydrogen bis(2-ethylhexyl) phosphate; TN458. SP305-1.
- Photon and electron excited emission spectra; Resonance radiation; Semi-Auger process;  $SF_6$ ; X-ray absorption of sulphur K, L and fluorine K; X-ray emission of sulphur K $\alpha$ , K $\beta$ , L and fluorine K $\alpha$ ; 13101. SP305-5.
- Photon attenuation; Chamber energy response; Geometry effects; Half-value layer; SP456, pp. 389-394 (Nov. 1976). SP305-8.
- Photon attenuation coefficients; Photon cross sections; X-ray attenuation coefficients; Compilations; Energy absorption coefficients; Gamma ray coefficients; 11330. SP305-2.
- Photon counting; Polycyclic aromatics; Spectrofluorimetry; Water; Carcinogenic compounds; Partition coefficient; 15839. SP305-8.
- Photon cross sections; X-ray attenuation coefficients; Compilations; Energy absorption coefficients; Gamma ray coefficients; Photon attenuation coefficients; 11330. SP305-2.
- Photon cross-sections; Photon scattering; Photonuclear absorption; Photonuclear reaction; 9216. SP305.
- Photon detectors; Soft x rays; Excitation methods; Gratings; Grating spectrometers; 14338. SP305-6.
- Photon emission angles; Thick target bremsstrahlung; Efficiencies; Low energy; Monte Carlo predictions; 9991. SP305-1.
- Photon energy; Cross sections; (n,xy); SP425, pp. 758-761. SP305-7.
- Photon energy; Production cross sections; Spallation products; 3-13 GeV electron beam; 12856. SP305-4.
- Photon energy; Ta target; Thermoluminescent detectors; 30 and 57.4 MeV electrons; Angular distribution; Depth-dose; 14040. SP305-6.
- Photon flux distribution; Relative production rate; Specific activities; Calculated sensitivities; Cross section parameters; Photon activation analysis; 11053. SP305-2.
- Photon Green's function; Theory; X-ray diffraction; Anomalous transmission; Atomic displacement; Debye-Waller factor; Distorted crystal; Laue case; 10383. SP305-1.
- Photon induced excitation; Carrier mobility; Damping rates; Laser damage of semiconductors; Parametric plasma instability; SP462, pp. 357-364 (Dec. 1976). SP305-8.
- Photon neutron; Radiation transport; Thick targets; Bremsstrahlung; Bremsstrahlung efficiency; Monte Carlo; 11799. SP305-3.
- Photon polarization; Photons; Positrons; Triplet production; Electrons; Pair production; 11406. SP305-2.
- Photon polarization; Polarizabilities; Electromagnetic transition; Matrix elements; Nuclear orientation; Orientation parameter; Photo absorption; 10819. SP305-1.
- Photon scattering; Photonuclear; Sum rules; Nuclear hydrodynamics; Particle-hole calculations; *Monogr.* 118. SP305-2.
- Photon scattering; Photonuclear absorption; Photonuclear reaction; Photon cross-sections; 9216. SP305.
- Photon scattering; Photonuclear effect; Collective model; Nuclear Raman effect; Nuclear structure; Photon absorption cross sections; 9538. SP305-1.
- Photon scattering; Polarized photons; Dynamic collective model; Giant resonance; 13640. SP305-5.
- Photon scattering; Polarized photons; Sum rule; Giant resonance; 10302. SP305-1.
- Photon scattering; Polarized photons; Tensor polarizability; Dynamic collective model; Giant resonance; Nuclear surface oscillations; 13820. SP305-6.
- Photon scattering; Sum rules; Effective interaction; Electron scattering; Nucleon-nucleon correlations; Photoabsorption; 13754. SP305-5.
- Photon spectrum; Radiation; Bremsstrahlung; Electron; Interference; Molecular coherence; 12634. SP305-4.
- Photon statistics; P representation; Pure states; Quantum optics; Representation theory; Coherent states; Density operator; Distribution theory; Electromagnetic field; 10860. SP305-1.
- Photoneutron; Activation curve; Cross-section; 9215. SP305.
- Photoneutron; Response; Yields; Detector; Efficiency; Four-p; Halpern; Neutron; TN416. SP305.
- Photoneutron angular distributions; Photoneutrons; Photoneutron spectra; Cross sections; 9731. SP305-1.
- Photoneutron reaction; Solid state detectors; Standard reference materials; Tin standard for chemical shift; Computers; Cross sections; Detection limits for analysis; Flux monitors; Mossbauer instrumentation; Mossbauer spectroscopy; NBS Linac; Nickel-61; TN421. SP305.
- Photo-neutron reactions; Flux monitors; Cu, Se, Al, V in irons and steels; Homogeneity testing; Pneumatic rabbit sensor; Mossbauer spectroscopy; Tin standard for chemical shift; PARLORS program for Mossbauer spectra; Mossbauer instrumentation; TN404. SP305.
- Photoneutron reactions; Self-absorption corrections; Standard reference materials; Vanadium in irons and steels; Activation analysis; Biological; Botanical samples; Carbon in sodium; Cockcroft-Walton generator; Digital computers; Flux monitors; High precision 14 MeV neutron activation; Homogeneity testing; Instrumentation; NBS LINAC; NBS reactor TN428. SP305.
- Photoneutron sources; Surface barrier detectors;  $Li(n,\alpha)$ ; Absolute cross section measurements; Manganese bath; Neutron cross sections; SP425, pp. 236-239. SP305-7.
- Photoneutron spectra; Cross sections; Photoneutron angular distributions; Photoneutrons; 9731. SP305-1.
- Photoneutron spectra; Reactors;  $^3H$ ;  $^9Be$ ; Fission products; Gamma spectra; SP425, pp. 193-198. SP305-7.
- Photoneutrons; Photoneutron spectra; Cross sections; Photoneutron angular distributions; 9731. SP305-1.
- Photoneutrons; Radiation transport; Bremsstrahlung; Monte Carlo; Neutron yield; Photonuclear cross sections; 13263. SP305-5.
- Photons; Absorption; Collective model; Cross section; Deformed nuclei; Giant quadrupole resonances; 9352. SP305.
- Photons; Compton scattering; Differential cross section; Electron binding; Gamma rays; K-shell; J78A No. 4, 461-46. (1974). SP305-6.
- Photons; Cross sections; Electron pairs; Exchange; Numerical integration; 10284. SP305-1.
- Photons; Photonuclear; Protons; Reactions; Theory; Experiment; Neutrons; Nuclear; 13187. SP305-5.
- Photons; Point-isotopic source; Absorbed fraction; Buildup factor; Energy absorption; Gamma rays; 10314. SP305-1.
- Photons; Positrons; Triplet production; Electrons; Pair production; Photon polarization; 11406. SP305-2.



- photons; Radiation detectors; Radiochemical separation; Activation analysis; Applications; Archaeology; Biology; Charged particles; Computation; Conference; Criminology; Data handling; Geochemistry; Industry; Neutron; *SP312, Volumes I and II. SP305-1.*
- photons; Radiation measurements; Test patterns; Choice of dosimeters; Electrons; Ferrous sulfate dosimeters; Medical applications; Performance criteria; Personnel monitoring; Photographic film; *14095. SP305-6.*
- photons; Rayleigh scattering; Tabulations; X rays; Atomic form factor; Compton scattering; Cross sections; Gamma rays; Incoherent scattering function; *J. Phys. Chem. Ref. Data 4, No. 3, 371-538 (1975). SP305-7.*
- photons; Rayleigh scattering; X rays; Attenuation coefficient; Compilations; Compton scattering; Cross section; Crystallography; Photoelectric absorption; *14847. SP305-7.*
- photons; Röntgen; X rays; Absorption corrections; Attenuation coefficient; Conference; Crystallography; Electron microprobe; Fluorescence analysis; Gamma rays; *11814. SP305-3.*
- photons; Silver; Tin; Collision; Cross section; Electrons; Energy; Ionization; *10380. SP305-1.*
- photons; Transfer standard; Uniformity checks;  $\sim 1$  to 50 MeV; Absorbed dose; Calibration; Electrons; Ferrous-sulfate system; Graphite calorimeter; Interim program; *11299. SP305-2.*
- photons; X rays; Attenuation coefficients; Cross sections; Gamma rays; Photoelectric effect; *TN901. SP305-8.*
- photons; X-rays; Attention coefficient; Compilations; Compton scattering; Photo electric effect; *12648. SP305-4.*
- photons; X-rays; Attenuation coefficient; Bibliography; Cross section; Data index; Gamma rays; *12800. SP305-4.*
- photons; X-rays; Attenuation coefficient; Coherent scattering; Compilations; Cross section; Incoherent scattering; Photoelectric absorption; *12868. SP305-4.*
- photons; X-rays; Attenuation coefficient; Compton scattering; Cross section; Energy absorption coefficient; Gamma rays; Pair production; Photoelectric absorption; *NSRDS-NBS29. SP305-1.*
- photons; X-rays; Attenuation coefficient; Compton scattering; Cross section; Energy absorption coefficient; Gamma rays; Pair production; Photoelectric absorption; *10989. SP305-2.*
- photon-scattering; Total; Ultraviolet cross sections; Aeronomics; Astrophysical; Partial; Photoabsorption cross sections; Photodissociation; Photoexcitation; Photoionization; *NSRDS-NBS38. SP305-3.*
- photonuclear; Boron eleven; Giant resonance; Isobaric spin splitting; *11890. SP305-3.*
- photonuclear; Production cross sections; Radioactivity; Spallation; Aluminum; GeV electrons; Iron; *12697. SP305-4.*
- photonuclear; Protons; Reactions; Theory; Experiment; Neutrons; Nuclear; Photons; *13187. SP305-5.*
- photonuclear; Radiative capture; Angular distribution; Cross section; Helium-3; *11886. SP305-3.*
- photonuclear; Radii; Sum rule; Correlations; Electric dipole; Isospin; *11415. SP305-2.*
- photonuclear; Radii; Sum rule; Tritium; Helium-3; Isospin; *11416. SP305-2.*
- photonuclear; Ratio cross sections; Differential cross section; Electrodissintegration; Isospin; Light nuclei; *12694. SP305-4.*
- photonuclear; Reaction theory; Coupled-channel; Eigenchannel; Giant resonance; *12841. SP305-4.*
- photonuclear; Spallation; Bismuth; Gamma rays; Integrated cross section; Isomer; Lead; Linac; Lithium drifted germanium; *12855. SP305-4.*
- photonuclear; Sum rules; Giant resonance; Isoscalar; Isospin; Isosensor; Isovector; *12700. SP305-4.*
- photonuclear; Sum rules; Nuclear hydrodynamics; Particle-hole calculations; Photon scattering; *Monogr. 118. SP305-2.*
- Photonuclear; Weak interactions; Deuterium; Electron scattering; Helium-3; Helium-4; *13815. SP305-6.*
- Photonuclear absorption; Photonuclear reaction; Photon cross sections; Photon scattering; *9216. SP305.*
- Photonuclear absorption cross sections; Spherical nuclei; Theoretical physics; Nuclear physics; *9214. SP305.*
- Photonuclear chemistry; Poisson statistics; Single and multiple parameter nuclear analyses; Statistical weights; 14 MeV neutron activation; Counting precision; Excess variability; Limiting precision; *13694. SP305-5.*
- Photonuclear cross sections; Photoneutrons; Radiation transport; Bremsstrahlung; Monte Carlo; Neutron yield; *13263. SP305-5.*
- Photonuclear Data Center; Central computer; Computer programs; Data manipulation; Digital data; Mass storage; NIRA; *TN903. SP305-8.*
- Photonuclear effect; Collective model; Nuclear Raman effect; Nuclear structure; Photon absorption cross sections; Photon scattering; *9538. SP305-1.*
- Photonuclear effect; Quasideuteron effect; Short range correlations; Cluster expansion; High momentum components; Jastrow wave function; *12686. SP305-4.*
- Photonuclear experiments; Photonuclear interaction; Photonuclear reactions; Photonuclear theory; Reprint collection; History; *16270. SP305-8.*
- Photonuclear experiments; Radioactivity monitors; *11877. SP305-3.*
- Photonuclear giant resonance; Photonuclear reaction; Bibliography; Data index; Data summary; Elements; Isotopes; Nuclear physics; *SP380. SP305-5.*
- Photonuclear interaction; Photonuclear reactions; Photonuclear theory; Reprint collection; History; Photonuclear experiments; *16270. SP305-8.*
- Photonuclear physics; Race track microtron; Storage rings; Electron accelerators; Linear accelerators; *13852. SP305-6.*
- Photonuclear physics apparatus; Rectangular counters; Electron scattering spectrometer; Focal plane detectors; Lithium compensated silicon; Low temperature radiation detectors; *9678. SP305-1.*
- Photonuclear physics apparatus; Scattering chamber; Semiconductor detectors; Detector telescope; Large area detectors; *9298. SP305.*
- Photonuclear reaction; Bibliography; Data index; Data summary; Elements; Isotopes; Nuclear physics; Photonuclear giant resonance; *SP380. SP305-5.*
- Photonuclear reaction; Photon cross-sections; Photon scattering; Photonuclear absorption; *9216. SP305.*
- Photonuclear reactions; Bibliography; Data index; Elements; Isotopes; Nuclear physics; *M277, Supplement 1. SP305.*
- Photonuclear reactions; Bibliography; Data index; Elements; Isotopes; Nuclear physics; *SP322. SP305-2.*
- Photonuclear reactions; Photonuclear theory; Reprint collection; History; Photonuclear experiments; Photonuclear interaction; *16270. SP305-8.*
- Photonuclear reactions; Processing; Radiation; Threshold energies; Detection; Induced radioactivity; Maximum permissible concentrations; *9853. SP305-1.*
- Photonuclear reactions; Proportional counter; Quantitative Mössbauer spectrometry; Standard reference materials; Backscatter geometry; Computer programs for Mössbauer spectrometry; Computers; Corrosion products; Counting statistics; *TN451. SP305-1.*
- Photonuclear reactions; Research programs; Survey; Data; Experimental facilities; History; *13722. SP305-5.*
- Photonuclear reactions; *s*-matrix; Continuum shell model; Nuclear reactions; Nuclear structure; *13248. SP305-5.*
- Photonuclear reactions; 90 MeV bremsstrahlung;  $^{64}\text{Cu}$ ,  $^{63}\text{Cu}$ ,  $^{11}\text{C}$  activation monitor yields; Absolute tritium yields; Hydrogen extraction; Nuclear evaporation calculations; *12143. SP305-3.*

- Photonuclear theory; Reprint collection; History; Photonuclear experiments; Photonuclear interaction; Photonuclear reactions; *16270. SP305-8.*
- Photooxidation; Polycyclic; Pyrene; Reaction; 1,1'-bipyrene; 1,6- and 1,8-pyrenediones; Aromatic; Hydrocarbons; Particulates; Photochemical; *9703. SP305-1.*
- Photooxidation;  $\Delta O_2$ ; Lasers; Photochemistry; *13300. SP305-5.*
- Photo-oxidation products of perylene; Polycyclic aromatic hydrocarbons; Thin-layer chromatograms; Ultraviolet; Visible absorption spectra; 4-oxo-4H-benz[de]anthracene-7,8-dicarboxylic anhydride; *J.72A No. 1, 39-47 (1968). SP305-1.*
- Photopeak analysis; Removal cross section; Systematic errors; 14-MeV activation analysis; Annihilation radiation; Correction factors; Neutron and gamma-ray attenuation; *11648. SP305-2.*
- Photopeak efficiency curve; Accurate method of calibration; Gamma-ray photopeak efficiency; *9800. SP305-1.*
- Photopigment; Vision; Absorption; Adaptation; Beer's law; Chromatic adaptation; Color vision; Concentration; Cones; Curve shape; High luminance; Metameric matches; Pigment; *J.72A No. 4, 309-340 (1968). SP305-1.*
- Photoplate quality; Automated inspection of photomasks; Critical dimension determination; Defects; Detection of visual defects; Integrated circuit photomasks; Photomask inspection; Photomasks; *15039. SP305-7.*
- Photoproduction-meson;  $SU(6)_w$ ; Symmetry; Vector; Dominance; Meson; *11222. SP305-2.*
- Photoresist; Platinum wire resistivity; Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; Test patterns; Thermal response; *SP400-4. SP305-6.*
- Photoresist; Pull test; Resistivity; Scanning acoustic microscope; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Silicon dioxide; Silicon on sapphire; *SP400-25. SP305-8.*
- Photoresist; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; *SP400-1. SP305-6.*
- Photoresist; Resistivity; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; *SP400-8. SP305-7.*
- Photoresistors; Standard terminology; Flux sensitive resistors; Galvanomagnetic devices; Hall effect; Magneto resistors; *10033. SP305-1.*
- Photoresponse; Semiconductors; Silicon; Deep impurities; Germanium; Infrared; Photoconductivity; *TN570. SP305-3.*
- Photosphere, sun; Radiative transfer; Solar flares; Chromosphere, sun; *15286. SP305-7.*
- Photospheres, stellar; Ca II emission; Chromospheres, stellar; *15465. SP305-7.*
- Photospheres, stellar; Chromospheres, stellar; He emission; *15487. SP305-7.*
- Photospheres, stellar; Radiative transfer; Atomic abundances; CN spectra; Non-LTE molecular spectra; *15418. SP305-7.*
- Photostimulation; Power supplies; Radiation; *11276. SP305-2.*
- Photosynthetic oxygen; Oxygen variations; Atmospheric composition; Oxygen analysis; *11752. SP305-2.*
- Phototherapy; Bilirubin; Brain damage; Hyperbilirubinemia; Neonatal hyperbilirubinemia; *16366. SP305-8.*
- Phototherapy; Pollution; Radiometry; Remote sensing; Agriculture; Clinical analysis; Economic impact; Energy crisis; Meteorology; Photometry; *TN594-4. SP305-5.*
- Phototiming; Radiographic examination; X-ray tube potential Attenuation; Exposure; Phantoms; *SP456, pp. 381-388 (Nov. 1976). SP305-8.*
- Phototransistors; Angular displacement detector; Light emitting diode; *13046. SP305-4.*
- Phototransport; Scattering; Vacancies; Absorption; Electrophoretic transport; Ionic segregation; Laser; Momentum transfer; *SP462, pp. 365-370 (Dec. 1976). SP305-8.*
- Phototube response evaluation; Total irradiance standard; Color temperature standards; *10560. SP305-1.*
- Phototubes; Photodetector; Photodetector spectral response; Photomultiplier tubes; *14804. SP305-7.*
- Phototubes; Spectral correction of phototubes; Filter; Photocells; Photometers; Photometry; *10117. SP305-1.*
- Phototypesetting; Computer typesetting; Data processing; Photocomposing; *10460. SP305-1.*
- Phototypesetting; Printing; Applications Computers; Computer-assisted typesetting; FORTRAN programs; KWIC index; *TN500. SP305-2.*
- Phototypesetting; Text automation; Computer-assisted printing; Computer input; Electronic typesetting; Input technique; Keyboarding conventions; *14672. SP305-6.*
- Phototypesetting of spectroscopic tables; Typesetting of table Automatic typesetting; Computer-assisted typesetting; Ed insertion program; FORTRAN program; *TN740. SP305-5.*
- Photovoltaic; Electron voltaic; Photoconductivity; Point potential probe; Spreading resistance; Voltage breakdown; Bibliography; Semiconductor material inhomogeneities; Measurement methods; *TN445. SP305-1.*
- Photovoltaic effect; Resistivity; Semiconductors; Silicon; Germanium; Inhomogeneities; Measurement methods; *1422. SP305-6.*
- Photovoltaic effects; Radiation detection; Radiation detector Semiconducting devices; Silicon; X rays; Dosimetry; Gamma rays; Photodiodes; *11114. SP305-2.*
- Photovoltaic imaging; Rutherford backscattering; SCANNING Secondary ion mass spectroscopy; Semiconductor device Silicon; Surface analysis; X-ray photoelectron spectroscopy; Auger spectroscopy; Depth profiles; Electron beam induced imaging; ESCA; Insulator films; *SP400-23. SP305-8.*
- Photoyields; Sensitivity; Tungsten; Carbon monoxide; ESC Monolayer; Oxygen; *14027. SP305-6.*
- Phrase structure grammar; Linguistics; Frame embedding; Two dimensional languages; Chinese characters; Grammars; Generative grammar; Component combination; *TN29. SP305.*
- Phthalate monomers; Purification methods; Resins for copolymers; Ternary eutectic; Thermosetting monomers; Bi materials; Dimethacrylates; *11802. SP305-3.*
- Phthalate trace analysis; Air analysis; Analytical blank; Gas chromatography; Ocean biota analysis; *SP422, pp. 701-710 (Aug. 1976). SP305-8.*
- Phthalocyanine catalysts; Ferric phthalocyanine; Kinetics; Oxygen reduction; *SP455, pp. 253-258 (Nov. 1976). SP305-8.*
- Physical; Reliable; Specification; Use; Valid; Biological; Chemical; *13259. SP305-5.*
- Physical adsorption; Single crystal; Tungsten; Work function; Adsorption; Field emission; Methane; *12735. SP305-4.*
- Physical adsorption; Synthetic zeolite; Zeolite; Hydrogen gas; Low temperature; Methane; Nitrogen; *9841. SP305-1.*
- Physical adsorption; Tungsten; Work function; Adsorption; Nitrogen; *16460. SP305-8.*
- Physical adsorption; Tungsten; Xenon; Chemisorption; ESC Oxygen; *15347. SP305-7.*
- Physical adsorption; Tungsten (111); Work function; Xenon Desorption energy; Desorption kinetics; *15201. SP305-7.*
- Physical and engineering properties; Test methods; Bitumen roof membranes; Performance attributes; Performance criteria; *BSS55. SP305-6.*

- Physical and engineering properties; Test methods; Bituminous roof membranes; Performance attributes; Performance criteria; 15629. **SP305-7.**
- Physical axioms; Universe-complex structure; Complex structure; Electromagnetic fields; 9603. **SP305-1.**
- Physical changes in platinum resistance thermometers; Stability of platinum resistance thermometers; Chemical changes in platinum resistance thermometers; High temperature platinum resistance thermometers; 13579. **SP305-5.**
- Physical characteristics; Refrigerators; Cyclic refrigerators; 10094. **SP305-1.**
- Physical chemistry; Reference data; Status report; Compilation; Critical evaluation; Data; NSRDS; 13903. **SP305-6.**
- Physical constant; Second; Standard; Unit; Degree Kelvin; Kilogram; Measurement system; Meter; 9797. **SP305-1.**
- Physical constant; X ray; Avogadro; Crystal; 16223. **SP305-8.**
- Physical constants; Atomic constants; Fundamental constants; 3444. **SP305-3.**
- Physical constants; Physical standards; Calibration; Instrument specifications; International standards; Measurement history; Measuring instruments; 12413. **SP305-4.**
- Physical constants; Polymers; Properties; Rubbers; Styrene-butadiene rubber; Butyl rubber; Constants; Natural rubber; Neoprene; 10136. **SP305-1.**
- Physical constants; Polymers; Properties; Rubbers; Styrene-butadiene rubbers; Butyl rubber; Constants; Natural rubber; Neoprene; 14858. **SP305-7.**
- Physical constants; Science teaching; Measurement standards; 12381. **SP305-4.**
- Physical constants; SI; Units; Metric system; 9913. **SP305-1.**
- Physical constants; SI units; Gyromagnetic ratio; Measurement units; 13311. **SP305-5.**
- Physical constants; SI units; Gyromagnetic ratio; Measurement units; 16395. **SP305-8.**
- Physical constants; Spectral line profiles; Statistical error analysis; X-ray line shapes; X-ray spectra; X-ray wavelength criteria; Lattice constants; Peak intensity; *J.72A No. 2*, 187-205 (1968). **SP305-1.**
- Physical constants; Variance components; Interlaboratory comparisons; Philosophy of design; 13132. **SP305-5.**
- Physical determinism; Physical environment; Activities; Communication; Courthouse; Human performance; Institutional performance; Judicial system; Mutual adaptation; Objectives; Operations; *SP361, Vol. 1*, pp. 83-91. **SP305-4.**
- Physical development; Printout; Photolysis; Radiographic films; Silver halides; Dosimetry; Gamma rays; Hypersensitization; Internal image; Latensification; Photographic development; 11643. **SP305-2.**
- Physical environment; Activities; Communication; Courthouse; Human performance; Institutional performance; Judicial system; Mutual adaptation; Objectives; Operations; Physical determinism; *SP361, Vol. 1*, pp. 83-91. **SP305-4.**
- Physical environment; Planning and design basis; User characteristics; Human activities; Performance criteria; *SP361, Vol. 1*, pp. 13-22. **SP305-4.**
- Physical expansion; Single scatter propagator; Binary collision expansion; Generalized collision integrals; Multiple scattering system; 11502. **SP305-2.**
- Physical forces; Reinforcement; Reversible; Rubber vulcanizates; Stiffening; Anisotropic;  $\beta$ -naphthyl group; Glass transition temperature; Phenyl  $\beta$ -naphthylamine; 9896. **SP305-1.**
- Physical measurement; Metrology management; National Conference of Standards Laboratories; *SP313*. **SP305-1.**
- Physical measurement; Physical standards; Standards for science; Measurement accuracy; 10504. **SP305-1.**
- Physical measurement; Proceedings NCSL; Metrology management; National Conference of Standards Laboratories; *SP335*. **SP305-3.**
- Physical measurements; Electromagnetic measurements; Functional elements; 10014. **SP305-1.**
- Physical measurements; Quality control; Radiation measurement; Radiation processing; Radiation sterilization; Radiochromic dyes; Red Perspex; Sterility control; Dosimetry; Electron beams; Gamma rays; 16648. **SP305-8.**
- Physical optics; Radiometry; Spectrometry; Spectroradiometry; Analytical chemistry; Nomenclature; Photochemistry; Photometry; 16331. **SP305-8.**
- Physical optics; Sagnac interferometer; Autocorrelation; Interferometry; Lens testing; Modulation transfer function; Optics; 12955. **SP305-4.**
- Physical origin; Random processes of physical origin; Turbulent field; Acoustic noise; Air or water flow; Atmospheric and oceanographic turbulence; Boundary layer turbulence; Higher-order correlations; 9729. **SP305-1.**
- Physical properties; Cement; Chemical composition; Concrete; Durability; Material properties; *BSS36*. **SP305-3.**
- Physical properties; Physical quantities; Physics; Standards; Standards laboratory; Time and frequency; High frequency; Measurements; Microwave; 10189. **SP305-1.**
- Physical properties; Polycrystals; Preparation; Research; Chemical properties; Composition; Gases; Glasses; Liquids; Multiphase materials; *SP333*. **SP305-2.**
- Physical properties; Prosthetic materials; Radiopacity-radiopaque; Composite materials; Denture base materials; 12309. **SP305-3.**
- Physical properties; Pyrolysis; Silicon difluoride; Base catalyzed decomposition; Fluorodisilane; Pentafluorodisilane; 16014. **SP305-8.**
- Physical properties; Radiopacity; Bonding; Composites; Denture base materials; Diagnosis; Light translucency; 12232. **SP305-3.**
- Physical properties; Reference books (material); Alloys; Automated; Bibliography; Data; Files; Indexing computer programs; Information; Metals; 10863. **SP305-2.**
- Physical properties; Resins; Silica; X-ray opacity; Barium glass; Dental composites; Dental reinforcements; 13674. **SP305-5.**
- Physical properties; Scheelite structure; Single crystal; X-ray back-reflection; Calcium molybdate; Crystal orientation; Crystallographic groups; Interplanar angles; *J.70A5-410*, 379-384 (1966). **SP305.**
- Physical properties; Stability; Fiber structure; Hide; Insulator leather; Mechanical properties; 9827. **SP305-1.**
- Physical properties; Standard reference data; Critical evaluation; Information centers; Information services; NSRDS; 10318. **SP305-1.**
- Physical properties; Standard reference data; Critical evaluation; Information centers; Information services; NSRDS; 11572. **SP305-2.**
- Physical properties; Standard reference materials; Coal; Energy; Fuel; Graphite; Hydrocarbons; Metering; Methane; Natural gas; Petroleum; *SP434*. **SP305-8.**
- Physical properties, fabrics; Programs, textile testing; Test methods, textile; Testing equipment, textile; Textile testing; Apparel materials; Equipment, textile testing; Fabric defects; 10843. **SP305-1.**
- Physical properties, fabrics; Programs, textile testing; Test methods, textile; Testing equipment, textile; Apparel materials; Equipment, textile testing; 10844. **SP305-1.**
- Physical properties of a building, of a product; Users' requirements; Assembly; Compatibility of components; *SP361, Vol. 1*, pp. 161-164. **SP305-4.**
- Physical properties of fillings; X-ray opaque; Clinical research (dental); Composite restorations; Diagnosis; 11944. **SP305-3.**
- Physical property changes; Space environment; Information center; Interferometric measurements; Optical materials; *SP336*, pp. 949-959. **SP305-3.**

- Physical quantities; Physics; Standards; Standards laboratory; Time and frequency; High frequency; Measurements; Microwave; Physical properties; 10189. SP305-1.
- Physical science research administration; Research planning; Scientific research abstracts; Special Foreign Currency Program; Yugoslavia science and technology; Binational research cooperation; International scientific cooperation; TN753. SP305-5.
- Physical science research administration; Research planning; Scientific research abstracts; Special Foreign Currency; Binational research cooperation; International scientific cooperation; India science and technology; TN798. SP305-5.
- Physical science research administration; PL-480 programs; Research planning; Scientific research abstracts; Binational research cooperation; International scientific cooperation; Israel science and technology; TN721. SP305-4.
- Physical sciences; Critically evaluated numerical data; National Standard Reference Data System; 15305. SP305-7.
- Physical security; Barrier penetration; Intrusion resistance; 13562. SP305-5.
- Physical security; Barrier penetration; Intrusion detection; Intrusion resistance; TN837. SP305-6.
- Physical security; Privacy risk assessment; Access controls; ADP security; Computer security; Federal Information Processing Standards; Information management; Personal data; FIPS PUB 41. SP305-7.
- Physical security; Reinforced concrete; Barrier penetration; Intrusion detection; 13384. SP305-5.
- Physical security; Risk analysis; Security audit; Security awareness; Supporting utilities; ADP security; Computer reliability; Contingency plans; Federal Information Processing Standard; Fire safety; Natural disasters; FIPS PUB 31. SP305-6.
- Physical security; Standards; Building codes; Door assemblies; Performance requirements; 16142. SP305-8.
- Physical simulation; Structural safety; Structural serviceability; Building; Evaluation; Performance criteria; 14620. SP305-6.
- Physical standards; Calibration; Instrument specifications; International standards; Measurement history; Measuring instruments; Physical constants; 12413. SP305-4.
- Physical standards; Standards for science; Measurement accuracy; Physical measurement; 10504. SP305-1.
- Physical tests; Portland cement; Chemical analyses; BSS17. SP305-1.
- Physical-radiochemical separation; Activation analysis; Iodine; Mass separation; 13966. SP305-6.
- Physician; Technologist; X-ray departments; X-ray trends; Diagnostic; Nationwide evaluation; SP456, pp. 147-152 (Nov. 1976). SP305-8.
- Physicochemical mechanism; Solubility of enamel; Caries models; Dental caries; Phase diagrams; 14141. SP305-6.
- Physics; Chemistry; Experimental procedures; Numerical data; J76A No. 2, 67-70 (1972). SP305-4.
- Physics; Photoelectricity; 10685. SP305-1.
- Physics; Publication; Reference data; Review; Chemistry; Evaluation of data; Information retrieval; 11313. SP305-2.
- Physics; Signal statistics; Applied mathematics; Bessel functions; Complete elliptic integrals; Engineering; Infinite integrals; Modified Bessel functions; J78B No. 3, 113-135 (1974). SP305-6.
- Physics; Standards; Standards laboratory; Time and frequency; High frequency; Measurements; Microwave; Physical properties; Physical quantities; 10189. SP305-1.
- Physiologic pH; Tris(hydroxymethyl)aminomethane and tris pH buffer; Clinical pH standard; PH standard; 12589. SP305-4.
- Physiological and psychological acoustics; Psychophysics; Space perception; Audition and ranging; 13471. SP305-5.
- Physiological effects of infrasound; Atmospheric acoustics; Infrasound; 14800. SP305-7.
- Physiological indices; Predicted indoor habitability index (PIHI); Weather building human systems; Air conditioning criteria; Human comfort; 16152. SP305-8.
- Physiological optics; Psychophysics; Scaling of color; Color Gloss; Light; Perception of color; Photometry; 9336. SP305.
- Physiology; Psychology; Acoustics; Human factors; Human occupancy; Illumination; Interdisciplinary approach; 1536. SP305-7.
- Physiology; Psychology; Space station simulator; Submersible; Closed ecological system; Habitability; Maintainability prediction; Microbiology; Microflora shift; SP336, pp. 599-62. SP305-3.
- Physiology of hearing; Pitch perception; Theories of hearing; Diplacusis; Hearing; Hearing loss; Masking; 10525. SP305-1.
- Physiosorption; Chemisorption; Deposition; Gas separation; 14363. SP305-6.
- Physiosorption; Surface chemistry; Tungsten; X-ray photoelectron spectroscopy; Carbon dioxide; Carbon monoxide; Chemisorption; Formaldehyde; Oxygen; 16085. SP305-8.
- Physiosorption; Tungsten; Binding states; Chemisorption; Cross section; Desorption; Electronic desorption; Electron impact; Oxygen; 11212. SP305-2.
- Physiosorption; Tungsten; Xenon; XPS; Carbon monoxide; Chemisorption; ESCA; Extra-atomic relaxation; Formaldehyde; Oxygen; Photoelectron spectroscopy; 16023. SP305-8.
- Physiosorption; Tungsten (100); Xenon; Crystal field; Photoemission; 15813. SP305-8.
- PH<sub>2</sub>Br; Rigid-body analysis; Thermal motion; Crystal structure; Neutron diffraction; 12119. SP305-3.
- Pi network; Tank circuit; FET; 16580. SP305-8.
- Pickup; DC-amplifiers; Filter; 9241. SP305.
- Pickup; Resonance; Vibration; Accelerometer; Calibration; 10414. SP305-1.
- Pickup; Vibration; Vibration exciter; Accelerometer; Calibration; Harmonic distortion; Low frequency; 15567. SP305-7.
- Picnic coolers, portable; Portable picnic coolers; Cooler; portable picnic; PS49-71. SP305-3.
- Picofarad capacitor; Shock sensitivity; Stability of value; T picofarad capacitor; Transportable ten picofarad capacity; Unit of capacitance; Volume dependence; Capacitance standards; Fused silica dielectric; 9653. SP305-1.
- Picomole fluorometry; Fluorometry, amino acids; Fluorometric peptides; SP378, pp. 227-230. SP305-5.
- Picomole fluorometry; Fluorometry, amino acids; Fluorometric peptides; J.76A No. 6, 637-640 (1972). SP305-4.
- Picosecond; Pulse; Detector; Dye laser; GaAs; Photoconductor; 15651. SP305-7.
- Picosecond; Pulse; Random sampling; Risetime; Sampling; Transition time; Mercury switch; Oscilloscope; 14791. SP305-5.
- Picosecond; Pulse; Random sampling; Risetime; Sampling; Transition time; Mercury switch; Oscilloscope; 1429. SP305-6.
- Picosecond; Pulse; Waveguide; Fiber optics; GaAs; Impulse; Laser; Optics; 14004. SP305-6.
- Picosecond; Pulse generator; Pulse measurement; Superconductivity; Mercury switch; NBSIR 74-377. SP305-6.
- Picosecond; Pulse generator; Risetime; Trigger; Tunnel diode; Directional coupler; 15653. SP305-7.
- Picosecond; Pulse generator bias supply; Tunnel diode; Jit; 11849. SP305-3.
- Picosecond; Pulse measurement; Superconductivity; Delay line; 14776. SP305-7.
- Picosecond; Pulse measurement; Superconductivity; Delay line; 14825. SP305-7.
- Picosecond; Resolution; Time-invariant; Wide-range; Zero crossing; Discriminator; 10125. SP305-1.
- Picosecond; Rhodamine 6 G; DODCI; Dye laser; Laser; Molecular lock; 14008. SP305-6.



- icosecond; Rhodamine 6G; DODCI; Dye laser; Laser; Mode-lock; *NBSIR 73-347. SP305-6.*
- icosecond; Sampling; Sampling oscilloscope; Strobe; GaAs; Laser; Optical; Oscilloscope; Photoconductor; *15835. SP305-8.*
- icosecond; Slow-wave; Traveling-wave; Cathode ray tube; CRT; Deflection; Electron beam; GHz; Oscilloscope; *12566. SP305-4.*
- icosecond; Spectral intensity; UHF; VHF; Avalanche transistor; Frequency calibration; Impulse; *12785. SP305-4.*
- icosecond; Spectrum; Spectrum amplitude; Step recovery diode; Impulse generator; *15658. SP305-7.*
- icosecond laser pulses; Avalanche ionization; Dielectric breakdown; Inclusions; Laser damage threshold; Morphology; Non-linear refractive index; *SP435*, pp. 321-330 (Apr. 1976). **SP305-8.**
- icosecond pulses; Refractory oxides; Standing-wave fields; Thin films; Two-photon absorption; Damage thresholds; Electron avalanche; *SP462*, pp. 292-300 (Dec. 1976). **SP305-8.**
- icosecond pulses; RF sputtering; Standing-wave patterns; Damage thresholds; Dielectric thin films; Electric fields; Electron-gun evaporation; *SP435*, pp. 254-271 (Apr. 1976). **SP305-8.**
- icosecond pulses; Spark thresholds; Thin films; Weak-signal scatter; Damage thresholds; Dielectric reflector; Laser-induced scatter; *SP414*, pp. 39-47. **SP305-6.**
- icosecond rise-time pulse evaluation; Power measurement; Pulse-rise-time standardization; Sampling oscilloscope standardization; Spectrum analyzer standardization; Termination mismatch error elimination; Thin-film bolometers; Voltage measurement; BOLOVAC; *Monogr. 123. SP305-4.*
- icosecond time difference measurements; Accurate frequency measurement; Accurate time measurement; Frequency; Frequency stability; Frequency stability analysis; Models of frequency stability; *TN669. SP305-7.*
- icosecond time difference measurements; Accurate frequency measurement; Accurate time measurement; Frequency; Frequency stability; Frequency stability analysis; Models of frequency stability; *15740. SP305-8.*
- icoseconds; Random sampling; Sampling head; Sampling oscilloscope; Spark-gap; GHz; Impulse; *12518. SP305-4.*
- ictorial analysis; Quantitative microscopy; Size distribution; Computer analysis of micrographs; Grain size; Micrographic analysis; *11238. SP305-2.*
- ICTUREPHONE®; Radial resistivity inhomogeneities; Silicon resistivity; Spreading resistance techniques; Dark field coring; MOS-CV techniques; *SP400-10*, pp. 179-184. **SP305-6.**
- icewise; Smoothing; Continuous function; Fourier series; *J71C2-248, 93-100 (1967). SP305.*
- ierre de Fermat; Gregor Mendel; Isaac Todhunter; Anniversaries; History; Probability; Statistics; *9156. SP305.*
- erre Simon de Laplace; Rejection of observations; Stirling's formula; Stirling's numbers; *Théorie analytique des probabilités*; William Chauvenet; Abraham De Moivre; Avogadro's number; Brownian motion; Chauvenet's criterion; *11618. SP305-2.*
- ezobirefringence; Piezooptical coefficients; Resonance-photoelasticity; Stress-birefringence; Absorption edge; Birefringence; Dispersion of piezobirefringence; Gallium arsenide; Nonlinear piezobirefringence; Photo-elasticity; *10941. SP305-2.*
- ezocalorimeter; Transducers; Triplet formation; Absolute quantum efficiency; Absolute quantum yield; Calorimetry; Luminescence; Photoacoustic spectrometer; *J. Res. 80A No. 3, 413-419 (1976). SP305-8.*
- zeoelectric; Polarization; Polyvinyl chloride; Pyroelectric; Electret; Dipoles; Glass; *15320. SP305-7.*
- zeoelectric; Polarization; Polyvinyl chloride; Pyroelectric; Dipoles; Electret; Glass; *16277. SP305-8.*
- Piezoelectric; Polymer electret; Poly(vinyl chloride); Pyroelectric; Electret; *13725. SP305-5.*
- Piezoelectric; Polymeric transducer; Polymers; Polyvinyl fluoride; Polyvinylidene fluoride; Stress gages; Transducers; *16141. SP305-8.*
- Piezoelectric; Polymers; Polyvinylidene fluoride; Pyroelectric; Radiometer; Transducers; Electrets; Hydrophone; *NBSIR 75-760. SP305-7.*
- Piezoelectric; Pulse laser power; Electrically calibrated pyroelectric detector; Gold-black; *16135. SP305-8.*
- Piezoelectric; System BaTiO<sub>3</sub>-SiO<sub>2</sub>; TiO<sub>2</sub> solvent; Ba<sub>2</sub>TiSi<sub>2</sub>O<sub>9</sub>; BaTiSiO<sub>5</sub>; Crystal growth; Fresnoite; Phosphor; *J74A No. 2, 229-232 (1970). SP305-2.*
- Piezoelectric; Test method; Thermal radiation; Thermal transient; Zero shift; Accelerometer; Performance characteristics; *TN855. SP305-7.*
- Piezoelectric; Vibrating-sample magnetometer; Bimorph; Cryogenic; Low-temperature; Magnetometer; *12046. SP305-3.*
- Piezoelectric accelerometer; Usable frequency range; Electrical excitation; Lowest resonant frequency; Mechanical excitation; *TN487. SP305-1.*
- Piezoelectric accelerometers; Reciprocity; Secondary standard; Vibration standard; Air bearing; Ceramic moving element; Electrodynamic shaker; *19277. SP305.*
- Piezoelectric accelerometers; Sun; Buildings; Computer codes; Computer networks; Computers; Copyrights; Energy; Epoxies; Hazard; Metric conversion; *DIM/NBS 59, No. 4, 73-96 (1975). SP305-7.*
- Piezoelectric crystal; Quartz crystal microscope; Aerosol sizing; Cascade impactor; Particle detection by impact; Particle size measurements; *SP412*, pp. 137-148. **SP305-6.**
- Piezoelectric d constant; Piezoelectricity; Relative humidity; Temperature; Bone; Dispersion phenomena; Maxwell-Wagner polarization; *16314. SP305-8.*
- Piezoelectric detector; Trace analysis; Air pollution; Chemical analysis; Industrial hygiene; Mercury; *15331. SP305-7.*
- Piezoelectric effect; Aerosol instrument performance; Aerosol measuring instruments; Beta-ray absorption; Doppler shift; Electromobility; Laser light scattering; Optical imaging; *SP412. SP305-6.*
- Piezoelectric modulus; Polymer; Polyvinylchloride; Transducer; Underwater sound; Piezoelectricity; *12276. SP305-3.*
- Piezoelectric oscillator; Poisson's ratio; Shear modulus; Young's modulus; Bulk modulus; Composite; Compressibility; Elastic compliance; Elastic stiffness; *15523. SP305-7.*
- Piezoelectric polymer; Polymer; Pressure; Pressure transducer; Theory; Transducer; Calibration; Construction; Impact; Interface; *NBSIR 75-740. SP305-7.*
- Piezoelectric polymers; Flexibility; Hydrophone; Impedance match; Low-cost transducers; *16291. SP305-8.*
- Piezoelectric sensor; Trace analysis; Air pollution; Chemical analysis; Dosimeter; Industrial hygiene analysis; Mercury; Personnel monitor; *15581. SP305-7.*
- Piezoelectric shaker; Stagger-tuned shaker; Vibration; Vibration pickup; Calibration; Damped resonant cylinders; Damping; *11346. SP305-2.*
- Piezoelectric stress gauge; Quartz; Slip bands; Dislocation velocity; High speed dislocations; Impact stress pulse; *SP336*, pp. 487-508. **SP305-3.**
- Piezoelectric transducer measurements; Transducer measurements; Ultrasonic instruments; Current probe; Impedance measurements; *13765. SP305-5.*
- Piezoelectric transducers; Standards of ultrasonic power; Ultrasonic power; Ultrasonic transducers; *14819. SP305-7.*
- Piezoelectric vibration; Secondary extinction; Theory; X-ray diffraction; Dynamical diffraction; Imperfections; Kinematical scattering; *12073. SP305-3.*
- Piezoelectricity; Piezoelectric modulus; Polymer; Polyvinylchloride; Transducer; Underwater sound; *12276. SP305-3.*

- Piezoelectricity; Polarization; Polymers; Polyvinylchloride; Polyvinylfluoride; Polyvinylidenefluoride; Electrets; *NBSIR 75-787. SP305-7.*
- Piezoelectricity; Polarization electrostriction; Polymer; Pyroelectricity; Electret; *16284. SP305-8.*
- Piezoelectricity; Poling; Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric coefficient; Pyroelectricity; *13546. SP305-5.*
- Piezoelectricity; Polymers; Polyvinylfluoride; Pyroelectricity; Infrared; *12352. SP305-3.*
- Piezoelectricity; Polymers; Polyvinylchloride films; G modulus; *12093. SP305-3.*
- Piezoelectricity; Polymers; Vibration generation; Elastomers; Electrets; Electrically controlled damping; Electrostriction; *10915. SP305-2.*
- Piezoelectricity; Polyvinylchloride; Polyvinylfluoride; *g* moduli; *12271. SP305-3.*
- Piezoelectricity; Pyroelectricity; Tendon; Bone; Collagen; Hydroxyapatite; *9470. SP305.*
- Piezoelectricity; Relative humidity; Temperature; Bone; Dispersion phenomena; Maxwell-Wagner polarization; Piezoelectric *d* constant; *16314. SP305-8.*
- Piezoelectricity; Theory; Thickness vibration; Vibrational modes; X-ray diffraction; Dynamical diffraction; Extinction; Kinematical diffraction; *11361. SP305-2.*
- Piezometry; Thermometry; Applications; Material detection; Nuclear quadrupole resonance; *15475. SP305-7.*
- Piezo-optic constants; Refractive index; Stress-optical constants; Thermal coefficient of refractive index; Birefringence; Elastooptic constants; Infrared-laser window materials; Interferometry; KCl; Photoelasticity; *NBSIR 76-1010. SP305-8.*
- Piezo-optic constants; Refractive index; Thermal coefficient of refractive index; Thermal expansion coefficient; ZnSe; BaF<sub>2</sub>; CaF<sub>2</sub>; Fused silica; Interferometry; Photoelasticity; *NBSIR 76-1115. SP305-8.*
- Piezo-optic constants; Thermal coefficient of refractive index; Thermal expansion coefficient; ZnSe; BaF<sub>2</sub>; CaF<sub>2</sub>; Fused silica; Interferometry; Photoelasticity; *SP462*, pp. 58-63 (Dec. 1976). *SP305-8.*
- Piezo-optical; Semiconductor; Silicon; Strontium titanate; Modulation technique; Optical; *9708. SP305-1.*
- Piezooptical coefficients; Resonance-photoelasticity; Stress-birefringence; Absorption edge; Birefringence; Dispersion of piezobirefringence; Gallium arsenide; Nonlinear piezobirefringence; Photo-elasticity; Piezobirefringence; *10941. SP305-2.*
- Piezo-optical constants; Refractive index; Elasto-optical constants; Infrared materials; KCl; Laser windows; Photoelasticity; *15937. SP305-8.*
- Piezoresistive effects; Semiconductors; Strontium titanate; *11309. SP305-2.*
- Piezoresistivity; Resistivity; Spreading resistance; Stress; Zero bias resistance; Correction factor; Crystallographic orientations; Effective contact radius; Interfaces; Metal-semiconductor contacts; Multilayered structure; *SP400-10*, pp. 17-26. *SP305-6.*
- Pigment; Photopigment; Vision; Absorption; Adaptation; Beer's law; Chromatic adaptation; Color vision; Concentration; Cones; Curve shape; High luminance; Metameric matches; *J72A No. 4, 309-340 (1968). SP305-1.*
- Pigment; Structure; Acid; Bile; Bilirubin; Biliverdine; Charge-transfer; Complex; Degradation; Iodine; Methyl-sulfoxide; Periodic; *12530. SP305-4.*
- Pigments; Polymers; Properties; Resins; Selection; Substrates; Surface preparation; Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant; Lacquer; Latex; Multicolor; *BSS7. SP305-1.*
- Pile head; Piles; Structural engineering; Design; Earthquake; Highway bridges; Lateral loads; *SP444*, pp. IV-90-IV-111 (Apr. 1976). *SP305-8.*
- Pile neutrons; Plutonium-239; Uranium-234; Uranium-235; Uranium-238; Cross sections; Fission; Neptunium-237; Neutron reactions; *15020. SP305-7.*
- Pile reactivity; Radiation effects; Radioactive; Research Reactor; Thermal neutron; Converter tube; Fast neutron; NSB *9866. SP305-1.*
- Piles; Structural engineering; Design; Earthquake; Highway bridges; Lateral loads; Pile head; *SP444*, pp. IV-90-IV-111 (Apr. 1976). *SP305-8.*
- Pilings; Soil corrosion; Steel; Steel piles; Underground; Corrosion; Permafrost; *11653. SP305-2.*
- Pill test; Room fires; Carpet systems; Carpets; Fire safety; Flame spread; Floor coverings; Flooring radiant panel test; Ignition sources; *NBSIR 76-1013. SP305-8.*
- Pillow cases; Pillows; Plastics; Rugs; Sheets; Springs; Upholstered furniture; Upholstery; Bedding; Beds; Blankets; Carpets; Curtains; Drapes; Fabrics; Fibers; Fire; Flammability; Flammable; Floor coverings; Furnishings; *TN498-1. SP305-2.*
- Pillow cases; Pillows; Rugs; Sheets; Springs; Wearing apparel; Apparel; Bedding; Beds; Blankets; Carpets; Clothing; Fabrics; Fibers; Fire; Flame; Flammability; Flammable; Floor coverings; Mattresses; *TN498. SP305-2.*
- Pillows; Plastics; Rugs; Sheets; Springs; Upholstered furniture; Upholstery; Bedding; Beds; Blankets; Carpets; Curtains; Drapes; Fabrics; Fibers; Fire; Flammability; Flammable; Floor coverings; Furnishings; *TN498. SP305-2.*
- Pillows; Rugs; Sheets; Springs; Wearing apparel; Apparel; Bedding; Beds; Blankets; Carpets; Clothing; Fabrics; Fibers; Fire; Flame; Flammability; Flammable; Floor coverings; Mattresses; *TN498. SP305-2.*
- Pilot ignition; Radiant heat flux; Carpets; Floor covering; Horizontal; Ignition; Ignition time; *NBSIR 75-967. SP305-8.*
- P-i-n junction; Charge carrier trapping; Effective Fano factor; Gamma-radiation; Ge(Li) detector; Intrinsic Fano factor; *11777. SP305-2.*
- Pineal; Apatite; Calcospherulites; Calculi; Petrography; *148. SP305-7.*
- Pin-end; Test method; Wall panels; Walls; Compression; Electric loading; Flat-end; Kern; Loading rate; *NBSIR 75-71. SP305-8.*
- Pinhole-type defects; Porcelain enamel; Scanning electron microscope; Weathering tests; Non-dispersive x-ray spectrometer; Corrosion; *13714. SP305-5.*
- Pion; Star formation; Cross sections; *SP425*, pp. 472-473. *SP305-7.*
- Pionic transitions;  $Su(3)$ ;  $Su(6)_c$ ; Baryon decays; Constituent quarks; Current quarks; *13642. SP305-5.*
- Pionization region; Quark model; Regge residue;  $Su(3)$ ; Symmetry relations; Inclusive reactions; *13868. SP305-6.*
- Pion-nucleon amplitudes; Pion-nucleon cross section; Pion-nucleon scattering; Pion-nucleus scattering; Sum rules; Dispersion relations; *15296. SP305-7.*
- Pion-nucleon cross section; Pion-nucleon scattering; Pion-nucleus scattering; Sum rules; Dispersion relations; Pion-nucleon amplitudes; *15296. SP305-7.*
- Pion-nucleon scattering; Pion-nucleus scattering; Sum rules; Dispersion relations; Pion-nucleon amplitudes; Pion-nucleon cross section; *15296. SP305-7.*
- Pion-nucleon scattering; Regge parameters; Sum rules; Charge exchange; Dispersion relations; Duality; Elementary particles; FESR; High energy scattering; *11703. SP305-2.*
- Pion-nucleon scattering; Sum rules; Dispersion relations; Pion-nucleon amplitudes; Pion-nucleon cross section; Pion-nucleon scattering; *15296. SP305-7.*

- ations; Protons; Radiation dosimetry; Radiation quality; Radiation transport theory; Absorbed dose distribution; Electrons; Heavy ions; Interpretation of measurements; Neutrons; 13331. SP305-5.
- ions; Radiobiology; Transport calculations; Depth dose; Dosimetry; Ionization chambers; 13190. SP305-5.
- pe; Pipelines; Underground; Soil corrosion; Cast iron; Corrosion; Ductile iron; Exposure sites; Ferrous metals; Gray iron; 11100. SP305-2.
- pe; Polyethylene (PE); Pressure; Standard dimension ratio (SDR); Inside diameter dimensions; Materials; PS11-69. SP305-2.
- pe; Polyethylene (PE); Schedule size (40 and 80); Dimensions; Materials; Outside diameter; PS12-69. SP305-2.
- pe; Polyethylene plastic; Schedule 40; Dimensions; Inside diameter; Materials; PS10-69. SP305-2.
- pe; Poly(vinyl chloride) (PVC); Pressure; Pressure rating (PR); Schedule 40, 80, and 120 sizes; Dimensions; Hydrostatic design stress; Materials; PS21-70. SP305-2.
- pe; Poly(vinyl chloride) (PVC); Pressure; Pressure rating (PR); Standard dimension ratio (SDR); Threads; Class T; Dimensions; Hydrostatic design stress; Materials; PS22-70. SP305-2.
- pe; Schedule size (40 and 80); Acrylonitrile-butadiene (ABS), outside diameter; Dimensions; PS18-69. SP305-2.
- pe; Soil corrosion; Steel; Titanium; Underground; Corrosion; Exposure sites; 11106. SP305-2.
- pe; Standard dimension ratio (SDR); Acrylonitrile-butadiene-styrene (ABS); Outside diameter dimensions; PS19-69. SP305-2.
- pe and fittings, steel, plastic lined; Plastic lined steel pipe; Polytetrafluoroethylene plastic lined pipe; PTFE lined pipe; Steel pipe and fittings, plastic lined; PS33-70. SP305-3.
- pe and fittings, steel, plastic lined; Plastic lined steel pipe; Steel pipe and fittings, plastic lined; FEP lined pipe; Fluorinated ethylene-propylene plastic lined pipe; PS34-70. SP305-3.
- pe and fittings, steel, plastic lined; Plastic lined steel pipe; Poly(vinylidene fluoride) plastic lined pipe; PVF<sub>2</sub> lined pipe; Steel pipe and fittings, plastic lined; PS35-70. SP305-3.
- pe phase; Smoke; Temperature; Vent pipe; Waste pipe; ABS, building fires; Drain pipe; Fire spread; 14227. SP305-6.
- pe diffusion; Vacancies in dislocations; Dislocation geometry; Dislocations; Kinks; SP317, pp. 563-576. SP305-3.
- pe flow measurement; Standards, flow measurement; Flow measurement, water; Instruments, flow measurement; Open channel flow measurement; SP421. SP305-7.
- pe piling; Pit depth; Polarization; Sheet piling; Undisturbed soil; Weight loss; Active region; Aerated soil; Corrosion; Disturbed soil; Excavated; Extracted; H-piling; Instantaneous corrosion rate; Mill scale; Permafrost region; Monogr. 127. SP305-4.
- pe pipeline inspection; Railroad inspection; Transportation; Vehicle inspection; Airport pavements; Bridge inspection; Neutron testing; 15213. SP305-7.
- pe pipelines; Underground; Soil corrosion; Cast iron; Corrosion; Ductile iron; Exposure sites; Ferrous metals; Gray iron; Pipe; 11100. SP305-2.
- perazine; Piperazine ion; Thermodynamics of ionization; Acid-base equilibria; Dissociation constant; Electrolyte; Ionization; 10655. SP305-1.
- perazine; PK; Thermodynamics; Dissociation constant; Ionization constant; Methanol; Mixed solvents; J.74A No. 5, 667-671 (1970). SP305-2.
- perazine phosphate; Buffer solutions; PH; 10364. SP305-1.
- perazinium ion; Thermodynamics of ionization; Acid-base equilibria; Dissociation constant; Electrolyte; Ionization; Piperazine; 10655. SP305-1.
- pets; Volumetric calibration; Burets; Capacity; Flasks; Meniscus; NBSIR 74-461. SP305-7.
- Piping; Steam; Underground piping; Heat distribution; Heating; High temperature water; Hot water; Insulation; BS566, pp. 52-59. SP305-7.
- Pirronite; Carbonates; Crystal structure; Gaylussite; Hydrated carbonates; Hydrates; 11289. SP305-2.
- Piston; Precision attenuator; Sensor; Waveguide-below-cutoff; Absolute (unambiguous) readout; NBSIR 74-394. SP305-7.
- Piston; Precision attenuator; Sensor; Waveguide-below-cutoff; Absolute (unambiguous) readout; NBSIR 76-833. SP305-8.
- Piston gages; Pressure measurement; Vane gages; Vapor pressure measurement; Calibration techniques; Capacitance pressure gages; Gas column manometers; Manometers; Meteorographs; Micromanometers; Monogr. 114. SP305-2.
- Piston gages; Pressure measurement; Calibration; 14931. SP305-7.
- Piston gauge; Pressure measurement; Transition pressure; High pressure; 10159. SP305-1.
- Piston radiator; Potential diffraction; Radiator, piston; Sound; Acoustics; Diffraction, potential; 9319. SP305.
- Pit and fissure sealant; Phosphoric acid; Enamel; Hydroxyapatite; Monocalcium phosphate monohydrate; 13856. SP305-6.
- Pit and fissure sealant; Tooth enamel; Dicalcium phosphate dihydrate; Fluorapatite; Fluoride; 15565. SP305-7.
- Pit and fissure sealants; Preventive dental materials; Acrylic resins; Chemistry; Composite resins; Dental materials; Hydroxybenzoic acids; 15939. SP305-8.
- Pit depth; Pitting factor; Polarization; Steel piling; Undisturbed soil; Weight loss; Corrosion; Corrosion rate; Disturbed soil; Instantaneous rate; J.75C No. 2, 107-121 (1971). SP305-3.
- Pit depth; Polarization; Sheet piling; Undisturbed soil; Weight loss; Active region; Aerated soil; Corrosion; Disturbed soil; Excavated; Extracted; H-piling; Instantaneous corrosion rate; Mill scale; Permafrost region; Pipe piling; Monogr. 127. SP305-4.
- Pit depth; Polarization curve; Average penetration rate; H-piles; Instantaneous corrosion rate; Linear polarization; Monogr. 128. SP305-4.
- Pit depth; Recorder; Stern-Geary equation; Synthetic sea water; Weight loss; Bridge circuit; Change of pH; Instantaneous corrosion rates; Pearson equation; 11658. SP305-2.
- Pit volume; Q-switched ruby laser; Quantitative; Spark excitation; Spectral intensity; Spectrochemical analysis; High energy; High power; Laser probe; Laser vaporization; Photographic emulsion; 10005. SP305-1.
- Pitch measurement; Fine structure constant; Fundamental constant; Gyromagnetic ratio of proton; NBS ampere; 13100. SP305-5.
- Pitch perception; Theories of hearing; Diplacusis; Hearing; Hearing loss; Masking; Physiology of hearing; 10525. SP305-1.
- Pitch recognition; Absolute pitch sense; Audition; Auditory memory; Hearing; Musical acoustics; 13556. SP305-5.
- Pitchover; Standards, bicycle safety; Test method, bicycle; Bicycle brakes; Brakes, bicycle; Dynamics, bicycle; Error analysis; Friction, tire/pavement; Kinetics, bicycle; Measurements, bicycle braking; NBSIR 75-786. SP305-8.
- Pitting; Breakdown passivity; Chloride; Ellipsometry; Iron; Passivity; 15081. SP305-7.
- Pitting; Pitting corrosion; Corrosion; Corrosion currents; Electroplating; Galvanic corrosion; 9490. SP305.
- Pitting; Spectroscopy; Ellipsometry; Iron; Kinetics; Optical constants; Passive; 16216. SP305-8.
- Pitting corrosion; Corrosion; Corrosion currents; Electroplating; Galvanic corrosion; Pitting; 9490. SP305.
- Pitting corrosion; Corrosion currents; Galvanic cells; Galvanic currents; Laplace's equation; 10155. SP305-1.
- Pitting corrosion; Stainless steel; X-ray analysis; Electron microscopy; Fe-Cr alloys; Passive films; 16024. SP305-8.

- Pitting factor; Polarization; Steel piling; Undisturbed soil; Weight loss; Corrosion; Corrosion rate; Disturbed soil; Instantaneous rate; Pit depth; *J.75C No. 2, 107-121 (1971)*. SP305-3.
- Pivot operations; Skew symmetry; Combinatorial equivalence; Linear inequalities; Linear programs; *16127. SP305-8*.
- Pivot operations; Skew-symmetry; Combinatorial equivalence; Linear inequalities; Linear programs; *J.78B No. 4, 181-191 (1974)*. SP305-6.
- PK; Thermodynamics; Acidity; Bis-tris; 2,2-bis(hydroxymethyl)-2,2',2''-nitrotriethanol; Buffer solutions; Dissociation constant; Ionization constant; PH; *11602. SP305-2*.
- PK; Thermodynamics; Acidity; Deuteriophosphoric acid; Deuterium oxide; Dissociation constant; Emf measurements; Isotope effects; Phosphoric acid; *11601. SP305-2*.
- PK; Thermodynamics; Dissociation constant; Ionization constant; Methanol; Mixed solvents; Piperazine; *J.74A No. 5, 667-671 (1970)*. SP305-2.
- pK* values in ethanol-water; Sigma constants in ethanol-water; Substituted benzoic acids; Allyl- and propenylbenzoic acids; Change of *pK* with dielectric constant; Hammett sigma constants; Ionization constants; *J.71A5-468, 379-384 (1967)*. SP305.
- PL 90-472; Product certification; Standards; U.S. Metric Study; Engineering standards; IEC; International standardization; ISO; Metric study; *SP345-1. SP305-2*.
- PL 93-597; Privacy; Privacy Act of 1974; Privacy compliance techniques; Privacy costs; Privacy model; Security costs; Computer security; Confidentiality; Cost model; Data security costs; *TN906. SP305-8*.
- Plages; Radiative transport; Solar chromosphere; Solar spectrum; Sunspots; Wilson-Bappu effect; Ca H and K lines; Non-LTE line formation; *12106. SP305-3*.
- Planar; Propagation function; Pulse; Receiving end; Skin effect; Step response; Time domain; Voltage divider; Asymptotic expansion; Characteristic impedance; Coaxial line; Complementary error function; Conductor; Cylindrical; Dielectric; Error; Generator; Lossy; Microminiature; *14347. SP305-6*.
- Planar; Proximity; Rhombic; Spacing; Antenna; Comparison; Co-planar; Gain; Interactions; Mutuals; Nested; Patterns; *11467. SP305-2*.
- Planar graphs; Planar networks; Road location; Steiner's problem; Street-network problem; Transportation theory; Optimal interchange location; Optimal networks; Optimal road layout; *11633. SP305-2*.
- Planar graphs; Thickness of graphs; Two-connected graphs; Blocks; Combinatorics; Examples of graphs; Graph theory; Minimal blocks; *J.77B Nos. 1 and 2, 53-60 (1973)*. SP305-5.
- Planar graphs; Thickness of graphs; *t*-minimal graphs; Bipartite graphs; Graph theory; Mathematics; *J.72B No. 2, 145-153 (1968)*. SP305-1.
- Planar molecular structure; Spherical shell molecules; Vitreous state; Arsenious oxide; Arsenolite; Claudeite; Crystal transition; Cubic crystal; Glass; Heat capacity; Monoclinic crystal; Low temperature; *12311. SP305-3*.
- Planar near field measurements; Broadbeam antennas; *16470. SP305-8*.
- Planar networks; Road location; Steiner's problem; Street-network problem; Transportation theory; Optimal interchange location; Optimal networks; Optimal road layout; Planar graphs; *11633. SP305-2*.
- Planar scanning; Plane-wave spectrum; Antennas; Error analysis; Far-field pattern; Near-field measurements; *TN667. SP305-7*.
- Planar test structure; Resistivity; Semiconductor characterization; Semiconductor device; Silicon; Square array; Bulk resistivity; Collector resistivity; Four-probe; *16424. SP305-8*.
- Planarity; Cover glass, test method for; Hemacytometer; Interferometry; *TN579. SP305-3*.
- Planck; Pyrometry; Radiance; Rayleigh; Stefan; Temperature; Wien; Boltzmann; Draper; Jeans; Kirchhoff; Optical; *978. SP305-1*.
- Planck equation; Rayleigh-Jeans equation; Spectral radiance; Wien equation; Brightness temperature; Color temperature; Effective wavelength; Infrared and far infrared optical pyrometry; *9310. SP305*.
- Planck function; Source function; Spectral lines; Continuous absorption; Non-coherent scattering; *10369. SP305-1*.
- Plane blending; Dislocation distributions; Mechanical properties; *SP317, pp. 925-941. SP305-3*.
- Plane electromagnetic wave; Expectation values; Klein-Gordon equation; *13696. SP305-5*.
- Plane frame structures; Test results; Use of structural analysis; Analysis and performance tests combined; Computerized analysis; *SP361, Vol. 1, pp. 535-543. SP305-4*.
- Plane Geometry; Radial center; Triangle of reference; Area coordinates; Distance coordinates; *J. 76B Nos. 3 and 4, 14-152 (1972)*. SP305-4.
- Plane grating; Ray tracing; Spectrograph; Aberrations; Czerny-Turner; Geometrical optics; *11431. SP305-2*.
- Plane strain; Thermal stress; Yield stress; Elastic stress; Heat transfer; *J.70B4-188, 265-272 (1966)*. SP305.
- Plane wave impulse approximations; Quasi-free scattering; Separable potentials; Three-body problem; Confidence cross sections; *<sup>3</sup>He(pd)* vertex; *13012. SP305-4*.
- Plane-polarized photons; Giant resonances; Nuclear photo-scattering; Nuclear surface oscillations; *14811. SP305-7*.
- Planetary atmospheres; Reflectivity; Spectral line scattering; Emissivity; *12775. SP305-4*.
- Planetary atmospheres; Reflectivity; Emissivity; Kirchhoff's Law; Lunar surfaces; *13025. SP305-4*.
- Planetary atmosphere-surface interaction; Planetary meteorology; Research facility; Simulation techniques; Space research; Convective processes; Mars atmosphere exploration; *SP33, pp. 699-723. SP305-3*.
- Planetary entry; Radiation; Ablation; Evaluation; Heat shield; Heat transfer; *SP336, pp. 751-812. SP305-3*.
- Planetary meteorology; Research facility; Simulation techniques; Space research; Convective processes; Mars atmosphere exploration; Planetary atmosphere-surface interaction; *SP336, pp. 699-723. SP305-3*.
- Planetary nebula; Spectral line formation; Doppler broadening; Escape probability; *12180. SP305-3*.
- Planetary nebulae; Band model; Line formation; *11171. SP305-2*.
- Planetary nebulae; Radiation; Ionization structure; Lyman continuum problem; *10443. SP305-1*.
- Planetary nebulae; Radiative transfer; Velocity gradient; Balmer lines; Lyman continuum; Non-coherent scattering; Optical depth; *10755. SP305-1*.
- Planetary nebulae; Radiative transfer; Spectral lines; Velocity fields; *10994. SP305-2*.
- Planetary nebulae; Recombination spectra; Forbidden lines; Nebular spectra; *13817. SP305-6*.
- Planetary nebulae; Stellar atmospheres; Transfer equation; *11815. SP305-3*.
- Planetary quarantine; Polymers; Shock force; Space simulation; Testing; Volatile products; Absorption; Condensation; Contamination control; Evaluation; Far infrared; Fluid dynamics; Microorganisms; Optical properties; *SP336, pp. 51-7. SP305-3*.
- Planetary reconnaissance; Spectral reflectance; Spectrum; Reflected sunlight; Ultraviolet and visible wavelength; *10644. SP305-1*.
- Plane-wave spectrum; Antennas; Error analysis; Far-field pattern; Near-field measurements; Planar scanning; *TN6. SP305-7*.
- Plane-wave tubes; Wedges; Anechoic chamber design; *130. SP305-5*.



- Plankton; Sediments; Total mercury; Water; Chesapeake Bay; Elemental sulfur; Flameless atomic absorption; Petroleum; 15874. **SP305-8.**
- Planning; Conference proceedings; Contract research; Federal government; Information exchange; NBS; Operations research/systems analysis studies; OR users and producers; *SP347. SP305-3.*
- Planning; Present value analysis; Analysis; Construction; Cost; Design; Economics; Flexibility; Law enforcement facilities; Performance; 14961. **SP305-7.**
- Planning; Programming; Architecture; Building systems; Construction management; Design; Hospital design; Medical facilities; Performance; *BSS54*, pp. 49-62. **SP305-6.**
- Planning; Standards; United States; Units of measures; Changeover; Foreign trade; Metric system; Paper machines; 12991. **SP305-4.**
- Planning; Veterans' Administration; Criteria; Hospital planning; Medical facilities; *BSS54*, pp. 25-26. **SP305-6.**
- Planning; Veterans' Administration; Computer-aided planning; Design; Electronic data processing; Hospital planning; Medical facilities; *BSS54*, pp. 27-30. **SP305-6.**
- Planning and design basis; User characteristics; Human activities; Performance criteria; Physical environment; *SP361*, Vol. 1, pp. 13-22. **SP305-4.**
- Planning and scheduling; Building regulations; Dimensional coordination; Metric conversion; 16556. **SP305-8.**
- Planning and scheduling; Building regulations; Dimensional coordination; Metric conversion; *TN915. SP305-8.*
- Plant engineering; Product standards; Specifications; Standardization; Standards; Information sources; KWIC Index; 12804. **SP305-4.**
- Plant location; Production functions; Transportation; Weber problem; mathematical programming; *CES*; Economics; Leontief; Location theory; *J.78B No. 2*, 79-94 (1974). **SP305-6.**
- Platinum; Wrought gold wire; X-ray emission; Casting gold alloys; Chemical composition; Dental gold alloys; Gold; 11579. **SP305-2.**
- Plasma; Absorption; Bremsstrahlung; Electrons; Ions; Laser; 15532. **SP305-7.**
- Plasma; Chromatography; Coupling of high speed plasma; Gas chromatography; High speed plasma; 16340. **SP305-8.**
- Plasma; Continuum; Emission intensity; Hydrogen; 14615. **SP305-6.**
- Plasma; Correlator; Cross-correlator; Diffusion coefficient; Digital correlator; Frequency-sweep; 11094. **SP305-2.**
- Plasma; Cyclotron harmonic radiation; Electron beam; Magnetic field; 9985. **SP305-1.**
- Plasma; Electron cyclotron frequency; Emission; Harmonic; Magnetic field; 10719. **SP305-1.**
- Plasma; Gas breakdown; Laser; 13459. **SP305-5.**
- Plasma; Gas breakdown; 13010. **SP305-4.**
- Plasma; Plasma broadening; Pressure broadening; Scattering matrix; Spectral line broadening; Stark broadening; Symmetry group; Time ordering; Balmer lines; Four dimensional rotation group; Hydrogen; 15009. **SP305-7.**
- Plasma; Polarization; Propagation; Alfvén; Dispersion; Hydromagnetic; Magnetosphere; Multicomponent; P c micropulsations; *TN342. SP305.*
- Plasma; Radial distribution; Recombination mechanisms; Collisional-radiative recombination; Electron beam; Electron density; Light density; Nonlinear diffusion; 9956. **SP305-1.**
- Plasma; Radiometry; Spectral radiance; Vacuum ultraviolet; Wall-stabilized; Arc; Calibrations; Hydrogen; 15291. **SP305-7.**
- Plasma; Resonance; Vacuum ultraviolet; Arc; Hydrogen; Negative ion; 15652. **SP305-7.**
- Plasma; Slotted-sphere antenna; Antenna; Compressible plasma; 10249. **SP305-1.**
- Plasma; Spectrometric; Electron temperature; Langmuir probe; 9382. **SP305.**
- Plasma; Spectroscopy; Transition probability; Argon; 10071. **SP305-1.**
- Plasma; Stark; Balmer; Broadening; Dynamic; Ion; 13962. **SP305-6.**
- Plasma; Stark broadening; Balmer; Hydrogen; Ion dynamics; 15064. **SP305-7.**
- Plasma; Stark broadening; Sulfur; Transition probability; Arc; Atomic spectroscopy; 10209. **SP305-1.**
- Plasma; Time resolution; Density; Diagnostic; Electron; Interferometry; Microwave; 9698. **SP305-1.**
- Plasma; Time-average; Distribution; Holtsmark; Ion dynamics; Microfield; 13466. **SP305-5.**
- Plasma; Time-dependent microfield; Cluster expansion; Collective-coordinates; Distribution; Ion correlations; Microfield; 14473. **SP305-6.**
- Plasma; Truncation error; Vlasov equation; Expansion coefficients; Hermite polynomials; Non-linear; Numerical; *J.73B No. 4*, 281-291 (1969). **SP305-1.**
- Plasma; T-tube; Carbon it; Coulomb approximation; Electron density; Electron temperature; Equivalent electrons; Local thermal equilibrium; Oscillator strength (f-value); Optical depth; Oxygen it; 9388. **SP305.**
- Plasma arcs; Stark broadening; Temperature measurement; *H<sub>β</sub>* profiles; 11126. **SP305-2.**
- Plasma broadening; Pressure broadening; Scattering matrix; Spectral line broadening; Stark broadening; Symmetry group; Time ordering; Balmer lines; Four dimensional rotation group; Hydrogen; Plasma; 15009. **SP305-7.**
- Plasma chromatography; Sampling; Automated systems; Fluidic logic; Gas chromatography; 15106. **SP305-7.**
- Plasma density; Collision frequency; Helium negative glow discharge; Microwave cavity; *TN607. SP305-3.*
- Plasma diagnostic techniques; Stark effect; Dense plasma; Line broadening; 9195. **SP305.**
- Plasma diagnostics; Plasma probes; Diffusive Flux; 11597. **SP305-2.**
- Plasma diagnostics; Probes; Plasma physics; 11552. **SP305-2.**
- Plasma diagnostics; Radiance profile; Abel inversion; Abel transform; Emissivity profile; *TN368. SP305-1.*
- Plasma diagnostics; Radiating gases; Radiative transfer; Spectral lines; Transfer equation; 13236. **SP305-5.**
- Plasma emission; Round robin; X-ray fluorescence; Accuracy; Anodic stripping voltammetry; Arc emission spectroscopy; Atomic absorption; Environmental analyses; Interlaboratory tests; Neutron activation analysis; *SP422*, pp. 199-210 (Aug. 1976). **SP305-8.**
- Plasma fluctuation; Auto-correlation function; Distribution function; Kinetic theory; 10207. **SP305-1.**
- Plasma formation; Polishing compound; Absorption; Electron avalanche; Laser damage; *SP387*, pp. 69-79. **SP305-5.**
- Plasma frequency; Absorption cross section; Index of refraction; Nuclear matter; Optical properties; Photon; *J. Res. 80A No. 1*, 9-13 (1976). **SP305-8.**
- Plasma jet; Atomic properties; Atomic spectra; Chemical analysis; Chemiluminescent and fuel-rich flames; Controlled atmospheres; 9929. **SP305-1.**
- Plasma jet; Preconcentration; Pulse height analyzer; Spectrochemical analysis; Spectroscopy; Standard reference materials; Time-shared computer; X-ray spectroscopy; Analysis; Arc temperature; Atomic absorption spectrometry; Analog computer; Bibliography; *TN401. SP305.*
- Plasma jet; Spark discharge; Spectrochemical analysis; Arc discharge; Excitation sources; Fuel-rich flames; High-frequency torch; Laser probe; 10708. **SP305-1.**
- Plasma line broadening; Spectral lines; Stark broadening; Stark shifts; Stark widths; Nitrogen; 16406. **SP305-8.**
- Plasma oscillations; Adsorption; Electron emission; Junctions; Low energy electron diffraction; 11688. **SP305-2.**

- Plasma physics; Plasma diagnostics; Probes; 11552. SP305-2.
- Plasma physics; Recurrence relations; Asymptotic solutions; Chebyshev polynomials; Difference equations; Evaluation of integrals; Numerical stability; Olver's algorithm; 13197. SP305-5.
- Plasma physics; Truncation; Vlasov equation; Eigenfunction; Landau damping; Non-linear; Numerical solution; 10780. SP305-1.
- Plasma polymerized; Laser window coating; SP462, pp. 230-238 (Dec. 1976). SP305-8.
- Plasma polymers; Tissue reaction; Biocompatibility; Inflammatory response; SP415, pp. 13-17. SP305-7.
- Plasma probes; Diffusive Flux; Plasma diagnostics; 11597. SP305-2.
- Plasma production; Scattering sites; Dielectric mirror; Electron avalanche; Laser damage mechanisms; Laser induced damage; Laser monitoring; SP372, pp. 108-122. SP305-4.
- Plasma radiative losses; Sodium isoelectronic sequence; Tokamak plasmas; Atomic oscillator strengths; Beam-foil spectroscopy; Fusion plasma research; 16320. SP305-8.
- Plasma resonance; Radio sounding; Satellite; Topsis; Aurora; Electrostatic wave; Ionosphere; Ionospheric ducting; Ionospheric irregularity; Ionospheric scattering; 9615. SP305-1.
- Plasma resonance; Reflectance; Antimony; Bismuth; Collective oscillations; Dielectric constant electron-energy-losses; Free-electron gas optical properties; 11464. SP305-2.
- Plasma sources; Spark broadening; Atomic line shapes; Critical review; Hydrogen lines; 13941. SP305-6.
- Plasma spectrometry; Preliminary analysis; Specimen decomposition; Specimen evaporation; SP422, pp. 621-625 (Aug. 1976). SP305-8.
- Plasma theory; Shock wave; Solar wind; Earth magnetic field; Earth tail; Magnetosphere; SP336, p. 297. SP305-3.
- Plasma torch; Platinum analysis; Preconcentration; Selenium analysis; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Sulfur analysis; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; TN422. SP305-1.
- Plasma torch; Platinum analysis; Preconcentration; Silicon detector; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; TN452. SP305-1.
- Plasma torch; Radio-frequency; Spectrochemical analysis; Atomic absorption spectrometry; Atomic emission spectrometry; Detection limits; Interference effects; 11172. SP305-2.
- Plasma-formed polymers; Polymer films; Polymerization; Polymer permeability; SP415, pp. 1-12. SP305-7.
- Plasmaron; Soft x-ray; Aluminum; Electron gas; Emission spectrum; Excitations; 10889. SP305-2.
- Plasmon; Aluminum oxide; Characteristic energy loss; Cross section; Dielectric constant; Oscillator strength; 10439. SP305-1.
- Plasmon; Pseudopotential; Quasi-particle; Satellite structure; Electronic density of states; Free-electron like metals; Interband absorption; Optical properties; SP323, pp. 125-127. SP305-4.
- Plasmon; Secondary emission; Silver (Ag); Copper; Dielectric constant; Direct interband transitions; Electronic density of states; Interband transition; Korringa-Kohn-Rostoker (KKR); "muffin-tin" potential; Palladium (Pd); SP323, pp. 181-189. SP305-4.
- Plasmon damping; Aluminum; Characteristic electron energy loss half-width; Corrected theory; Metals; 9966. SP305-1.
- Plasmon energy losses; Tungsten; Adsorbed atomic layers; Cesium; Inelastic-electron scattering; Metal-insulator transition; 11920. SP305-3.
- Plasmon satellite; Soft x-ray; Electronic density of states; Light metals; Many-body effects; SP323, pp. 273-274. SP305-4.
- Plasmons; Scatter; Absorption; Dielectric layers; Irregularities; Metallic thin films; Microirregularities; Overcoating; *J. Res. 80A* No. 4, 643-658 (1976). SP305-8.
- Plasmons; Singularities; Soft x-rays; Alloys; Auger transitions; Density of states; Many-body interactions; *J.74A* No. 2, 273-279 (1970). SP305-2.
- Plasmons; Singularities; Soft x-rays; Alloys; Auger transitions; Density of states; Many-body interactions; SP323, pp. 287-293. SP305-4.
- Plaster of paris; Setting mechanisms; Colloidal theory; Crystallization theory; Gypsum; Hydration; Induction period TN755. SP305-5.
- Plastic; Plumbing; Porcelain; Sieve; Silica; Sinks; Abrasives; Bathtubs; Cleansers; Detergents; Particle; 10135. SP305-1.
- Plastic; Plumbing equipment; Tanks; Valves; Bowls; Brass; Dimensions; Nuts; 66-66. SP305.
- Plastic; Porcelain adhesion; Resin; Silane; Teeth; Bonding; Coupling agent; Denture; 9494. SP305.
- Plastic; Reinforced-polyester; Tanks; Chemical-resistant; Con tact-molded; Ducts; Equipment; PS15-69. SP305-2.
- Plastic containers for petroleum products; Containers for petroleum products; Jerry-cans; Petroleum products, containers for; PS61-74. SP305-7.
- Plastic crystal; Quasielastic; Activation energy; Cold neutron Correlation time; Diffusion constant; Molecular reorientation Neopentane; Neutron scattering; 11547. SP305-2.
- Plastic crystal; Raman; And rotational diffusion; Band shape analysis; Diffusion models; Infrared; Jump diffusion; Molecular reorientation; Neopentane; Phase transition; 13773. SP305-5.
- Plastic crystal; Rotational; Spherical molecules; Diffusion; Light scattering; Neutron scattering; 11953. SP305-3.
- Plastic deformation; Atomic order; Crystalline structure; Phase transformations; 11178. SP305-2.
- Plastic deformation; Plastic zone size; Temper embrittlement Austenitic steels; Carbide precipitation; Fatigue crack propagation; 11183. SP305-2.
- Plastic deformation; Polycrystalline alumina; Strength; Surface features; Thermal expansion anisotropy; Fracture surface energy; Machining damage; 14037. SP305-6.
- Plastic deformation; Polycrystalline; Fine-grain ceramics; Grain boundary; 14393. SP305-6.
- Plastic deformation; Polymer crystals; Radiation damage; X-ray topography; Microstructure; Paraffin crystals; 15433. SP305-7.
- Plastic deformation; Polymer solids; Fibrous structure; 1555. SP305-7.
- Plastic deformation; Proportional limit; Crack propagation; Determination of stress; Measurement; Mechanical test 16468. SP305-8.
- Plastic deformation; Sapphire; Sodium chloride; Electron microscopy; Fracture; Mechanical properties; NBS/R 73-29. SP305-6.
- Plastic deformation; Sapphire; Strength; Alumina; Fracture; Mechanical properties; 12282. SP305-3.
- Plastic deformation; Sapphire; Strength; Transmission electron microscopy; Alumina; Crack growth; Critical stress intensity factor; Fracture; 13853. SP305-6.
- Plastic deformation; Single crystals; Deformational twinning; Dislocations; Hardness test; Lattice friction; 14392. SP305-5.
- Plastic deformation; Single-crystal aluminum; Slip band; Vaporization; Laser-induced stress; SP462, pp. 165-170 (Dec. 1976). SP305-8.
- Plastic deformation; Slip; Transmission electron microscopy; Twinning; Aluminum oxide; Microhardness; 15825. SP305-5.
- Plastic deformation; Sodium chloride; Surface energy; Cleavage; Fracture; Fracture energy; 11607. SP305-2.
- Plastic deformation; Sorption; Crazing; Crystalline polymer solid; Diffusion; Elastic deformation; Permeability; 152. SP305-7.

lastic deformation; Static crush tests; Strain measurements; Structural components; Test procedures; Automobile side impact; Crush characteristics; Displacement measurements; Door structure; Drop tests; Dynamic crush tests; Impact collisions; *NBSIR 74-605. SP305-7.*

lastic deformation; Surface condition; Surface grinding; Ceramics; Etch pits; Fracture; Grinding damage; *SP348, pp. 317-332. SP305-4.*

lastic deformation; Surface regions; Transmission electron microscopy; Twinning; Abrasion; Alumina; Annealing; Dislocations; Electron microscopy; Indentation; *12498. SP305-4.*

lastic deformation; Surfaces; Wear; Electron channeling; Iron; Metals; *16523. SP305-8.*

lastic deformation; Surfaces; Wear; Electron channeling; Iron; Metals; *NBSIR 76-992. SP305-8.*

lastic deformation; Surfaces; Wear; Wear debris; X-ray analysis; Copper; Electron channeling; Electron microscopy; Metals; Particle analysis; *NBSIR 76-1141. SP305-8.*

astic dosimeters; Radiochromic dyes; Thin films; Absorbed dose; Calorimetry; Cavity theory; Depth dose; Dosimetry; Dye dosimeters; Electron beams; Gamma rays; *13559. SP305-5.*

astic films; Poly(ethylene terephthalate); Proton damage; Proton energy; Radiation effect; Radiation intensity; Recovery; Solubility; Space simulation; Temperature effect; Tests; Viscosity; Electron damage; Electron energy; *SP336, pp. 323-344. SP305-3.*

astic films; Polymethyl methacrylate; Polyvinyl chloride; Radiation processing; Radiochromic dyes; Absorbed dose rate; Cellulose triacetate; Dosimetry; Dyed cellophane; Dyed plastics; Electron beams; Gamma radiation; *15278. SP305-7.*

astic flow; Poisson ratio; Refractory metals; Strain hardening; Strain rate; Stress strain diagrams; Tantalum; Tensile properties; Evaluation; High temperature tests; Molybdenum; *13819. SP305-6.*

astic heat-shrinkable film; Retraction ratio; Shrink film, plastic; Balanced and unbalanced film; Film, plastic; Orientation release stress; *PS29-70. SP305-3.*

astic lined steel pipe; Polytetrafluoroethylene plastic lined pipe; PTFE lined pipe; Steel pipe and fittings, plastic lined; Pipe and fittings, steel, plastic lined; *PS33-70. SP305-3.*

astic lined steel pipe; Poly(vinylidene fluoride) plastic lined pipe; PVF<sub>2</sub> lined pipe; Steel pipe and fittings, plastic lined; Pipe and fittings, steel, plastic lined; *PS35-70. SP305-3.*

astic lined steel pipe; Steel pipe and fittings, plastic lined; FEP lined pipe; Fluorinated ethylene-propylene plastic lined pipe; Pipe and fittings, steel, plastic lined; *PS34-70. SP305-3.*

astic material; Poly (vinyl chloride) siding; Siding, poly (vinyl chloride); Weathering of plastic siding; Building materials; Flammability of outdoor siding; *PS55-72. SP305-4.*

astic material; Simulation; Solar ultraviolet radiation; Atmospheric environment; Balloon; Computer; Ozone; *SP336, pp. 245-259. SP305-3.*

astic milk containers; Farm milk tanks; Milk handling; Milk meters; *10371. SP305-1.*

astic panels, structural; Structural panels; Glass-fiber reinforced polyester panels; Panels, glass-fiber reinforced polyester; *PS53-72. SP305-4.*

astic pipe; PVC; Smoke; Toxic gases; Vent; Waste; ABS; Cast iron; Copper; Drain; Fire endurance; Fire spread; Fire test; Operation BREAKTHROUGH; *NBSIR 74-449. SP305-7.*

astic pipe plumbing; PVC; Smoke; ABS; DWV; Fire endurance; Fire spread; Fire test; Gases; *BSS72. SP305-7.*

astic pipes; Thermal conductivity; Computer; Cryogenic; Cryptography; Data; Energy labeling; Energy needs; Fluid safety; Materials; NBS, GSA experiment; Optical spectra; *DIM/NBS 59, No. 9, 193-216 (1975). SP305-7.*

Plastic reinforced restoratives; Restorative materials; Temporary dental cements; Dental restorative materials; EBA cements; *11996. SP305-3.*

Plastic sheet; Polystyrene plastic sheet; Sheet, plastic; Impact resistance, plastic sheet; Oriented sheet; *PS31-70. SP305-3.*

Plastic tape; Polytetrafluoroethylene; Resin skived tape; Skived tape; TFE-fluorocarbon; Electrical tape, plastic; *PS3-66. SP305.*

Plastic tubing, fluorinated ethylene-propylene; Tubing, FEP-fluorocarbon; Chemical, mechanical, and electrical tubing; FEP tubing; Fluorocarbon plastic tubing; *PS43-71. SP305-3.*

Plastic tubing, fluorocarbon; PTFE heat-shrinkable tubing; Tubing, heat-shrinkable fluorocarbon plastic; FEP heat-shrinkable tubing; Fluorocarbon plastic heat-shrinkable tubing; *PS47-71. SP305-3.*

Plastic tubing, polytetrafluoroethylene; PTFE tubing; Tubing, PTFE-fluorocarbon; Chemical, mechanical, and electrical tubing; Fluorocarbon plastic tubing; *PS52-71. SP305-4.*

Plastic zone; Crack propagation; Fatigue; *11184. SP305-2.*

Plastic zone size; Temper embrittlement; Austenitic steels; Carbide precipitation; Fatigue crack propagation; Plastic deformation; *11183. SP305-2.*

Plastic zone sizes; Stress intensity factor; Fatigue crack propagation; Fatigue of steels; High cyclic bending; *12627. SP305-4.*

Plastic-bonded; Soils; Telephone cables; Underground; Alloys; Corrosion; Metallurgically-bonded; Metals; *16352. SP305-8.*

Plasticity; Burgers vector; Compatibility; Continuum; Contortion; Cosserat; Couple-stress; Defect; Deformation; Disclination; Dislocation; Dualism; Elasticity; Incompatibility; Motor calculus; *SP317, pp. 651-673. SP305-3.*

Plasticity; Burgers vector; Continuous defect distribution; Disclination; Dislocation; Distortion elasticity; Frank vector; Loop; *13844. SP305-6.*

Plasticity; Ceramic materials; Cyclic crack propagation; High frequency; *16445. SP305-8.*

Plasticity; Polyvinyl chloride; Servo-hydraulic system; Viscoelasticity; Yield point; Biaxial; Fatigue; Fracture; Laboratory automation; Mechanical testing; *16626. SP305-8.*

Plasticity; Proportional limit; Flow surface; Multiaxial stresses; *15802. SP305-8.*

Plasticity; Stainless steel; Stress relaxation; Thermodynamics; Viscoelasticity; Creep; Dissipation; Elevated temperature; Energy; Hold-time; Hysteresis; Low-cycle fatigue; *16004. SP305-8.*

Plasticity; Strain; Burgers vector; Continuum mechanics; Defect; Disclination; Dislocation; Distortion; Green's tensor; Incompatibility; *J.77A No. 3, 359-368 (1973). SP305-5.*

Plasticity; Strain; Volterra; Burgers vector; Continuum mechanics; Defect; Dipole; Disclination; Dislocation; Distortion; Green's tensor; Incompatibility; Loop; *J.77A No. 1, 49-100 (1973). SP305-5.*

Plasticity; Strain; Volterra; Burgers vector; Continuum mechanics; Defect; Dipole; Disclination; Dislocation; Distortion; Green's tensor; Incompatibility; Loop; *J.77A No. 5, 607-658 (1973). SP305-5.*

Plasticity; Strain; Volterra; Continuous; Continuum; Defect; Disclination; Discrete; Dislocation; Distortion; Green's function; Incompatibility; *12997. SP305-4.*

Plasticity; Strain hardening; Work hardening; Equivalent strain; Hardening; *J.76C Nos. 1 and 2, 53-54 (1972). SP305-4.*

Plasticity; Thermal activation; Dislocations; *14246. SP305-6.*

Plasticity; Thermodynamics; Dislocation; Multiaxial; *14979. SP305-7.*

Plasticity; Thermodynamics; Viscoelasticity; Yielding; Anisotropy; Continuum mechanics; Entaxy; Entropy; Irreversibility; Non-equilibrium state; Nonlinear theory; *12948. SP305-4.*

Plasticity; Twist; Volterra; Wedge; Disclination; Dislocation; Glide; *13271. SP305-5.*

- Plasticity; Void growth; Ductile fracture; *J76C Nos. 1 and 2, 33-39 (1972). SP305-4.*
- Plasticity; Volterra; Crystal; Defect; Disclination; Dislocation; Elasticity; Jog; Kink; Multiplication; *14745. SP305-7.*
- Plasticity; Yielding; Continuum mechanics; Non-Riemannian theories; *SP317, pp. 761-784. SP305-3.*
- Plasticizers; Polychlorinated biphenyl; Transformers; Dielectric fluids; Heat transfer; *13074. SP305-5.*
- Plasticizers; Solubility parameters; Energy of vaporization; Internal energies of vaporization; Molecular vaporization; Organic plasticizers; *11564. SP305-2.*
- Plastics; Flame spread and smoke development; High-rise; Human behavior; Life safety; *15069. SP305-7.*
- Plastics; Polymers; Radiation; Radiometry; Sun; Weathering; Xenon arc; Carbon arc; Degradation; Irradiance; Photodegradation; *10472. SP305-1.*
- Plastics; Polymers; Thermal properties; Compilation; Electrical properties; Mechanical properties; *13444. SP305-5.*
- Plastics; Polymers; Thermal properties; Compilation; Electrical properties; Mechanical properties; *Monogr. 132. SP305-5.*
- Plastics; Prevention; Sealants; Tooth loss; Caries; Dental materials; *13261. SP305-5.*
- Plastics; Property tests; Building materials; Concrete; Functions in building; Material prescriptions; Performance concept; *SP361, Vol. 1, pp. 733-740. SP305-4.*
- Plastics; Radiation; Radiochromic dyes; Spectrophotometry; Colour dosimeters; Dosimetry; Dyes; Glass; *15960. SP305-8.*
- Plastics; Radiation chemistry; Radiation sterilization; Solid-state detectors; Spectrophotometry; Dose distribution; Dosimetry; Dyes; Electron beams; Gamma rays; Glasses; *14734. SP305-7.*
- Plastics; Radiochromism; Triphenylmethane dyes; Vinyl resins; X-ray detectors; Dosimetry; Dyes; Gels; Microdosimetry; *14659. SP305-6.*
- Plastics; Reflectance; Scattering; Spectrophotometry; Translucency; Transmittance; Vitrolite glass; Blurring effect; Edge loss; Error analysis; Flux loss; *TN594-12. SP305-8.*
- Plastics; Review; Thermal properties; Composite materials; Electrical properties; Mechanical properties; Metals; *13554. SP305-5.*
- Plastics; Rigid polyvinyl chloride (PVC); Test methods; Ultraviolet (UV) radiation; Water vapor; Weathering—artificial and natural; Yellowing; Atmospheric pollutants; Color—difference and representation; Impact resistance; *SP361, Vol. 1, pp. 751-760. SP305-4.*
- Plastics; Rugs; Sheets; Springs; Upholstered furniture; Upholstery; Bedding; Beds; Blankets; Carpets; Curtains; Drapes; Fabrics; Fibers; Fire; Flames; Flammability; Flammable; Floor coverings; Furnishings; Furniture; *TN498-1. SP305-2.*
- Plastics; Silver alloys; X-ray studies; Alloys; *14113. SP305-2.*
- Plastics; Ultraviolet analysis; Weathering; Color and gloss measurements; Colorimetric analysis; Infrared analysis; Oxidation; *10554. SP305-1.*
- Plastics; Weathering of plastics; Manufacturing Chemists' Association (MCS); Performance of plastics outdoors; *13399. SP305-5.*
- Plastics, fiber-reinforced; Pultrusions; Stress-rupture testing; Sunlight; Ultraviolet radiation; Weatherability; Antenna-support materials; Environmental degradation; Guys, nonmetallic; Marine atmospheres; *NBSIR 76-1069. SP305-8.*
- Plastics flammability; Product safety; Accident data; Data systems; Fabric flammability; FFACTS; Fire accidents; Fire data systems; Fire hazards; Fires; Hazard analysis; NEISS; *16361. SP305-8.*
- Plastics in fire; Rain penetration; Robustness of construction; Technical evaluation; Uniformity of assessment; Weathering; Agrément; Durability prediction; Economic aspects; Evaluative judgement; *SP361, Vol. 1, pp. 491-502. SP305-4.*
- Plastics standardization; Specifications; Standards; Standards organization; Test methods; *16106. SP305-8.*
- Plastics standards, world index; Standards, plastics; Index of plastics standards; *SP352. SP305-3.*
- Plastics testing; Polymer analysis; Properties; Test method. Nonpolymeric constituents in plastics; *16225. SP305-8.*
- Plastic-wave propagation; Rate-independent theory; Tapere rods; Aluminum; Experiments; Longitudinal impact; Numerical solution; One-dimensional; *J72C No. 4, 231-241 (1968) SP305-1.*
- Plate; Ring; Solution; Strength; Stress; Coaxial; Deflection; Flexure; Glass; Numerical; *12460. SP305-4.*
- Plate tectonics; Crustal movements; Earth rotation; Geophysical Lasers; Lunar cartography; Lunar gravity; Moon; *1543 SP305-7.*
- Plate tectonics; Satellite geodesy; Crustal moments; Earth rotation; Geodynamics; Lunar distance; Microwave interferometry; *15799. SP305-8.*
- Plateau annealing; Uranium glasses; U-238 fission decay constant; Fission track dating; Neutron flux; Neutron irradiation; *15379. SP305-7.*
- Plated coatings; Plating specifications; Plating standard Specifications; Coating thickness; Coatings; Electrodeposited coatings; Electrodeposits; Metal coatings; *14041. SP305-6.*
- Plated coatings; Polymer coatings; Solid film lubricants; Sputtered coatings; Wear; Barrier film; Chemical coatings; Failure prevention; Mechanical failure; Metal coatings; *SP45 SP305-8.*
- Plating; Blum, William; Electrodeposition; Government laboratories; *16203. SP305-8.*
- Plating specifications; Plating standards; Specifications; Coating thickness; Coatings; Electrodeposited coatings; Electrodeposits; Metal coatings; Plated coatings; *14041. SP305-6.*
- Plating standards; Specifications; Coating thickness; Coating Electrodeposited coatings; Electrodeposits; Metal coatings; Plated coatings; Plating specifications; *14041. SP305-6.*
- Platinum; Alloys; Chromium; Constitution diagram; Equilibrium diagram; Phase diagram; *13621. SP305-5.*
- Platinum; High-speed measurements; High temperatures; Melting point; *J74C Nos. 3 and 4, 87-88 (1970). SP305-2.*
- Platinum; Platinum-rhodium alloy; Preferential oxidation; Temperature gradient; Thermal gradient; Thermocouple; Thermoelectric stability; Aging; Calibration change; Gradient; High temperature (700 to 2000 °C); Iridium; Iridium-rhodium alloy; Noble-metal thermocouple; *16158. SP305-8.*
- Platinum; Platinum-13 percent rhodium; Temperature; Thermocouple; Butane; Carbon monoxide; Catalysis; Combustion; Hydrogen; Optical pyrometer; *14637. SP305-6.*
- Platinum; Precision; Radiochemical separations; Silver; Accuracy; Activation analysis; Copper; Gold; Hafnium; Palladium; *SP422, pp. 1157-1164 (Aug. 1976). SP305-8.*
- Platinum; Precision; Replicate; Spark; Spectrometry; Accurate Circumvention; Emulsions; Homogeneity; Ions; Mass; *118-SP305-3.*
- Platinum; Rate of vaporization; Vapor pressure; Heat of sublimation; Langmuir vaporization; *J74A No. 5, 647-6 (1970). SP305-2.*
- Platinum; Reference material; Resistivity; Standard; Therm conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; *J71C-4, 255-284 (1967). SP305.*
- Platinum; Reference material; Resistivity; Standard; Therm conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; *105 SP305-1.*
- Platinum; Reference material; Resistivity; Standard; Therm conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; *113 SP305-2.*
- Platinum; Reflection; Absorption; Chromium; Iron; Mirror; Nickel; *12910. SP305-4.*



atinum; Rhodium; Rhodium; Rigid band approximation; Tantalum (Ta); Thermal conductivity; Thermoelectric power; Transition metal; Transport properties; Tungsten (W); Chromium; Electronic density of states; Iridium; *SP323*, pp. 585-690. **SP305-4.**

atinum; Rhodium; Tantalum; Thallium; Tungsten; Wavelengths; Ytterbium; Bismuth; Gold; Hafnium; Ionization energies; Iridium; Lead; Lutetium; Mercury; Osmium; *16420*. **SP305-8.**

atinum; Rhodium; Ruthenium; Thermodynamic properties; Calorimetry; Critically evaluated data; Debye temperature  $\theta$ ; Electronic coefficient of heat capacity ( $\gamma$ ); Enthalpy; Entropy; *J. Phys. Chem. Ref. Data* 3, No. 1, 163-209 (1974). **SP305-6.**

atinum; Rhodium; Ruthenium; Thermomigration; Alloys; Cobalt; Copper; Diffusion; Electromigration; Iron; Nickel; Palladium; *JPCRD* 5, No. 1, 103-200 (1976). **SP305-8.**

atinum; Silver; Tantalum; Tin; Aluminum; Beryllium; Cobalt; Copper; Compilation; Electrical resistivity; Gold; Indium; Iron; Lead; Low temperature; Magnesium; Molybdenum; Nickel; Niobium; *TN365*. **SP305-1.**

atinum; Soft X-ray appearance potential; Tungsten; Tungsten carbide; X-ray photoemission; Catalysis; Electronic structure; *15011*. **SP305-7.**

atinum; Standard reference materials; Thermal expansion; *12503*. **SP305-4.**

atinum; Stress components; Thermoelectric theory; Antimony; Heat conduction; Laser materials; Nd-doped glass; *J75A No. 4*, 247-260 (1971). **SP305-3.**

atinum; Stress components; Thermoelectric theory; Antimony; Heat conduction; Laser materials; Nd-doped glass; *12133*. **SP305-3.**

atinum; Surface energy; Absorption potential; Charge density; Metal-vacuum interface; *SP323*, pp. 359-373. **SP305-4.**

atinum; Surface-diffusion; Surface properties; Activation energy; Field emission microscopy; Nickel; *10186*. **SP305-1.**

atinum; Thermal expansion; High-speed measurements; High temperature; *12139*. **SP305-3.**

atinum; Vanadium; Alloys; Constitution diagram; Equilibrium diagram; Phase diagram; *13257*. **SP305-5.**

atinum; X-ray photoemission; Alloys; Copper; Electronic density of states; Lanthanum; Nickel; Nuclear magnetic resonance; *15768*. **SP305-8.**

atinum alloys; Transition elements; Alloy phases; Atomic ordering; A15-type phases; Chromium alloys; Electron compounds; Intermediate phases; Nonstoichiometric phases; Osmium alloys; *9517*. **SP305.**

atinum analysis; Preconcentration; Selenium analysis; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Sulfur analysis; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; *TN422*. **SP305-1.**

atinum analysis; Preconcentration; Silicon detector; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; X-ray mass attenuation coefficients; *TN452*. **SP305-1.**

atinum analysis; Preconcentration techniques; Spark source mass spectrometry; Spectrochemical analysis; Spectrophotography; Standard reference materials; Steel analysis; Target current scanning; Trace analysis; X-ray absorptiometry; X-ray fluorescence analysis; *TN502*. **SP305-2.**

atinum anodes; Reaction mechanism; Anodic films; Dual barrier, electrocatalysis; Oxygen evolution; *SP455*, pp. 259-266 (Nov. 1976). **SP305-8.**

atinum black; Polarization; Porous electrodes; Implantable hybrid cells; Pacemakers; Palladium black; *SP415*, pp. 55-61. **SP305-7.**

Platinum black; Thermal titration; Adsorption of hydrogen on platinum black; Heat of adsorption of hydrogen; *10297*. **SP305-1.**

Platinum distribution ratios; Chlorine effect; Counting corrections; Gamma intensity attenuation; Neutron flux depression; Organic liquid sample irradiation; Palladium distribution ratios; *SP422*, pp. 1181-1187 (Aug. 1976). **SP305-8.**

Platinum group metals; Alloy phases; Constitution diagrams; Noble metals; Phase diagrams; Phase equilibria; *NBSIR* 73-415. **SP305-7.**

Platinum inclusion; Surface damage; Thin film coating; HF treatment; Inclusion damage; Passive and active testing; *SP372*, pp. 3-10. **SP305-4.**

Platinum metal oxides; Solid solution;  $\text{Cr}_2\text{O}_3\text{-IrO}_2$  system; Dissociation; Phase relations; *9480*. **SP305.**

Platinum, polarization; Polarization electrode; Standard Sea Water; Conductance; Conductivity; Extrapolation; Faradaic process; Frequency extrapolation; Palladium black; *14360*. **SP305-6.**

Platinum resistance; Dynamic analog correlation system; Combination metering and safety valve; High temperatures; Transrotor engine; *TN295*. **SP305.**

Platinum resistance thermometer; A-C bridge; Aluminum; Aluminum point; Fixed point; Freezing point; IPTS-68; *J78A No. 4*, 477-495 (1974). **SP305-6.**

Platinum resistance thermometer; International Practical Temperature Scale; NBS-IPTS-68; NBS-1955 provisional scale; *J77A No. 3*, 309-332 (1973). **SP305-5.**

Platinum resistance thermometer; Platinum-rhodium vs platinum thermocouples; Reference tables; Thermometric fixed points; Blackbodies; Calibrations; Optical pyrometer; *13577*. **SP305-5.**

Platinum resistance thermometer; Standard thermocouple; Temperature scale; Freezing point; Gold point; High temperature; *13571*. **SP305-5.**

Platinum resistance thermometer; Standard cell enclosure; Standard cells; AC transformer-ratio bridge; *14925*. **SP305-7.**

Platinum resistance thermometer; Temperature scale; Thermocouple; Triple point; Calibration; Fixed point; Freezing point; Furnaces; High temperature; IPTS-68; *12354*. **SP305-3.**

Platinum resistance thermometer; Temperature standard; Tin point; Triple point of water; Zinc point; Comparator; International Practical Temperature Scale of 1968; IPTS-68; Oxygen point; *J. Res.* 80A No. 3, 477-504 (1976). **SP305-8.**

Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure seal; Pressure vessel; Resistance; Resistance thermometer; Test; Thermometer; Thermometer leads; Thermostated bath; Vacuum; Water tight; Bridge; Deep-sea thermometer; High pressure; *TN894*. **SP305-8.**

Platinum resistance thermometer; Thermodynamic Temperature Scale; Thermometry; Triple point; Calibration; Calibration errors; Cryostat; Fixed points; Freezing point; International Practical Temperature Scale; *Monogr.* 126. **SP305-5.**

Platinum resistance thermometers; Ac-dc resistance thermometer; Ac susceptibility; Gadolinium sulphate; Germanium resistance thermometers; IPTS-68; Low temperature scales, 1-83 K; Magnetic thermometer; Manganous ammonium sulphate; Paramagnetic salts; *15903*. **SP305-8.**

Platinum resistance thermometers; Resistance thermometers; Two-way structural analysis; Calibration of thermometers; Low-temperature calibration of thermometers; *15309*. **SP305-7.**

Platinum resistance thermometer; Tin point; Zinc point; Aluminum point; Calibration; Freezing point; Freezing-point cell; *15337*. **SP305-7.**

Platinum thermometers; Resistance measurements; Thermometry; Two-stage transformers; AC bridges; Bridges; *16404*. **SP305-8.**

- Platinum wire resistivity; Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; Test patterns; Thermal response; *SP400-4*. **SP305-6.**
- Platinum-rhodium alloy; Preferential oxidation; Temperature gradient; Thermal gradient; Thermocouple; Thermoelectric stability; Aging; Calibration change; Gradient; High temperature (700 to 2000 °C); Iridium; Iridium-rhodium alloy; Noble-metal thermocouple; *16158*. **SP305-8.**
- Platinum-rhodium vs platinum thermocouples; Reference tables; Thermometric fixed points; Blackbodies; Calibrations; Optical pyrometer; Platinum resistance thermometer; *13577*. **SP305-5.**
- Platinum-13 percent rhodium; Temperature; Thermocouple; Butane; Carbon monoxide; Catalysis; Combustion; Hydrogen; Optical pyrometer; Platinum; *14637*. **SP305-6.**
- Platinum resistance thermometers; Wire-to-wire calibration; Adjustment for trend; Calibration; Capsule type thermometers; Intercomparison; *1PTS-68*; *NBSIR 74-586*. **SP305-7.**
- Players; Sectors; Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; *13511*. **SP305-5.**
- Players; Sectors; Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; *NBSIR 73-108*. **SP305-6.**
- Players; Sectors; Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; *NBSIR 73-110*. **SP305-6.**
- Players; Sectors; Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; *NBSIR 73-114*. **SP305-6.**
- Playground equipment safety; Scientific data; Silicon devices; Time; Energy conservation; Fires; Gasoline consumption; Glass SRM; Hazardous chemicals; Leap second; *DIM/NBS 59*, No. 2, 25-48 (1975). **SP305-7.**
- Playground equipment, safety of; Safety of home playground equipment; Slides, safety of; Swing sets, safety of; Home playground equipment, safety of; Jungle gyms, safety of; *P566-75*. **SP305-8.**
- Plotter; Digital plotter; Graph; Graphics; Minicomputer; *TN847*. **SP305-6.**
- Plotting; Type fonts; Typesetting; Vectorized characters; Alphabets; COM; Computerized typesetting; Digital plotting; Graphics; Hershey character set; *SP424*. **SP305-8.**
- Plotting algorithm; Plotting program; Communication network; Multicommodity network; Network; Network display; *TN829*. **SP305-6.**
- Plotting, computer; Semiconductors; Silicon; BASIC; Capacitance-voltage measurements; Computer programs; Dopant profiles; Error function; Gaussian diffusion; *SP400-11*. **SP305-7.**
- Plotting program; Communication network; Multicommodity network; Network; Network display; Plotting algorithm; *TN829*. **SP305-6.**
- Plug flow; Slurry flow; Slush; Hydrogen; Cryogenic; Flow restrictions; Friction angle; Gel; Liquid-solid mixtures; Particle size; *TN377*. **SP305-1.**
- Plug flow; Slurry flow; Slush hydrogen; Solid hydrogen; Flow restrictions; Liquid hydrogen; Liquid-solid mixtures; *11778*. **SP305-2.**
- Plumbing; Plumbing research; Water demand in buildings; Water distributing systems; *16226*. **SP305-8.**
- Plumbing; Porcelain; Sieve; Silica; Sinks; Abrasives; Bathtubs; Cleaners; Detergents; Particle; Plastic; *10135*. **SP305-1.**
- Plumbing code; Principles of hydraulics; National Bureau of Standards; Performance of plumbing systems; *15024*. **SP305-7.**
- Plumbing equipment; Tanks; Valves; Bowls; Brass; Dimensions; Nuts; Plastic; *P56-66*. **SP305.**
- Plumbing guide criteria; Backflow; Backflow prevention devices; Back pressure; Backsiphonage; Guide criteria; Potable water protection; *NBSIR 76-1020*. **SP305-8.**
- Plumbing performance; Acceptance protocol; Performance approach; Performance-based plumbing standard; Performance statement; Plumbing performance criteria; Plumbing performance evaluation; *16654*. **SP305-8.**
- Plumbing performance criteria; Plumbing performance evaluation; Plumbing performance; Acceptance protocol; Performance approach; Performance-based plumbing standard; Performance statement; *16654*. **SP305-8.**
- Plumbing performance evaluation; Plumbing performance; Acceptance protocol; Performance approach; Performance-based plumbing standard; Performance statement; Plumbing performance criteria; *16654*. **SP305-8.**
- Plumbing research; Gravity drainage evaluation; *16083*. **SP305-8.**
- Plumbing research; Water demand in buildings; Water distributing systems; Plumbing; *16226*. **SP305-8.**
- Plumbing-vent sizing; Reduced-size vents; Sanitary DV systems; Secondary ventilation; Testing plumbing systems for plumbing; Hydraulic criteria for plumbing; Hydraulic test loads; *B5549*. **SP305-6.**
- Plutonium; Plutonium alloy; Poisson ratio; Shear modulus; Sound velocity; Young modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; *16635*. **SP305-8.**
- Plutonium; Potassium; Praseodymium; Promethium; Rhenium; Rubidium; Sodium; Surface diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; *J. Phys. Chem. Ref. Data 4*, No. 1, 177-250 (1975). **SP305-7.**
- Plutonium; Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; Neptunium; Nobelium; *13594*. **SP305-5.**
- Plutonium; Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; Neptunium; Nobelium; *14257*. **SP305-6.**
- Plutonium; Safeguard; Uranium; Nuclear enterprises; Nuclear materials; *SP425*, pp. 199-201. **SP305-7.**
- Plutonium; Uranium; Evaluation; Nuclear data; *SP425*, pp. 305-316. **SP305-7.**
- Plutonium; X rays; Betas; Calibrations; Dosimetry; Gamma rays; Neutrons; *SP456*, pp. 267-276 (Nov. 1976). **SP305-8.**
- Plutonium alloy; Poisson ratio; Shear modulus; Sound velocity; Young modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Plutonium; *16635*. **SP305-8.**
- Plutonium dioxide; Plutonium isotopes; Radionuclide calorimetry; Radionuclide decay power; Standards; Butane calorimeter; Calorimetric standards; Calorimetry; Phase standards; Phase-change calorimeter; *16443*. **SP305-8.**
- Plutonium dioxide; Protactinium dioxide; Thorium dioxide; Uranium dioxide; Activity coefficients in solid solutions; Equilibria with molten fluorides; Equilibrium of actinide oxides and molten fluorides; Heat of mixing in solid solutions; *SP364*, pp. 331-341. **SP305-4.**
- Plutonium isotopes; Radionuclide calorimetry; Radionuclide decay power; Standards; Bunsen ice calorimeter; Calorimetric standards; Calorimetry; Heat standards; Phase-change calorimeter; Plutonium dioxide; *16443*. **SP305-8.**
- Plutonium-238; Safeguards data; Spontaneous fission; Track recorders; Coincidence counting; Decay constant; *SP425*, pp. 587-590. **SP305-7.**
- Plutonium-239; Uranium-234; Uranium-235; Uranium-238; Cross sections; Fission; Neptunium-237; Neutron reaction; Pile neutrons; *15020*. **SP305-7.**

wood; Shear test; Vacuum and pressure test; Adhesives; Boil test; Bonding; Exterior; Grading; Interior; Moisture content; Overlay; *SP305-66*. **SP305.**

wood; Subfloors; Underlayment; Wood; Wood joists; Concentrated loads; Deflection; Floor hardboard; Housing; Impact energy; Operation **BREAKTHROUGH**; *13472*. **SP305-5.**

wood; Subfloors; Underlayment; Wood; Wood joists; Concentrated load; Deflection; Floor; Hardboard; Housing; Impact energy; Operation **BREAKTHROUGH**; *BS552*. **SP305-6.**

wood, construction, and industrial; Construction and industrial plywood; Industrial plywood; *PS1-74*. **SP305-7.**

wood, hardwood and decorative; Softwood plywood, decorative; Veneer grades, decorative softwood and hardwood; Decorative plywood; Hardwood plywood; *PS51-71*. **SP305-4.**

wood subflooring; Subflooring; Underlayment; Wood-frame construction; Concentrated-load capacity; Evaluation criteria; Floors; Hardboard; Load capacity; Operation **BREAKTHROUGH**; Performance criteria; *13388*. **SP305-5.**

wood subflooring; Subflooring; Underlayment; Wood-frame construction; Evaluation criteria; Floors; Hardboard; Load capacity; performance criteria; *BS553*. **SP305-6.**

480 programs; Research planning; Scientific research abstracts; Binational research cooperation; International scientific cooperation; Israel science and technology; Physical science research administration; *TN721*. **SP305-4.**

93-579; Privacy; Privacy Act of 1974; Privacy compliance techniques; Privacy costs; Privacy model; Security costs; Computer model; Computer security; Confidentiality; Cost model; Data security costs; *NBSIR 76-985*. **SP305-8.**

mesons; Relativistic nuclear physics; Baryon resonances; Exchange currents; Nuclear magnetic moments; Nucleons; *12729*. **SP305-4.**

MOS shift register; Active devices; Laser scanning; Logic follow observation; LSI testing; Measurement of operating margins; Nondestructive tests; *15833*. **SP305-8.**

r.r.; Symmetrical; Conformation; Half-chain; Inositol; Methylene acetate, phenylsotriazole; *15254*. **SP305-7.**

r. spectroscopy; Acylated 1,1-bis(acylamido)-1-deoxypentols; Conformational analysis; Conformational nomenclature; Exponential filtering; Fourier transform; *15268*. **SP305-5.**

r. spectroscopy; Proton coupling constants; Benzylidene acetals; Chemical shifts; Conformations; D-glucosufuranose derivatives; *10886*. **SP305-2.**

r. spectroscopy; 6-amino-6-deoxy-D-glucose-6-<sup>15</sup>N derivatives; <sup>13</sup>C n.m.r. spectroscopy; <sup>19</sup>F n.m.r. spectroscopy; Inter-nuclear double resonance; Internuclear triple resonance; Nitrogen-15 coupling constants; *12444*. **SP305-4.**

n junction; Semiconductor characterization; Silicon; Thermally stimulated measurements; Defect centers; *14226*. **SP305-6.**

n junction; Semiconductor defects; Silicon; Thermally stimulated capacitance; Thermally stimulated current; Gold-doped silicon; Measurement methods; MOS capacitor; *16363*. **SP305-8.**

n junctions; Radiative recombination; Silicon; Space charge regions; Gallium arsenide; Germanium; *9519*. **SP305.**

n junctions; Reliability; Second breakdown; Transistors; Electronics; Failure mechanism; *10781*. **SP305-1.**

n junctions; Resistivity; Semiconductor electronics; Sheet resistors; Silicon; Test pattern; Test structures; Dopant density; Microelectronics; MOS capacitors; *p-n-p* transistor fabrication; *SP400-22*. **SP305-8.**

n junctions; Resistivity of silicon; Semiconductor devices; Semiconductor process control; Sheet resistors; Test patterns; Thermally stimulated currents; MOS capacitors; *SP400-21*. **SP305-8.**

*p-n* junctions; Scanning electron microscopy; Semiconductor devices; Device inspection; Electron-beam-induced current; Microelectronics; *16449*. **SP305-8.**

*p-n* junctions; Semiconductors; Silicon; Thermally stimulated capacitance; Thermally stimulated current; Cryostat; Defects; Gold-doped silicon; Measurement methods; Microelectronics; MOS capacitor; *SP400-26*. **SP305-8.**

Pneumatic aspirator; Sample introduction; Solvent removal; Spray; Atomizer; Nebulizer; *11173*. **SP305-2.**

Pneumatic rabbit sensor; Mossbauer spectroscopy; Tin standard for chemical shift; PARLORS program for Mossbauer spectra; Mossbauer instrumentation; Mossbauer laboratories; Radiometric trace chromatography; Radioisotope dilution; *TN404*. **SP305.**

Pneumatic tubes; Radiochemical laboratories; 14 MeV neutron generator; 100 MeV-40 KW LINAC; Clean room; Computers; Counting rooms; Feedback analysis; Optimization of variables 10 MW nuclear reactor; *9154*. **SP305.**

Pogo pressure; Pressure source; Pressure transducer; Sinusoidal; Space shuttle; Transducer; Bias pressure; Calibration; Dynamic calibration; Dynamic pressure; High pressure; Liquid medium; *TN927*. **SP305-8.**

Poincaré series; Automorphic form; Automorphic integral; Fundamental region; Group; *J.73B No. 2, 153-162* (1969). **SP305-1.**

Poincaré series; Dedekind function; Modular form; Partition function; *J.77B Nos. 3 and 4, 81-83* (1973). **SP305-5.**

Poincaré series; Polynomial approximation; Automorphic functions; *15366*. **SP305-7.**

Point contacts; Superconductivity; Josephson effect; *13269*. **SP305-5.**

Point contacts; Superconductivity; Thermal noise; Josephson radiation; Line-width; *10258*. **SP305-1.**

Point defect; CaF<sub>2</sub>; Classical ionic lattice theory; Electrostatic potential; Lattice distortion; NaCl; *J.72A No. 5, 471-475* (1968). **SP305-1.**

Point defect; Reduction; Rutile; Symmetry conditions; Activation energy; Internal friction; *10114*. **SP305-1.**

Point defect; Relaxation; Symmetry; Trapping center; Crystal; Cubic; Jump rate; *11419*. **SP305-2.**

Point defects; Alkaline earth fluorides; CaF<sub>2</sub>; Clusters; Defect models; GdF<sub>3</sub>; Mass transport; *13328*. **SP305-5.**

Point defects; Alkaline earth fluorides; Born model; Energies of formation; Ionic crystals; *10256*. **SP305-1.**

Point defects; Anelastic relaxation; CaF<sub>2</sub>; Dielectric relaxation; EPR lifetime broadening; GdF<sub>3</sub>; Pairs; *14279*. **SP305-6.**

Point defects; Annealing; Calcium fluoride; Defect pairs; Equilibria; Model; *15820*. **SP305-8.**

Point defects; Calcium fluoride; Cation vacancies; Density; Gadolinium impurity; Interstitial anions; Lattice parameter; *13350*. **SP305-5.**

Point defects; Calcium fluoride; Defect equilibria; Electron paramagnetic resonance; *12237*. **SP305-3.**

Point defects; Computer simulation; Copper; Dislocation structure; Pair-potential; *SP317*, pp. 273-283. **SP305-3.**

Point defects; Continuity equations; Continuous distribution of dislocations; Defect measures; Deformations of connections; Deformations of tensors; Dislocations; Imperfect continuum; Nonlinear elasticity; Nonlinear strain measures; *11612*. **SP305-2.**

Point defects; Diffuse neutron scattering; Incoherent neutron scattering; *SP425*, pp. 823-824. **SP305-7.**

Point defects; Electrical resistivity; Iron-nickel alloys; Martensite; *12556*. **SP305-4.**

Point defects; Polarization; NaCl; CsCl; CaF<sub>2</sub>; ZnS; Electric fields; Ionic crystals; Lattice sums; *J.71A1-428, 1-2* (1967). **SP305.**

Point defects; Precipitation; Radiation damage; Dislocation loops; Electron microscopy; Magnesium fluoride; *9548*. **SP305-1.**

- Point defects; Rare-earth doping; Anelastic relaxation;  $\text{CaF}_2$ ; Density; Dielectric relaxation; EPR; Equilibria; 12939. SP305-4.
- Point defects; Relaxation; Trapping center; Crystal symmetry; Equivalent sites; Jump rates; *J72A No. 3, 231-237 (1968)*. SP305-1.
- Point defects; Relaxation times; Space group; Symmetry condition; Crystallographic point group; Jump rates; 10113. SP305-1.
- Point defects; Schottky pairs; Computer simulation; Kansaki method; Lattice statics; *SP317*, pp. 219-245. SP305-3.
- Point defects; Schottky pairs; Vacancies; Born model calculation; Calcium fluoride; Energies of formation; Frenkel pairs; Interstitials; Ionic crystals; 10551. SP305-1.
- Point defects; Semiconductors; Statistical thermodynamics; Formation enthalpy; Formation entropy; Formation free energy; Formation volume; Ionic solids; Metals; Noble gas solids; 12966. SP305-4.
- Point defects; Theory; Vacancies; Vibrational states; Calculations; Electronic states, energies of formation; Energies of motion; Interstitials; M287. SP305.
- Point defects; Vacancy; Anisotropic elastic continuum; Coherent scattering; Differential scattering cross-section; Elastic scattering; Isotropic elastic continuum; Lattice; Local force model; Long wavelength; Neutron scattering; 12701. SP305-4.
- Point gamma source in water; Polynomial approximation; Radiation transport; Truncation error; Gamma ray penetration; Moments method; 13188. SP305-5.
- Point group; Crystal relaxation; Crystal symmetry; Crystal trap; Defect mobility crystal; Point-defect; 11082. SP305-2.
- Point isotropic; Small-angle limit; Twice-scattered; Angular distribution; Gamma radiation; Logarithmic divergences; 9955. SP305-1.
- Point kernel; Radionuclide; Absorbed dose; Beta ray; Dosimetry; Nuclear medicine; 11861. SP305-3.
- Point Pleasant; Stress corrosion cracking; Bridge; Failure; Fracture toughness; 13346. SP305-5.
- Point Pleasant, W. Va. bridge; Scanning electron microscopy; Electron probe microanalysis; Ion microanalysis; Metallography; Nondispersive x-ray analysis; 11609. SP305-2.
- Point potential probe; Spreading resistance; Voltage breakdown; Bibliography; Semiconductor material inhomogeneities; Measurement methods; Photo voltaic; Electron voltaic; Photoconductivity; *TN445*. SP305-1.
- Point source; Absorbed dose; Buildup factor; Gamma radiation; Implant; Interstitial; Intracavitary; 14624. SP305-6.
- Point source; Shielding; Single scatter; Air-scatter; Angular distribution; Energy spectrum; Gamma rays; Neutrons; 9308. SP305.
- Point spread function; Acutance; Contrast transfer function; Edge gradient; Image quality; Light equivalent background; Light induced background; Limiting resolution; Line spread function; Optical transfer function; 14707. SP305-6.
- Point spread function; Acutance; Contrast transfer function; Edge gradient; Image quality; Light equivalent background; Light induced background; Limit resolution; Line spread function; Optical transfer function; 16197. SP305-8.
- Point supports; Simplified approximate solutions; Thin plates; Bassali's theory; Concentric loading; Circular plates; Deflection; Elasticity; Experimental; Flexure; *J70C4-234, 227-244 (1966)*. SP305.
- Point supports; Symmetrically distributed load; Thin plates; Bassali's theory; Deflection; Elasticity; Flexure; *J72C No. 1, 21-26 (1968)*. SP305-1.
- Point-defect; Point group; Crystal relaxation; Crystal symmetry; Crystal trap; Defect mobility crystal; 11082. SP305-2.
- Point-ion potential;  $\text{SrF}_2$ ;  $U$  centers;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ; Ionic polarization; KCl; Mollwo-Ivey relations; NaCl; *J77A No. 5, 659-665 (1973)*. SP305-5.
- Point-ion potential;  $\text{SrF}_2$ ;  $U$  centers;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ;  $\text{CdF}_2$ ; Ionic polarization; KCl; Mollwo-Ivey relations; NaCl; 1390. SP305-6.
- Point-isotropic source; Absorbed fraction; Buildup factor; Energy absorption; Gamma rays; Photons; 10314. SP305-1.
- Point-matching; Electromagnetic scattering; Least-squares; Numerical solution; 14266. SP305-6.
- Poiseuille flow; Standard; Viscosity; Viscous flow; Absolute measurement; Calculation of bounds; Calibration; *J75A 1, 6, 553-560 (1971)*. SP305-3.
- Poison packaging; Bottle caps; Child protection; Closure testing; Containers; Medicine bottles; *NBSIR 75-722*. SP305-8.
- Poisoning; Retail inventory; Statistics; Survey; Lead; Lead poisoning; Paints; *NBSIR 73-407*. SP305-6.
- Poisson distribution; Radioactive decay; Multichannel multiscaler analyzer; 10954. SP305-2.
- Poisson distribution; Radioactivity; Activation analysis; Analytical chemistry; Decision level; Detection limit; Determination limit; Hypothesis testing; Interference; 10333. SP305-1.
- Poisson distributions; Scribner Club; Statistical test; William Buckley; Abraham De Moivre; *Annuities upon Life*; "Argument for Divine Providence"; *Arithmetica Memorabilia*; Bernoulli's theorem; *Doctrine of Chances*; 9695. SP305-1.
- Poisson ratio; Polycrystals; Cauchy relations; Elastic constants of solids; Elasticity; 13289. SP305-5.
- Poisson ratio; Pulse-echo method; Resonance method; Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Copper; Copper alloys; Elastic constants; 16305. SP305-8.
- Poisson ratio; Pulse-echo method; Sound velocity; Young's modulus; Aluminum; Aluminum alloys; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Elastic constants; 15528. SP305-7.
- Poisson ratio; Refractory metals; Strain hardening; Strain rate; Stress strain diagrams; Tantalum; Tensile properties; Evaluation; High temperature tests; Molybdenum; Plastic flow; 13819. SP305-6.
- Poisson ratio; Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Plutonium; Plutonium alloy; 16635. SP305-8.
- Poisson ratio polycrystals; Shear modulus; Single crystal; Young's modulus; Bulk modulus; Compressibility; Elastic constants; Elasticity Lamé constant; 14871. SP305-7.
- Poisson statistics; Single and multiple parameter nuclear analyses; Statistical weights; 14 MeV neutron activation; Counting precision; Excess variability; Limiting precision; Photoneuclear chemistry; 13694. SP305-5.
- Poisson's ratio; Porosity; Shear modulus; Young's modulus; Poisson's ratio; 10541. SP305-1.
- Poisson's ratio; Pulse-echo method; Sound velocity; Young's modulus; Bulk modulus; Chromium alloys; Compressibility; Debye temperature; Doring effect; Elastic constants; Iron alloys; Magnetic transition; Nickel alloys; 15343. SP305-7.
- Poisson's ratio; Pulse-echo technique; Shear modulus; Young's modulus; Bulk modulus; Dental amalgam; Elastic constants; 10339. SP305-1.
- Poisson's ratio; Release agents; Stress-strain curve; Voids; Composite materials; Coupling agents; Epoxy polymer; Parting agents; 12379. SP305-3.
- Poisson's ratio; Shear modulus; Single-crystal elastic constants; Young's modulus; Bulk modulus; Compressibility; Elastic constant; Debye temperatures; Iron; Iron alloys; L. constants; Nickel; *J. Phys. Chem. Ref. Data 2, No. 3, 618 (1973)*. SP305-6.
- Poisson's ratio; Shear modulus; Single-crystal elastic constants; Young's modulus; Bulk modulus; Compressibility; Copper; Elastic constants; *J. Phys. Chem. Ref. Data 3, No. 4, 897-936 (1974)*. SP305-6.



Poisson's ratio; Shear modulus; Sound velocity; Titanium alloys; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constant; 14172. SP305-6.  
 Poisson's ratio; Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Nickel-chromium-iron alloys; 15225. SP305-7.  
 Poisson's ratio; Shear modulus; Sound velocity; Young's modulus; Aluminum alloy; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Nickel steels; 15522. SP305-7.  
 Poisson's ratio; Shear modulus; Young's modulus; Bulk modulus; Composite; Compressibility; Elastic compliance; Elastic stiffness; Piezoelectric oscillator; 15523. SP305-7.  
 Poisson's ratio; Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Nickel-base alloys; 15533. SP305-7.  
 Poisson's ratio; Shear modulus; Young's modulus; Bulk modulus; Composite materials; Elastic constants; Filled polymers; Mechanical properties; Particulate composites; 16264. SP305-8.  
 Poisson's ratio; Superconductor; Thermal expansion; Young's modulus; Composite; Low temperature; NBSIR 73-349. SP305-6.  
 Poisson's ratio; Young's modulus; Composite materials; Elastic constants; Filled polymers; Mechanical properties; Particulate composites; *J. Res.* 80A No. 1, 45-49 (1976). SP305-8.  
 Par; Second virial coefficient; Stockmayer; Dipole; Gas; Inter-molecular potential function; *J.75A* No. 4, 337-385 (1971). SP305-3.  
 Par cap absorption; Solar protons; Sporadic-E; Auroral absorption; Auroral radar; Ionospheric disturbances; 9193. SP305.  
 Par decomposition; Positive definite; Spectrum; Square matrix; Cramped; Field of values; Open positive convex cone; *78B* No. 1, 7-10 (1974). SP305-6.  
 Par fluids; Scaling; Steam; Universality; Critical exponents; Critical region; Homogeneity; 15733. SP305-8.  
 Par molecules; Alkali-halide; Negative ions; Photoelectron spectroscopy; 15791. SP305-8.  
 Par motion; Earth rotation; Geodesy; Laser distance measurements; Lunar range; 13065. SP305-5.  
 Par motion; Selenodasy; Celestial mechanics; Crustal movements; Earth rotation; Geophysics; Laser; Moon; 13809. SP305-6.  
 Par solvents; Pollutants; Quaternization; Alkyl halides; Anion; Arsenic; Environment; Kinetics; Methylation; Nucleophilic reactivity; Onium salts; 16628A. SP305-8.  
 Parimeter; Polarimetry quartz; Signal-to-noise ratio; Throughput; Instrument; 13619. SP305-5.  
 Parimeter; Crystals; Damage; Glass; Infrared; Interferometry; Lasers; Photoelasticity; 15969. SP305-8.  
 Parimeter; Proton magnetic resonance spectroscopy;  $\alpha$ -D-glucose; Anomerization;  $\beta$ -D-glucose; Calorimetry; Clinical analysis; Differential scanning calorimetry; Equilibration; Gas chromatography; 12387. SP305-4.  
 Parimeter; Thin film; ADP modulator; Automatic ellipsometer; Ellipsometer; Optics; 10097. SP305-1.  
 Parimeter quartz; Signal-to-noise ratio; Throughput; Instrument; Polarimeter; 13619. SP305-5.  
 Parity; Conjugate functions; Convex cones; Duality; Linear programming; Orthogonality; *J.74B* No. 2, 99-113 (1970). SP305-2.  
 Parizabilities; Alkali earth oxides; Alkali halides; Deformation; Diamagnetism; Ionic; Ionic sizes; Kinetic energy; Paramagnetism; 10224. SP305-1.  
 Parizabilities; Electromagnetic transition; Matrix elements; Nuclear orientation; Orientation parameter; Photo absorption; Photon polarization; 10819. SP305-1.  
 Parizabilities; Pseudo-states; Sturmians; Close coupling; Electron-atom scattering; 12950. SP305-4.  
 Polarizability; Atomic energy levels; Atomic theory; Helium; *J.74A* No. 5, 699-702 (1970). SP305-2.  
 Polarizability; Density; Dielectric constant; Dielectric theory; Dipole moment; High pressure; Liquids; 14454. SP305-6.  
 Polarizability; Dielectric constant; Methane; 13957. SP305-6.  
 Polarizability; M-6-8 potential; Quadrupole moment; Second virial coefficients; Viscosity coefficient; Nonspherical interactions; 13229. SP305-5.  
 Polarizability; Polyatomic gases; Pressure second virial coefficients; Quadrupole moment; Statistical mechanics; Clausius-Mossotti function; Dielectric virial coefficients; M-6-8 potential; 13593. SP305-5.  
 Polarizability; Pressure; Carbon disulfide; Carbon tetrachloride; Density; Dielectric constant; N-hexane; 11067. SP305-2.  
 Polarizability; Pressure; Refractive index; Temperature coefficient of refractive index; Thermal expansion; Interferometry; Light scattering; Oxide glasses; *J.77A* No. 6, 755-763 (1973). SP305-5.  
 Polarizability; Pseudo-states; Close coupling; Elastic scattering; Electron; Hydrogen atom; 11680. SP305-2.  
 Polarizability; Quadrupole moment; Spectroscopic constants; *Ab initio* electronic calculation; Dipole moment; Dissociation energy; Electron affinity; Energy; Field gradient; Magnetic constants; Molecular electronic structure; Orbital energy; *TN438*. SP305.  
 Polarizability; Refractive index; Annealing; Density; Gas; Hydrostatic compression; 9510. SP305.  
 Polarizability; Refractive index; Specific refraction; Deuterium; 11729. SP305-2.  
 Polarizability; Relaxation; Dielectric; Ionic; 12407. SP305-4.  
 Polarizability; Saturated liquid; Clausius-Mossotti function; Compressed liquid; Dielectric constant; Fluorine; 13041. SP305-4.  
 Polarizability; Saturated liquid; Clausius-Mossotti function; Dielectric constant; Oxygen; 11844. SP305-3.  
 Polarizability; Van der Waals; CO; Energy surface;  $F_2$  hydrides;  $LiH_2$ ;  $MC-SCF$ ;  $O_2$ ;  $O_3$ ; 15275. SP305-7.  
 Polarizability pressure; Slightly polar liquids; Tait equation; Toluene; Carbon disulfide; Carbon tetrachloride; Clausius-Mossotti; Density; Dielectric constant; Dipole moment; Isopentane; 11066. SP305-2.  
 Polarizable ion model; Semicontinuum polaron model;  $CaF_2$ ;  $CaO$ ;  $F$  center; Internal Stark effect; KCl; Optical phonons; 12134. SP305-3.  
 Polarization; Absolute cross sections;  $Ba^+$  ion; Cross beams; Electron impact; Excitation; 14427. SP305-6.  
 Polarization; Antennas; Measurement; 15659. SP305-7.  
 Polarization; Antiferroelectric; Dielectric constant; Heat capacity; Lead pyroniobate; Low temperature; 16527. SP305-8.  
 Polarization; Close-coupling; Electron impact; Excitation; Hydrogen; Lyman  $\alpha$ ; 10335. SP305-1.  
 Polarization; Comets; Fluorescence; OH-18-cm radiation; Optical pumping; 16513. SP305-8.  
 Polarization; NaCl; CsCl;  $CaF_2$ ; ZnS; Electric fields; Ionic crystals; Lattice sums; Point defects; *J.71A1-428*, 1-2 (1967). SP305.  
 Polarization; Polycrystalline film; Synchrotron radiation; Emission angle; Energy distributions; Gold; Incidence angle; Photoemission; 13223. SP305-5.  
 Polarization; Polymers; Polyvinylchloride; Polyvinylfluoride; Polyvinylidene fluoride; Electrets; Piezoelectricity; NBSIR 75-787. SP305-7.  
 Polarization; Polyvinyl chloride; Pyroelectric; Electret; Dipoles; Glass; Piezoelectric; 15320. SP305-7.  
 Polarization; Polyvinyl chloride; Pyroelectric; Dipoles; Electret; Glass; Piezoelectric; 16277. SP305-8.  
 Polarization; Porous electrodes; Implantable hybrid cells; Pacemakers; Palladium black; Platinum black; *SP415*, pp. 55-61. SP305-7.

- Polarization; Potassium tantalate; Dielectric constant; Dielectric relaxation; Electret; 16638. SP305-8.
- Polarization; Potential; Soil corrosion; Cathodic protection; Copper; Corrosion current; Corrosion rate; 10055. SP305-1.
- Polarization; Propagation; Alfvén; Dispersion; Hydromagnetic; Magnetosphere; Multicomponent; Pc 1 micropulsations; Plasma; TN342. SP305.
- Polarization; Propagation; Radio; Reflection coefficients; Sky waves; Absorption; Antennas; Broadcasting; Ground waves; Ionosphere; Medium frequency; 9551. SP305-1.
- Polarization; Pulsed laser damage; Thermal model; Angle of incidence; SP435, pp. 41-48 (Apr. 1976). SP305-8.
- Polarization; Quantum counters; Rhodamine B chloride; Spectrofluorimetry; Total internal reflection; Emission anisotropy; Fluorescence; Photodetectors; 16430. SP305-8.
- Polarization; Quantum mechanics; Atomic and molecular processes; Comets; Line formation; 15746. SP305-8.
- Polarization; Radiation; Spectrometer; Azimuthal angle; Compton-Raman interaction; Hamiltonian; 12345. SP305-3.
- Polarization; Radiative and nonradiative transition probabilities; Real fluorescence parameters; Fluorescence lifetime; Fluorescence quantum efficiency; Fluorescence quantum yields; Fluorescence spectrum; Fluorescence standards; *J. Res. 80A No. 3*, 389-399 (1976). SP305-8.
- Polarization; Random surfaces; Reflectance; Reflectance of coherent radiation; Scattering; Scattering theory; Surface roughness; Transmittance; Bibliography; Emission; Heat transfer; Measurement techniques; Periodic surfaces; *J. Res. 80A No. 2*, 207-220 (1976). SP305-8.
- Polarization; Refrigeration; Cryogenics; Dielectrics; Electrocaloric; Heat switches; 15491. SP305-7.
- Polarization; Remanent; Strontium titanate; Dielectric relaxation; Electret state; Impurity; Ordering transition; 16639. SP305-8.
- Polarization; Resonance; Close coupling; Eigenphase; Electron helium scattering; Excitation; 11263. SP305-2.
- Polarization; Resonance; Threshold; Close-coupling; Electron excitation; Multi-channel; 10737. SP305-1.
- Polarization; Resonance lines; Ca II; Electron impact; Excitation cross sections; 13834. SP305-6.
- Polarization; Sample characteristics; Straylight; Wavelength accuracy; Bandwidth; Calibration; Errors in spectrophotometry; Interferences; Multiple reflections; Photometric linearity; *J. Res. 80A No. 4*, 609-624 (1976). SP305-8.
- Polarization; Saturation effect; OH radiation; 9574. SP305-1.
- Polarization; Sheet piling; Undisturbed soil; Weight loss; Active region; Aerated soil; Corrosion; Disturbed soil; Excavated; Extracted; H-piling; Instantaneous corrosion rate; Mill scale; Permafrost region; Pipe piling; Pit depth; *Monogr. 127*. SP305-4.
- Polarization; Spatially extended defects;  $\text{CaF}_2$ ; Dipole self coefficient; Electric fields; NaCl; *J. 72A No. 5*, 475-478 (1968). SP305-1.
- Polarization; Spectrofluorimetry; Viewing angle; Emission anisotropy; Fluorescence; Fluorescence quantum yield; Fluorescence standards; Fluorimetry; *J. 79A No. 1*, 1-15 (1975). SP305-7.
- Polarization; Spectrofluorimetry; Viewing angle; Emission anisotropy; Fluorescence; Fluorescence decay; Fluorescence quantum yields; 15754. SP305-8.
- Polarization; Spectrofluorimetry; 1,6-diphenyl-1,3,5-hexatriene; Fluorescence; Linear dichroism; Liquid crystals; *J. Res. 80A No. 1*, 15-33 (1976). SP305-8.
- Polarization; Steel piling; Undisturbed soil; Weight loss; Corrosion; Corrosion rate; Disturbed soil; Instantaneous rate; Pit depth; Pitting factor; *J. 75C No. 2*, 107-121 (1971). SP305-3.
- Polarization; Step height; Interferometer; 16382. SP305-8.
- Polarization; Surfaces; Dislocations; Nickel-single crystals; Passive film; 11758. SP305-2.
- Polarization;  $\text{V}_2\text{Ga}$ ;  $\text{AuGa}$ ; Bln; Bismuth; Diamagnetism; Knight shift; NaTi; 12085. SP305-3.
- Polarization attenuators; Sheet polarizers; Spectrophotometry; Transmittance standards; Accuracy; Phase retardation plate; 12660. SP305-4.
- Polarization circuits; Ni-Fe pitting; Corrosion rates; Ni-Fe alloys; Polarization techniques; Polarization rate; Polarization resistance; *J. 70C3-230*, 187-194 (1966). SP305.
- Polarization curve; Average penetration rate; H-piles; Instantaneous corrosion rate; Linear polarization; Pit depth; *Monogr. 128*. SP305-4.
- Polarization curves; Underground aluminum culverts; Corrosion; Corrosive soil; Highway culverts; 10783. SP305-1.
- Polarization electrode; Standard Sea Water; Conductance; Conductivity; Extrapolation; Faradaic process; Frequency extrapolation; Palladium black; Platinum, polarization; 1430. SP305-6.
- Polarization electrostriction; Polymer; Pyroelectricity; Electromagnetic; Piezoelectricity; 16284. SP305-8.
- Polarization energy; Relaxation energy; Screening energy; Molecular hydrogen; Photoelectron spectroscopy; 1570. SP305-8.
- Polarization energy; Shell calculations; Solid solutions; Alkali halides; Heats of solution; Ion substitution; Lattice relaxation; 9300. SP305.
- Polarization energy shift; Relaxation energies; Chemisorption; Image potential shifts; 14975. SP305-7.
- Polarization measurements; Redox-potential; Soil corrosion; Soil resistivity; Biological activity; Chemical tests; Electrochemical tests; PH; 14310. SP305-6.
- Polarization of bonds; Proton assisted reactions; X-F bond; Fluorine; 13368. SP305-5.
- Polarization (of charge clouds); Rotational excitation; Scattering theory; Close-coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Exchange (of electrons); Hydrogen molecules; Inelastic scattering; Momentum transfer; 16532. SP305-8.
- Polarization of light; Reflectivity; Characterization surface; Liposomes; Interfacial studies; Optical constants; 132. SP305-5.
- Polarization potential; Scattering; Static potential; Vibrational excitation; Close-coupling calculations; Crossed beams; Cross sections; Differential cross sections; Electron scattering; Elastic scattering; Nitrogen molecules; 16533. SP305-8.
- Polarization rate; Polarization resistance; Polarization circuit; Ni-Fe pitting; Corrosion rates; Ni-Fe alloys; Polarization techniques; *J. 70C3-230*, 187-194 (1966). SP305.
- Polarization resistance; Polarization circuits; Ni-Fe pitting; Corrosion rates; Ni-Fe alloys; Polarization techniques; Polarization rate; *J. 70C3-230*, 187-194 (1966). SP305.
- Polarization techniques; Anaerobic corrosion; Depolarization agent; Ferrous ions; Marine corrosion; *marine Desulfobivibrio*; 13806. SP305-6.
- Polarization techniques; Polarization rate; Polarization resistance; Polarization circuits; Ni-Fe pitting; Corrosion rates; Ni-Fe alloys; *J. 70C3-230*, 187-194 (1966). SP305.
- Polarization techniques; Protective coatings; Steel piling; Cathodic protection; Coating index; Corrosion rates; Marine environment; 13804. SP305-6.
- Polarized crystal spectra; Cobalt in manganese fluoride; Crystal spectra; Manganese fluoride; Optical absorption; 95. SP305-1.
- Polarized electromagnetic radiation; Color photography; Electron microscopy; Electron probes; Evaluation; Metallography; Microscopy; 11994. SP305-3.
- Polarized electronic absorption spectrum; Tentative assignments based on selection rules; Bi-nuclear complex; Copper acetate monohydrate; 9155. SP305.

polarized light; Reflection; Thin films; Transmission; Interferometry; Kösters prism; Optical films; Phase shift; 14495. **SP305-6.**

Unpolarized luminescence; Symmetry; Transition metal ions; Chromium 3+; Crystal vacancies; Cubic crystals; Depolarization; Impurity compensation; Luminescence; Magnesium oxide; MgO; Optical properties; 16521. **SP305-8.**

Polarized neutrons; Polarized target;  $^{235}\text{U}(\text{n},\text{f})$ ; Fission channels; J; Multilevel fits; *SP425*, pp. 576-579. **SP305-7.**

Polarized optical spectrum; Dichloro(1,10-phenanthroline) copper; Dichloro(1,10-phenanthroline) zinc; D-d transition; Electron spin resonance spectrum; 9856. **SP305-1.**

Polarized optical spectrum; Trisphenanthroline copper(II) nitrate dihydrate; Trisphenanthroline zinc(II) nitrate dihydrate; D-d transitions; EPR spectrum; Jahn-Teller effect; 10228. **SP305-1.**

Polarized photons; Dynamic collective model; Giant resonance; Photon scattering; 13640. **SP305-5.**

Polarized photons; Sum rule; Giant resonance; Photon scattering; 10302. **SP305-1.**

Polarized photons; Tensor polarizability; Dynamic collective model; Giant resonance; Nuclear surface oscillations; Photon scattering; 13820. **SP305-6.**

Polarized radiation; Radiative transfer; Rayleigh scattering; Spherical geometry; Stellar atmospheres; 12640. **SP305-4.**

Polarized spectrum; Bis(acetylacetonato) copper (II); Bis(3-phenyl-2,4-pentanedionato) copper (II); Crystal spectrum; 9426. **SP305.**

Polarized target;  $^{235}\text{U}(\text{n},\text{f})$ ; Fission channels; J; Multilevel fits; Polarized neutrons; *SP425*, pp. 576-579. **SP305-7.**

Polarized ultraviolet spectrum; Tetrachlorocuprate ion; Copper doped tetrachlorozincate; E.p.r. analysis; Jahn-Teller effect; 9191. **SP305.**

Polarizer material; Visible; Infrared; Mercurous chloride; *NBSIR 74-507*. **SP305-8.**

Polarizer materials; Self-focusing; Absorption coefficient; Damage threshold; Electrostriction; Inclusion damage; Intrinsic damage; Kerr effect; Laser damage; Laser glasses; Laser rod materials; Modulator crystals; Nonlinear index of refraction; Optical glasses; *NBSIR 74-458*. **SP305-6.**

Polarizers; Coating damage; Laser damage; Mirrors; Multilayer dielectric coatings; *SP435*, pp. 298-304 (Apr. 1976). **SP305-8.**

Polarizers; Quasi-optics; Total reflection; Turnstile junction; Millimeter waves; 11744. **SP305-2.**

Polarizability; Solid density; Dielectric constant; Melting pressure; Parahydrogen; 10810. **SP305-1.**

Polarographic analysis; Air pollutant analysis; Chemical analysis; Gas analysis; Microchemical analysis; Microscopic analysis; *TN545*. **SP305-2.**

Polarographic analysis; Chemical analysis; Coulometric analysis; Gas analysis; Ionic equilibria; Ion-selective electrodes; Microchemical analysis; Microscopic analysis; *TN505*. **SP305-1.**

Polarographic analysis; Specific ion electrodes; Coulometric analysis; Gas analysis; Methods of chemical analysis; Microchemical analysis; Microscopic analysis; *TN455*. **SP305-1.**

Polarographic analysis; Standard reference materials, analysis of; Stoichiometry; Atomic weights; Coulometric analysis; Gas analysis; Mass spectrometric gas analysis; Microchemical analysis; *TN403*. **SP305.**

Polarographic analysis; Standard reference materials, analysis; Coulometric analysis; Gas analysis; Mass spectrometric gas analysis; Microchemical analysis; Null-point potentiometry; *TN425*. **SP305.**

Polarographic analysis; Trace analysis; Water analysis; 10490. **SP305-1.**

Polarography; Chemical analysis; Coulometry; Electrochemical analysis; Electrochemical instrumentation; Ion-selective electrodes; 11154. **SP305-2.**

Polarography; Chemical analysis; Coulometry; Electrochemical analysis; Ion-selective electrodes; 15479. **SP305-7.**

Polarography; Coulometric titration; Coulometry; Differential thermal analysis; Diffusion current; Dropping mercury electrode; Half-wave potential; 13935. **SP305-6.**

Polarography; Potentiometry; Standard Reference Materials; Acidity; Coulometric analysis; Electrochemical analysis; Ionic activity; Ion-selective electrodes; PH measurements; *TN583*. **SP305-5.**

Polarography; Potentiometry; Water analyses; Water pollution; Amperometry; Chronopotentiometry; Conductivity; Coulometry; Electrochemical analysis; 13192. **SP305-5.**

Polarography; Raman; Combining ratio; Complex; Infrared; Ion selective electrode; Lanthanum; Nitrate; 11355. **SP305-2.**

Polarography; Solvatochromic relationship; Ultraviolet and visible spectroscopy; Aromatic amine; Benzene derivative; Charge-transfer complex; Dental materials; Electron affinity; Electron spin resonance spectroscopy; *J. Res.* **80A** No. 2, 173-187 (1976). **SP305-8.**

Polarography; Spark source mass spectrometry; Spectrophotometry; Trace elements; Water pollution; X-ray fluorescence; Air pollution; Atomic absorption; Electron microprobe; Emission spectroscopy; Environmental analysis; Industrial effluents; 13783. **SP305-5.**

Polarography; Spectrochemical analysis; Thermal analysis; Wet chemistry; X-ray fluorescence; Activation analysis; Characterization; Chemical composition; Chromatographic analysis; Coulometry; Electron probe microanalysis; Ion-selective electrodes; Mass spectrometry; 15165. **SP305-7.**

Polarography; Spectrophotometry; X-ray fluorescence spectroscopy; Atomic absorption spectrophotometry; Emission spectroscopy; Nickel; Nickel-base alloys; *SP422*, pp. 1005-1016 (Aug. 1976). **SP305-8.**

Polarography; Zinc, determination of; Cadmium, determination of; Chemical analysis; Copper, determination of; 10680. **SP305-1.**

Polaron; Amorphous semiconductors; Anderson transition; Augmented plane wave method (APW); Chalcogenide glasses; Electronic density of states; Franck-Condon principle; Localized states; Mott insulator; NiO; Optical density-of-states; *SP323*, pp. 493-503. **SP305-4.**

Polaron; Semi-continuum model; Alkali halide; Alkaline earth fluoride; Alkaline earth oxide; F center; Ionic crystal; 10623. **SP305-1.**

Polarons; Semiconductors; Strontium titanate; Effective mass; Energy bands; Ionic crystals; 11011. **SP305-2.**

Pole dominance; Quasifree scattering; Rescattering effects; Separable potentials; Three-body problem;  $^3\text{He}$ ; 13126. **SP305-5.**

Police; Police equipment; Portable radio; Standards; Communications; Mobile radio; *NBSIR 73-211*. **SP305-6.**

Police; Police equipment; Security equipment; Surveillance equipment; Alarm systems; Cameras; *NBSIR 73-213*. **SP305-6.**

Police; Police equipment; Standards; *NBSIR 73-210*. **SP305-6.**

Police; Police equipment; Standards; Ammunition; Handguns; *NBSIR 73-214*. **SP305-6.**

Police; Police vehicles; Standards; Patrolcar; *NBSIR 73-216*. **SP305-6.**

Police; Standards; Ballistic protective equipment; Body armor; Confiscated weapons; *NBSIR 73-215*. **SP305-6.**

Police brake requirements; FMVSS 105a; LAPD brake tests; NBS survey; Patrolcar brakes; Patrolcar survey; 16148. **SP305-8.**

Police communications; Water pollution; X rays; Air pollution; Camera guidelines; Computerized elections; Dental fillings;

- Metre; Ozone problem; *DIM/NBS 59*, No. 5, 97-120 (1975). **SP305-7.**
- Police equipment; Portable radio; Standards; Communications; Mobile radio; Police; *NBSIR 73-211*. **SP305-6.**
- Police equipment; Security equipment; Surveillance equipment; Alarm systems; Cameras; Police; *NBSIR 73-213*. **SP305-6.**
- Police equipment; Sirens; Standards; Emergency warning lights; *NBSIR 73-212*. **SP305-6.**
- Police equipment; Standards; Ammunition; Handguns; Police; *NBSIR 73-214*. **SP305-6.**
- Police equipment; Standards; Police; *NBSIR 73-210*. **SP305-6.**
- Police fleets; Vehicle leasing; Vehicle management; Fleet management; Life cycle costing; Patrol cars; *NBSIR 74-471*. **SP305-6.**
- Police fleets; Vehicle leasing; Vehicle management; Fleet management; Life cycle costing; Patrol cars; *NBSIR 75-961*. **SP305-8.**
- Police helmets; Satellite time; Sprinkler systems; Aircraft failure; Copernicus; Corrosion; Length standard; Lens calibration; *DIM/NBS 58*, No. 4, 74-96 (1974). **SP305-6.**
- Police patrol cars; Problems with patrol cars; State of the art survey; Functional requirements; Patrol cars; Performance of patrol cars; *15826*. **SP305-8.**
- Police patrol cars; Problems with patrol cars; State of the art survey; Functional requirements; Patrol cars; Performance of patrol cars; *NBSIR 75-960*. **SP305-8.**
- Police protection; Safer streets; Security systems; WWW/WWVH; Accelerator facilities; Computers; Court records; Fire safety; Forensic science; Law enforcement; Methane; Metric; *DIM/NBS 59*, No. 3, 49-72 (1975). **SP305-7.**
- Police radar equipment; Standards; Supermarket automation; Weights and measures; Calibration; Communication; Consumers; Grain moisture measurement; Laws and regulations; Measurement; Metric; Packaging and labeling; *SP442*. **SP305-8.**
- Police radars; Solar energy; SRM's; Computer systems; Environmental; Fire; Glass door; Lead nitrate; Mercury thermometers; Metric; Nuclear power; *DIM/NBS 60*, No. 2, 1-25 (1976). **SP305-8.**
- Police vehicles; Standards; Patrolcar; Police; *NBSIR 73-216*. **SP305-6.**
- Policies; Private sector; R&D; Technological change; Decision-making; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; *NBS-GCR-ETIP 76-03*. **SP305-8.**
- Policies; Private sector; R&D; Technological change; Decision-making; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; *NBS-GCR-ETIP 76-04*. **SP305-8.**
- Policies; Queuing model; Scheduling; Simulation; Systems; Administration; Health; Hospital; Managerial applications; Model; *12803*. **SP305-4.**
- Policies; R&D; Technological change; Technology; Demonstration projects; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Guidelines; *NBS-GCR-ETIP 76-05*. **SP305-8.**
- Policies; R&D; Technological change; Technology; Demonstration projects; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Guidelines; *NBS-GCR-ETIP 76-06*. **SP305-8.**
- Policy alternatives; Applied microeconomic framework; Commodity supply crisis; Econometric analysis; Economic impacts; Efficiency impacts; Income distribution effects; *NBS-GCR-ETIP 76-24*. **SP305-8.**
- Poling; Polymer; Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric effect; Relative spectral response; Ultraviolet detector; Heat detector; Optical radiation sensor; *15183*. **SP305-7.**
- Poling; Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric coefficient; Pyroelectricity; Piezoelectricity; *13546*. **SP305-4.**
- Polish notation; Push-down; Radioactivity and isotopic calculations; Recursion; Statistical calculations; Instruction iteration; Memory register; Operational stack; Pop-up; *13740*. **SP305-5.**
- Polished; Roughness; Substrate; Surface; Thick film; Thin film; Waviness; Camber; Ceramic; Fired; Flatness; Ground; Lapped; Microwave; *SP348*, pp. 293-300. **SP305-4.**
- Polishing; Quartz; Shaping; Closed die; Forging; Isostat; *SP462*, pp. 95-99 (Dec. 1976). **SP305-8.**
- Polishing; Radiation damage; Sputtering; Figuring; Ion-beam Optical surfaces; *SP348*, pp. 155-168. **SP305-4.**
- Polishing; Residual stresses; Crack removal; Surface analysis; Theory of grinding; Abrasive; Ceramics; Diamond; Fracture; Grinding; Grinding forces; Grinding temperatures; Machining; *SP348*, pp. 5-35. **SP305-4.**
- Polishing; Roughness; Surface damage; Thin films; Threshold; Damage threshold; Etching; Flame polishing; Fused silica; Hydroxyl; Ion polishing; *SP462*, pp. 310-314 (Dec. 1976). **SP305-8.**
- Polishing; Scattered light; Surface absorption; Alkali-halide KCl; Laser windows; Optical figure; *SP435*, pp. 20-28 (Apr. 1976). **SP305-8.**
- Polishing; Surfaces; Zinc selenide; Copper; Molybdenum; Optical; *SP435*, pp. 10-13 (Apr. 1976). **SP305-8.**
- Polishing compound; Absorption; Electron avalanche; Laser damage; Plasma formation; *SP387*, pp. 69-79. **SP305-5.**
- Polishing compounds; Spot-size dependence; Surface defect; Rutile crystal damage; Yttrium orthovanadate crystal damage; Damage morphology; *SP414*, pp. 193-199. **SP305-8.**
- Polishing instruments; Surface finish; Composite restorative materials; Finishing; Operative dentistry; *12308*. **SP305-3.**
- Political; Technical; Technology; Zoning; Building code; Climate; Control; Coordinate; Economics; Geography; *95*. **SP305-1.**
- Politics and the environment; Environment; Environmental impact statement; Environmental movement; National Environmental Policy Act (NEPA); *13785*. **SP305-5.**
- Pollutant monitoring; Electrode monitoring; Industrial monitoring; Ion-selective electrodes; *11999*. **SP305-3.**
- Pollutant photochemistry; Pollutants; Soil pollution; Solar spectrum; Water pollution; Adsorption; Nonbiological transformation; Nonbiological transport; *NBSIR 76-1130*. **SP305-8.**
- Pollutants; Quaternization; Alkyl halides; Antimony; Arsenic; Environment; Kinetics; Methylation; Nucleophilic reactivity; Onium salts; Polar solvents; *16228A*. **SP305-8.**
- Pollutants; Soil pollution; Solar spectrum; Water pollution; Adsorption; Nonbiological transformation; Nonbiological transport; Pollutant photochemistry; *NBSIR 76-1130*. **SP305-8.**
- Pollutants; Standard reference materials; Air and water quality; Energy; *16157*. **SP305-8.**
- Pollution; CH; Free radical; HCO; HO; Laser magnetic resonance; OH; *15680*. **SP305-7.**
- Pollution; Pressure loss; Ventilation; Exchanger dimensions; Frost formation; Heat exchanger; Heating costs; Mechanical systems; *TN710-5*. **SP305-4.**
- Pollution; Psychophysics; *14417*. **SP305-6.**
- Pollution; Pyrolysis; Reactive gas generator; Sulfur dioxide; Acetaldehyde; Acrolein; Formaldehyde; Gas chromatography; Hydrogen chloride; Hydrogen cyanide; *NBSIR 1000*. **SP305-8.**
- Pollution; Pyrolysis; SO<sub>2</sub>; Standards; *14332*. **SP305-6.**
- Pollution; Radiochemical separations; Selenium; Activation analysis; Arsenic; Cadmium; Environment; Mercury; *143*. **SP305-6.**
- Pollution; Radiometry; Remote sensing; Agriculture; Clinical analysis; Economic impact; Energy crisis; Meteorology; Photometry; Phototherapy; *TN594-4*. **SP305-5.**



- llution; Screw threads; Smoke and gas fatalities; Waster; Water; Computer vote; Cost-sharing; Cryogenic data; Earthquake; Energy; Grain alcohol; Measurement science; *DTM/NBS 58*, No. 12, 265-288 (1974). **SP305-6.**
- llution; Seawater; Baseline studies; Gas chromatography; Gas chromatography-mass spectrometry; Hydrocarbon; Liquid chromatography; Marine sediments; *15706*. **SP305-7.**
- llution; Sediment; Trace elements; Water; Wet chemical analysis; Atomic absorption analysis; Californium-252; Mahoning River; Neutron activation analysis; *SP422*, pp. 225-230 (Aug. 1976). **SP305-8.**
- llution; Sound; Acoustics; Environmental control; Measurement; Noise; *12730*. **SP305-4.**
- llution; Spectra; Absorption spectra; Infrared; Molecular energy levels; Ozone; *15311*. **SP305-7.**
- llution; Standard reference material; Activation analysis; Coal; Mercury; *12676*. **SP305-4.**
- llution; Technology; Performance standards; *12637*. **SP305-4.**
- llution; Vinyl chloride; Detector; Laser; *15027*. **SP305-7.**
- llution analysis; Technique used; Activation analysis; Element determined; Matrix analyzed; *TN532*. **SP305-2.**
- llution monitoring; Radiometry; Remote sensing; Safety; Energy crisis; Health; Meteorology; Photometry; *14674*. **SP305-6.**
- llution monitoring; Rainwater analysis; Sample stability; Surface water analysis; Filtration losses; Metallic ions; *SP422*, pp. 633-648 (Aug. 1976). **SP305-8.**
- llution abatement; User fees; Wastewater; Water pollution; Water resources; Cost sharing; Economic efficiency; Environment; Equity; Financing; Grants; *16564*. **SP305-8.**
- llution abatement; Wastewater; Water pollution; Water resources; Cost sharing; Efficiency; Environment; Financing; Grants; *15810*. **SP305-8.**
- llution, lead; Sampling techniques; Trace analysis of lead; Waters, lead in; Accuracy of atomic absorption analytical techniques; Accuracy of isotope dilution analytical techniques; Errors in lead analyses; Lead; *SP422*, pp. 321-351 (Aug. 1976). **SP305-8.**
- llution reduction; Bus transit; Buses; Carpools; Energy impacts; Mode choice; *15724*. **SP305-8.**
- llution-210; Self absorption; Uranium-oxide; Alpha particles; Backscattering; Gadolinium-148; *15807*. **SP305-8.**
- ly  $\alpha$ -methylstyrene, zip-length; Polymers; Pyrolysis; *14632*. **SP305-6.**
- ly (vinyl chloride) siding; Siding, poly (vinyl chloride); Weathering of plastic siding; Building materials; Flammability of outdoor siding; Plastic material; *P555-72*. **SP305-4.**
- lyacrylate; Polyurethanes; Resins; Restorative; Adhesive; Cements; Composites; Cyanoacrylates; Dental; Methacrylate; *12805*. **SP305-4.**
- lyacrylic; Polyethylene imine; Polyethylene oxide; Polymer degradation; Polymethacrylic acid; Polypropylene oxide; Polyvinyl alcohol; Starch; Abstraction; Dextran; Dextrin; Free radicals; Hydroxyl; *J72A No. 1*, 49-73 (1968). **SP305-1.**
- ly (acrylic-itaconic acid); Polycarboxylate; Potassium titanate; Base, dental; Cement, dental; Cement, polycarboxylate; Cement, reinforced; Fiber reinforcement; *15013*. **SP305-7.**
- lyacrylonitrile; Polyamides; Reflection of x-rays; Soft x-rays; X-rays; Fibers; Microfocus tubes; Microradiography; Nylon; *9488*. **SP305.**
- lyacrylonitrile; Propagation; Cyanide groups; Initiation; Isolation; Naphthylidene ring; *9489*. **SP305.**
- lyamide; Radical; Diffusion-controlled reaction; Electron spin resonance; Irradiation; Kinetics of intermediates; *9859*. **SP305-1.**
- lyamides; Reflection of x-rays; Soft x-rays; X-rays; Fibers; Microfocus tubes; Microradiography; Nylon; Polyacrylonitrile; *9488*. **SP305.**
- Polyatomic gases; Pressure second virial coefficients; Quadrupole moment; Statistical mechanics; Clausius-Mossotti function; Dielectric virial coefficients; M-6-8 potential; Polarizability; *13593*. **SP305-5.**
- Polyatomic molecules; Quadrupole coupling constants; Rotational constant; Spectral lines; Barrier height; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; Hindered rotation; Internal rotation; *Monogr. 70, Volume III*. **SP305-1.**
- Polyatomic molecules; Quadrupole coupling constants; Rotational constant; Spectral lines; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; L-doubling; Microwave spectra; Molecular spectra; *Monogr. 70, Volume IV*. **SP305-1.**
- Polyatomic molecules; Raman spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; *NSRDS-NBS39*. **SP305-4.**
- Polyatomic molecules; Raman spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; *J. Phys. Chem. Ref. Data 1*, No. 1, 189-216 (1972). **SP305-6.**
- Polyatomic molecules; Raman spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; *J. Phys. Chem. Ref. Data 2*, No. 1, 121-161 (1973). **SP305-6.**
- Polyatomic molecules; Raman spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; *J. Phys. Chem. Ref. Data 2*, No. 2, 225-256 (1973). **SP305-6.**
- Polyatomic molecules; Raman spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; *J. Phys. Chem. Ref. Data 3*, No. 1, 269-308 (1974). **SP305-6.**
- Polyatomic molecules; Rotational quantum numbers; Spectral lines; Diatomic molecules; Hyperfine; Microwave spectra; Molecular spectra; *Monogr. 70, Volume V*. **SP305-1.**
- Polybutadiene; Homogeneous anionic polymerization; Monodisperse, polystyrene, poly- $\alpha$ -methylstyrene; Polyisoprene; *J70A5-141*, 421-433 (1966). **SP305.**
- Polybutadiene; Polyethylene; Polyisobutylene; Rubber; Specific heat; Butadiene-acrylonitrile copolymer; Butadiene-styrene copolymers; Crystallization of rubber; Elastomers; *9520*. **SP305.**
- Polybutene; Polyvinyl chloride; PVC; Residual stress; Thermoplastic piping; ABS; Coefficient of expansion; CPVC; Glass transition temperature; Hardness; PB; *NBSIR 74-629*. **SP305-7.**
- Poly(butyl-isocyanate); Polymer chain configuration; Polypeptides; Rodlike molecules; Dielectric constant; Dielectric relaxation time; Dipole moment; Kratky-Porod worm-like model; Molecular relaxation in dilute solution; *11262*. **SP305-2.**
- Polybutylisocyanate; Rotary diffusion; Dielectric measurements; Dilute benzene solution; *10143*. **SP305-1.**
- Polycarbonate; Polyethylene; Polystyrene; Properties of certain polymers; Polymers; Dielectric properties of certain polymers; Humidity change; *10057*. **SP305-1.**
- Polycarbonate; Polyethylene; Poly(1,4-cyclohexylenedimethylene terephthalate); Polystyrene; Poly(tetrafluorethylene); Time; Reference specimens; Dielectric constant; Dissipation factor; Frequency; *J71C2-251*, 119-125 (1967). **SP305.**
- Polycarbonate; Polystyrene; Polyvinylbutyl; Polyvinylchloride; Tinfoil electrodes; Anomalous d-c conductance; Conductive rubber electrodes; Epoxy; *10056*. **SP305-1.**
- Polycarbonate detector; Rapid analysis; Uranium; Coal; Fission track technique; Fly ash; Mica detector; *15457*. **SP305-7.**
- Polycarboxylate; Potassium titanate; Base, dental; Cement, dental; Cement, polycarboxylate; Cement, reinforced; Fiber reinforcement; Poly(acrylic-itaconic acid); *15013*. **SP305-7.**
- Polychlorinated biphenyl; Transformers; Dielectric fluids; Heat transfer; Plasticizers; *13074*. **SP305-5.**



- lyester; Polymer adsorption; Adsorption; Configuration of adsorbed polymer; Conformation of adsorbed polymer; Ellipsometry; Infrared; 10438. SP305-1.
- lyester; Polymer substrates; Pyrolysis-gas chromatography; Textiles; Thermal analysis; Calorimetry; Cellulose; Flames; Flammable gases; Nylon; Oxidation reactions; Oxygen index; Phosphorus; SP411, pp. 37-49. SP305-6.
- lyester; Precondensates; Radiation grafting; Antimony oxide; Bromine; Bromine flame retardants; Calorimetry; Cotton; Cotton/polyester; ETIP; Fabric flammability; Flame retardant mechanisms; Flame retardant monomers; Flame retardants; Hand modifiers; NBS-GCR-ETIP 76-22. SP305-8.
- lyester; Rayon; Treatments; Cotton; Fabrics; Flame retardants; Flammability; Phosphorus; NBS-GCR-73-16. SP305-8.
- lyester and nylon fabrics; Sewn seams; Sewn seam strapping; Solar heat load; Test procedure; Adhesives; Air-inflatable shelter sections; Cloth webs; NBSIR 74-467. SP305-6.
- lyester/cotton fabrics; Cotton fabrics; Extinguishability; Flammability; 16149. SP305-8.
- lyethylene; Linear and branched; Temperature drift method; Calorimetry; Glass transition temperature; Partially crystalline polymer; 12353. SP305-5.
- lyethylene; Polyisobutylene; Rubber; Specific heat; Butadiene-acrylonitrile copolymer; Butadiene-styrene copolymers; Crystallization of rubber; Elastomers; Polybutadiene; 9520. SP305.
- lyethylene; Polymer; Frequency spectrum; Linear chains; *n*-alkanes; 13743. SP305-5.
- lyethylene; Polymer; Polymorphism; Diamond anvil pressure cell; High pressure; 14688. SP305-6.
- lyethylene; Polymer; Semicrystalline; Vacancy; Annealing; Chain fold; Chain rotation; Chain twisting; Defect; Dielectric relaxation; Mechanical relaxation; Polychlorotrifluoroethylene; 9462. SP305.
- lyethylene; Polymer crystallization; Polystyrene; Undercooling; Chain folds; Growth rate; Isotactic; Lamellar thickness; Nucleation theory; 14364. SP305-6.
- lyethylene; Polymer degradation; Stability of polymers; Thermogravimetry; Energy of activation; Initial kinetic parameters; Non-isothermal kinetics; 9451. SP305.
- lyethylene; Polymers; Bulk modulus; Grüneisen constant; Infrared; Lattice vibrations; 13739. SP305-5.
- lyethylene; Polymers; Pressure; Volume; Anderson-Grüneisen parameter; Bulk modulus; Compressibility; Grüneisen constant; Pair potential; Paraffins; 11677. SP305-2.
- lyethylene; Polymers; Surface free energy; Chain folding; Crystal growth; Crystallization kinetics; Homogeneous nucleation; Interfacial energy; Nucleation; Polychlorotrifluoroethylene; 9454. SP305.
- lyethylene; Polystyrene; Differential refractive index; Differential refractometer; Lorentz-Lorenz; Molecular weight; *n*-alkanes; 12428. SP305-4.
- lyethylene; Polystyrene; Properties of certain polymers; Polymers; Dielectric properties of certain polymers; Humidity change; Polycarbonate; 10057. SP305-1.
- lyethylene; Polystyrene; Radiochromic dyes; 10-MeV electrons; Aluminum; Carbon; Depth dose; Depth-dose distributions; Dye-film dosimeters; NBSIR 73-413. SP305-6.
- lyethylene; Poly(1,4-cyclohexylenedimethylene terephthalate); Polystyrene; Poly(tetrafluoroethylene); Time; Reference specimens; Dielectric constant; Dissipation factor; Frequency; Fluorinated ethylene-propylene; J71C2-251, 119-125 (1967). SP305.
- lyethylene; Potential energy calculations; Relaxation strength; Two-site model; Mechanical relaxation; Methyl branches; Paraffins; 14752. SP305-7.
- lyethylene; Potential energy calculations; Relaxation mechanism; Relaxation strength; Site model; Mechanical relaxation; Methyl branches; Paraffins; 15329. SP305-7.
- Polyethylene; Pressure dependence; Bulk modulus; Density; Equation of state; Glass transition temperature; 14325. SP305-6.
- Polyethylene; Properties; Sheet; Agricultural; Composition; Construction; Industrial; PS17-69. SP305-2.
- Polyethylene; Quasi-harmonic specific heat; String of beads; Thermal expansion; Thermal properties; Volume; Bulk modulus; Grüneisen; *n*-alkanes; Normal mode; 12305. SP305-3.
- Polyethylene; Raman spectroscopy; Rotatory lattice modes; *n*-alkanes; 16218. SP305-8.
- Polyethylene; Raman spectroscopy; Alkanes; Longitudinal acoustical mode; Methyl group branches; 16279. SP305-8.
- Polyethylene; Raman-active longitudinal acoustic mode; Localized defects; *n*-alkanes; 16219. SP305-8.
- Polyethylene; Regime I; Regime II; Spherulite; Axialite; Chain folds; Crystallization rate; Molecular weight; Nucleation theory; J.79A No. 6, 671-699 (1975). SP305-7.
- Polyethylene; Relaxation; Solvent; Unit cell; Alpha; Density; Lamella thickness; 12577. SP305-4.
- Polyethylene; Relaxation; Solvent; Unit cell; Annealing; Density; Lamella thickness; Mechanical; 12824. SP305-4.
- Polyethylene; Relaxation; Temperature drifts; Annealed; Crystallinity; Glass transition; 13945. SP305-6.
- Polyethylene; Relaxations; Shear; Temperature; Torsion pendulum; *a*, *c* face of cell; Compliance; Crystallization-oriented; Lamella thickness; Logarithmic-decrement; Modulus; 9689. SP305-1.
- Polyethylene; Rotational potentials; Spin-lattice relaxation; Alkanes; Carbon-13; Magnetic resonance; Molecular motion; 14077. SP305-6.
- Polyethylene; Short-chain branching; Branching; Limiting viscosity numbers; Long-chain branching; Nuclear magnetic resonance; 16244. SP305-8.
- Polyethylene; Solvent; Temperature; Time; Unit cell; Annealing; Crystallization; Deformation; Density; Fold surface; Melt; 10897. SP305-2.
- Polyethylene; Specific volume; Superposition; Thermal expansion; Volume relaxation, WLF; Dilatometer; Isothermal volume change; 13774. SP305-5.
- Polyethylene; Surface free energies; Chain folds; Fractions; Homogeneous nucleation; Molecular weight; Nucleation theory; J.79A No. 6, 701-711 (1975). SP305-7.
- Polyethylene; Surface free energy; Crystallization; Homogeneous nucleation; Kinetics; Microscopy; 9752. SP305-1.
- Polyethylene; Temperature drift; Thermodynamic properties; Glass transition; Heat capacity; High molecular weight linear polyethylene; J. Res. 80A No. 1, 51-57 (1976). SP305-8.
- Polyethylene; Thermal analysis; Thermodynamic properties; Branched polyethylene; Calorimetry; Glass transition; Heat capacity; Linear polyethylene; J.77A No. 4, 395-405 (1973). SP305-5.
- Polyethylene; Thermodynamic properties; Convergence temperature; Melting temperatures; Methyl surfaces; *n*-paraffins; J.70A6-421, 481-486 (1966). SP305.
- Polyethylene; Thermodynamic properties; Amorphous polyethylene; Calorimetry; Crystalline polyethylene; Extended chain crystals; Glass transition temperature; Heat capacity; Linear polyethylene; J.78A No. 3, 387-400 (1974). SP305-6.
- Polyethylene; Thermodynamic properties; Adiabatic calorimetry; Branched polyethylene; Calorimetry; Cryogenic temperature; Heat capacity; Linear polyethylene; J.79A No. 2, 437-441 (1975). SP305-7.
- Polyethylene; Unit cell; Crystal; Defects; Irradiation; 12467. SP305-4.
- Polyethylene; Unit cell; X ray; Crystal surfaces; Density; Lamella thickness; Paraffins; 14724. SP305-7.
- Polyethylene fractions; Second virial coefficient; Solution properties; End-to-end distance; Light scattering; Linear polyethylene;  $M_w$ ; J.76A No. 2, 156-160 (1972). SP305-4.

Polyethylene imine; Polyethylene oxide; Polymer degradation; Polymethacrylic acid; Polypropylene oxide; Polyvinyl alcohol; Starch; Abstraction; Dextran; Dextrin; Free radicals; Hydroxyl; Polyacrylic; *J.72A No. 1, 49-73 (1968)*. **SP305-1.**

Poly(ethylene oxide); Polymer; Polypropylene; Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; Mechanism; Organic compound; Oxidative degradation; Peroxy radical isomerization; *SP357*, pp. 85-92. **SP305-4.**

Polyethylene oxide; Polymer degradation; Polymethacrylic acid; Polypropylene oxide; Polyvinyl alcohol; Starch; Abstraction; Dextran; Dextrin; Free radicals; Hydroxyl; Polyacrylic; Polyethylene imine; *J.72A No. 1, 49-73 (1968)*. **SP305-1.**

Polyethylene oxide; Tetrahydrofuran; Hydroxyl radicals; Electron spin resonance; Free radicals; Polyvinyl alcohol; *9175*. **SP305.**

Polyethylene (PE); Pressure; Standard dimension ratio (SDR); Inside diameter dimensions; Materials; Pipe; *PS11-69*. **SP305-2.**

Polyethylene (PE); Schedule size (40 and 80); Dimensions; Materials; Outside diameter; Pipe; *PS12-69*. **SP305-2.**

Polyethylene phonon dispersion curves; Raman spectroscopy-lattice vibrations; *n*-paraffins; *13655*. **SP305-5.**

Polyethylene plastic; Schedule 40; Dimensions; Inside diameter; Materials; Pipe; *PS10-69*. **SP305-2.**

Polyethylene standard; Polystyrene standard; Standard reference materials; Standard reference polymers; Gel permeation chromatograph calibration; Limiting viscosity number; Molecular weight; Molecular weight distribution; *14036*. **SP305-6.**

Poly(ethylene terephthalate); Proton damage; Proton energy; Radiation effect; Radiation intensity; Recovery; Solubility; Space simulation; Temperature effect; Tests; Viscosity; Electron damage; Electron energy; *SP336*, pp. 323-344. **SP305-3.**

Polyethylene terephthalate; Thin films; Two fluid; Dielectric constant; Dissipation factor; Electrical measurements; FEP fluorocarbon; *12703*. **SP305-4.**

Polyethylene terephthalate; Polypyromellitimide; Relative creep; Thermoelastic; Transverse; Longitudinal; *12165*. **SP305-3.**

Polyglycine I; Frequency distribution; Lattice vibrations; Normal mode analysis; *14389*. **SP305-6.**

Polyhedral; Algebraic; Cones; Faces; Jordan-equivalent; Matrices; *16044*. **SP305-8.**

Polyhydroxy cyclic compounds; Standard reference materials; Sucrose; Sulfonic Ka measurements; Urea; Uric acid; Acetylation; Analysis of corn syrups; Carbohydrate structure and characterization; Cholesterol; Clinical chemistry; Creatinine; *TN457*. **SP305-1.**

Polyisobutylene; BKZ; Nonlinear shear behavior; *14507*. **SP305-6.**

Polyisobutylene; Polystyrene; Superposition; BKZ theory; Concentrated solutions; Nonlinear behavior; *14566*. **SP305-6.**

Polyisobutylene; Polyvinylchloride; Recovery; Stress relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; Nonlinear behavior; *10144*. **SP305-1.**

Polyisobutylene; Recovery; Stress; Relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; Nonlinear behavior; *J.70A6-423, 525-532 (1966)*. **SP305.**

Polyisobutylene; Rubber; Specific heat; Butadiene-acrylonitrile copolymer; Butadiene-styrene copolymers; Crystallization of rubber; Elastomers; Polybutadiene; Polyethylene; *9520*. **SP305.**

Polyisobutylene; Stress relaxation; Viscosity; BKZ fluid; Nonlinear behavior; *J.75A No. 1, 33-40 (1971)*. **SP305-3.**

Polyisoprene; Polybutadiene; Homogeneous anionic polymerization; Monodisperse, polystyrene, poly- $\alpha$ -methylstyrene; *J.70A5-414, 421-433 (1966)*. **SP305.**

Poly-L-proline; Polypeptides; Carbon-13; Nuclear magnetic resonance; *14386*. **SP305-6.**

Polymer; Chain-folded crystal; Partition function; Phase transition; *14404*. **SP305-6.**

Polymer; Crystallization; Growth rate; Nucleation substrate; *14376*. **SP305-6.**

Polymer; Frequency spectrum; Linear chains; *n*-alkanes; Polyethylene; *13743*. **SP305-5.**

Polymer; Polymer separation; Chromatography; Elution volume; Flow; Gel permeation chromatography; Hydrodynamic volume; *12149*. **SP305-3.**

Polymer; Polymorphism; Diamond anvil pressure cell; 1000 pressure; Polyethylene; *14688*. **SP305-6.**

Polymer; Polyoxymethylene; Solution grown; Chain-folded crystal; Curved; Electron microscopy; Optical microscopy; *J.78A No. 2, 95-127 (1974)*. **SP305-6.**

Polymer; Polypropylene; Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; Mechanism; Organic compound; Oxidative degradation; Peroxy radical isomerization; Poly(ethylene oxide); *SP357*, pp. 85-92. **SP305-4.**

Polymer; Polystyrene; Segment;  $\Theta$  solvent; Adsorption; Chain concentration; Interface; Isotherm; *9786*. **SP305-1.**

Polymer; Polystyrene; Solvent effects; Ultraviolet absorption; Carbon tetrachloride; Cyclohexane; Ethylbenzene; Extinction coefficient; *J.71A2-449, 169-175 (1967)*. **SP305.**

Polymer; Polyurethane; Resilience; Thermal properties; Absorptive; Low temperature; Mechanical properties; *1115*. **SP305-2.**

Polymer; Polyvinyl acetate; Copolymer; Intrinsic viscosity; Latex; Mark-Houwink; Molecular weight; *9581*. **SP305-1.**

Polymer; Poly(vinyl acetate); Pressure; Thermal; Volume; Compressibility; Configuration; Entropy; Heat capacity; Holes; *16077*. **SP305-8.**

Polymer; Poly(vinyl acetate); PVT; Relaxation; Derivative; Dilatometer; Entropy; Glass transition; Glass; Liquid; *J.7A No. 3, 331-353 (1974)*. **SP305-6.**

Polymer; Poly(vinyl acetate); PVT; Relaxation; Viscosity; Intrinsic; Entropy; Free volume; Glasses; Glass transition; Liquid; *14777*. **SP305-7.**

Polymer; Poly(vinyl acetate); PVT; Thermodynamic; Liquid; Configurational; Glass; Glass transition; Hole theory; *1410*. **SP305-7.**

Polymer; Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric; Detector; Infrared; *14349*. **SP305-6.**

Polymer; Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric effect; Relative spectral response; Ultraviolet detector; Heat detector; Optical radiation sensor; Poling; *153*. **SP305-7.**

Polymer; Polyvinylchloride; Transducer; Underwater sound; Piezoelectricity; Piezoelectric modulus; *12276*. **SP305-3.**

Polymer; Preparation; Purity; Sampling; Standard sample; Volatile content; Ash content; Elemental analysis; Homogeneity; Lithium content; Molecular weights; *J.71A 435, 43-47 (1967)*. **SP305.**

Polymer; Pressure; Pressure transducer; Theory; Transducer; Calibration; Construction; Impact; Interface; Piezoelectric polymer; *NBSIR 75-740*. **SP305-7.**

Polymer; Propylene; Tetrafluoroethylene; Copolymer; Fluoropolymer; Glass temperature; Isobutylene; Melting temperature; *14570*. **SP305-6.**

Polymer; Proton magnetic resonance; Spectroscopy; Arrhenius; amine; Multiple regression analysis; Nuclear magnetic resonance; *12431*. **SP305-4.**

Polymer; Pyroelectric; Dipoles; Electret; Glass transition; *14174*. **SP305-6.**

Polymer; Pyroelectricity; Electret; Piezoelectricity; Polarization; electrostriction; *16284*. **SP305-8.**

Polymer; Pyrolysis; Smoke; Specific optical density; Toxic gases; Toxicity; Combustion; *SP411*, pp. 105-124. **SP305-3.**

Polymer; Radius; Two segments; Distribution; Gyration; *1417*. **SP305-3.**



- lymer; Radius of gyration; Tchebichef Polynomial; Brownian chain; Distribution; Gaussian; 10287. **SP305-1.**
- lymer; Recrystallization; Crystallization; Degree of crystallinity; Density; Linear polyethylene; *J76A No. 2, 143-144 (1972).* **SP305-4.**
- lymer; Resin; Wear; Adhesion; Adsorption; Alloys; Composites; Dental; Grafting; Investments; *NBSIR 76-1095.* **SP305-8.**
- lymer; Semicrystalline; Vacancy; Annealing; Chain fold; Chain rotation; Chain twisting; Defect; Dielectric relaxation; Mechanical relaxation; Polychlorotrifluoroethylene; Polyethylene; 9462. **SP305.**
- lymer; Simulation; Chain dynamics; Lattice model; Monte Carlo; 11466. **SP305-2.**
- lymer; Solution; Surface free energy; Theory; Thermodynamics; Bulk; Chain fold; Crystallization; Fluctuation; Growth; Heat of melting; Homogeneous nucleation; Kinetics; Lamella thickness; Melt; Melting point; Nucleation; 11329. **SP305-2.**
- lymer; Solution; Theory; Diffusion coefficient; 9425. **SP305.**
- lymer; Solution-grown; Chain-folded; Crystal, curved; Electron microscopy; Lamellar; Optical microscopy; Poly(4-methylpentene-1); *J76A No. 3, 225-252 (1972).* **SP305-4.**
- lymer; Specific heat; Strain energy; Supercooled liquid; Thermal relaxation; Glassy state; Glass transition; Heat capacity; 6309. **SP305-8.**
- lymer; Standard reference polymer; Enthalpy; Heat of combustion; Heat of crystallization; Heat of formation; *J78A No. 6, 611-616 (1974).* **SP305-6.**
- lymer; Thermal; 8-hydroxyquinoline; Bis(8-hydroxy-5-quinolyl)methane; Coordination; Copper; Decomposition; Infrared spectrophotometry; Ligand; Mass spectrometry; 1261. **SP305-2.**
- lymer abnormalities; Polymer degradation; Polymer pyrolysis; Transfer reactions; Free radicals; *SP357, pp. 61-70.* **SP305-8.**
- lymer adsorption; Adsorption; Configuration of adsorbed polymer; Conformation of adsorbed polymer; Ellipsometry; Infrared; Polyester; 10438. **SP305-1.**
- lymer adsorption; Adsorption; Configuration of adsorbed polymer; Interface; 11148. **SP305-2.**
- lymer adsorption; Polymer adsorption review; Review of polymer adsorption; Surface studies; Adsorption of polymers; Adsorption of polymers review; Interface studies; 10095. **SP305-1.**
- lymer adsorption; Polystyrene; Adsorption; Adsorption of polymers; Conformation of adsorbed polymers; Ellipsometry; Mercury; 10156. **SP305-1.**
- lymer adsorption; Protein adsorption; Adsorption; Blood protein; Bound fraction; Ellipsometry; *NBSIR 74-470.* **SP305-6.**
- lymer adsorption; Protein adsorption; Synthetic implants; Adsorption; Blood protein; Bound fraction; Ellipsometry; Implants; *NBSIR 75-667.* **SP305-8.**
- lymer adsorption; Protein adsorption; Synthetic implants; Adsorption; Blood protein; Bound fraction; Ellipsometry; Implants; *NBSIR 76-1017.* **SP305-8.**
- lymer adsorption; Random walk model; Adhesion; Grand canonical ensemble formalism; 12447. **SP305-4.**
- lymer adsorption; Refractive index in ultraviolet region; Total reflection; Ultraviolet spectrophotometry; Adsorption of polymers; Attenuated total reflection; Conformation of adsorbed polymer molecules; Frustrated total reflection; 9988. **SP305-1.**
- lymer adsorption; Surface layer;  $\theta$ -point; Trains; Configurations; Excluded volume effect; Loops; 12240. **SP305-3.**
- lymer adsorption review; Review of polymer adsorption; Surface studies; Adsorption of polymers; Adsorption of polymers review; Interface studies; Polymer adsorption; 10095. **SP305-1.**
- Polymer analysis; Properties; Test methods; Nonpolymeric constituents in plastics; Plastics testing; 16225. **SP305-8.**
- Polymer burning; Pyrolysis; Rapid heating; Surface pyrolysis; Surface temperature measurement; Thermal degradation; Combustion; Flammability; Kinetics; *SP357, pp. 185-192.* **SP305-4.**
- Polymer chain configuration; Polypeptides; Rodlike molecules; Dielectric constant; Dielectric relaxation time; Dipole moment; Kratky-Porod worm-like model; Molecular relaxation in dilute solution; Poly(butyl-isocyanate); 11262. **SP305-2.**
- Polymer chain dynamics; Radius of gyration; Relaxation; Statistical-bead model; Autocorrelation; Correlation; End-to-end length; Fokker-Planck equation; 9515. **SP305.**
- Polymer chain dynamics; Random-coil; End-to-end length; Monte Carlo; 14401. **SP305-6.**
- Polymer chain dynamics; Relaxation; End-to-end length; Excluded volume; Monte Carlo; 12408. **SP305-4.**
- Polymer chain dynamics; Relaxation; Simulation; Distribution; End-to-end length; Lattice model; Monte Carlo; 9514. **SP305.**
- Polymer chain dynamics; Relaxation times; Excluded volume; Lattice-model polymer chains; Monte Carlo; 14024. **SP305-6.**
- Polymer chain dynamics; Relaxation times; Lattice-model polymer chains; Monte Carlo; 14025. **SP305-6.**
- Polymer chains; Ratio method; Self-avoiding walks; Span; 14015. **SP305-6.**
- Polymer characterization; Polymer identification; Pyrolysis-gas chromatography of polymers; Pyrolytic techniques; Chromatographic analysis of degradation products; 11798. **SP305-3.**
- Polymer coatings; Solid film lubricants; Sputtered coatings; Wear; Barrier film; Chemical coatings; Failure prevention; Mechanical failure; Metal coatings; Plated coatings; *SP452.* **SP305-8.**
- Polymer configurations; Random walks; Boltzmann factors; Importance sampling; Monte Carlo; Non-selfintersecting walks; *J. 76B Nos. 3 and 4, 193-200 (1972).* **SP305-4.**
- Polymer crystallization; Crystallization; Kinetics; Multicomponent chains; 10340. **SP305-1.**
- Polymer crystallization; Polystyrene; Undercooling; Chain folds; Growth rate; Isotactic; Lamellar thickness; Nucleation theory; Polyethylene; 14364. **SP305-6.**
- Polymer crystallization; Zwanig-Lauritzen model; Critical indices; Critical phenomena; Phase transition; 11685. **SP305-2.**
- Polymer crystals; Chain-folding; Equilibrium statistical mechanics; Partition function; Phase transition; 10811. **SP305-1.**
- Polymer crystals; Polymer electron microscopy; Radiation damage to polymers; Electron collection efficiency; Electron microscope exposure meters; Logarithmic picoammeter; 13216. **SP305-5.**
- Polymer crystals; Polymer morphology; Polyoxymethylene crystals; Post irradiation heat treatment;  $\alpha$ -particle initiation; Chain folded crystals; Crystal growth mechanisms; Electron diffraction of polymers; Electron microscopy of polymers; 12030. **SP305-3.**
- Polymer crystals; Poly(oxymethylene); Surface layer; Adsorbed polymer; Deformation; Fold surface; Gold decoration; *J79A No. 5, 609-611 (1975).* **SP305-7.**
- Polymer crystals; Radiation damage; X-ray topography; Microstructure; Paraffin crystals; Plastic deformation; 15433. **SP305-7.**
- Polymer crystals; Regular folds; Adsorbed layer; Amorphous component; Fold surface; *J79A No. 5, 613-617 (1975).* **SP305-7.**
- Polymer decomposition; Polymer depolymerization; Polymer irradiation; Polymer pyrolysis; Diffusion effects; Free radicals; 11955. **SP305-3.**

- Polymer decomposition; Pyrolytic decomposition; Burning of polymers; Combustion; Ignition; 14596. **SP305-6.**
- Polymer degradation; Polymer pyrolysis; Transfer reactions; Free radicals; Polymer abnormalities; *SP357*, pp. 61-70. **SP305-4.**
- Polymer degradation; Polymethacrylic acid; Polypropylene oxide; Polyvinyl alcohol; Starch; Abstraction; Dextran; Dextrin; Free radicals; Hydroxyl; Polyacrylic; Polyethylene imine; Polyethylene oxide; *J.72A No. 1*, 49-73 (1968). **SP305-1.**
- Polymer degradation; Postirradiative decay; Aqueous solution; Cross-linking; Dextran; Dextran triacetate; Gamma irradiation; *J.71A1-433*, 25-31 (1967). **SP305.**
- Polymer degradation; Stability of polymers; Thermogravimetry; Energy of activation; Initial kinetic parameters; Non-isothermal kinetics; Polyethylene; 9451. **SP305.**
- Polymer depolymerization; Polymer irradiation; Polymer pyrolysis; Diffusion effects; Free radicals; Polymer decomposition; 11955. **SP305-3.**
- Polymer dimension; Random walk; Lattice; Nonreversing walk; *J.73B No. 1*, 45-46 (1969). **SP305-1.**
- Polymer electret; Poly(vinyl chloride); Pyroelectric; Electret; Piezoelectric; 13725. **SP305-5.**
- Polymer electron microscopy; Radiation damage to polymers; Electron collection efficiency; Electron microscope exposure meters; Logarithmic picoammeter; Polymer crystals; 13216. **SP305-5.**
- Polymer films; Polymerization; Polymer permeability; Plasma-formed polymers; *SP415*, pp. 1-12. **SP305-7.**
- Polymer formation; Ferromagnetic analysis; Lubricated rubbing contact; *SP452*, pp. 187-191 (Sept. 1976). **SP305-8.**
- Polymer fractionation; Chromatography; Gel permeation chromatography; 11291. **SP305-2.**
- Polymer grafting; Resins; Restorative materials; Sealants; Wear resistance; Adhesive materials; Composites; Dental materials; *NBSIR 75-766*. **SP305-7.**
- Polymer identification; Pyrolysis-gas chromatography of polymers; Pyrolytic techniques; Chromatographic analysis of degradation products; Polymer characterization; 11798. **SP305-3.**
- Polymer impregnated cement; Polymer impregnated mortar; Porosity; Scanning electron microscopy; Cement; Compressive strength; Flexural strength; Fracture mechanics; *BSS83*. **SP305-8.**
- Polymer impregnated mortar; Porosity; Scanning electron microscopy; Cement; Compressive strength; Flexural strength; Fracture mechanics; Polymer impregnated cement; *BSS83*. **SP305-8.**
- Polymer impregnated mortars; Slow crack growth; Acoustical emission; Fracture mechanics; Mortars; 16360. **SP305-8.**
- Polymer in gold; Porosity in gold; Solder plate; Tin-nickel alloy; Tin plate; Underplatings for gold; Wear of gold; Contact lubrication; Corrosion inhibitors; Electrical contacts; Gold plate; Palladium; *SP452*, pp. 64-71 (Sept. 1976). **SP305-8.**
- Polymer irradiation; Polymer pyrolysis; Diffusion effects; Free radicals; Polymer decomposition; Polymer depolymerization; 11955. **SP305-3.**
- Polymer morphology; Polyoxymethylene crystals; Post irradiation heat treatment;  $\alpha$ -particle initiation; Chain folded crystals; Crystal growth mechanisms; Electron diffraction of polymers; Electron microscopy of polymers; Polymer crystals; 12030. **SP305-3.**
- Polymer permeability; Plasma-formed polymers; Polymer films; Polymerization; *SP415*, pp. 1-12. **SP305-7.**
- Polymer physics; Bead/spring model; Dilute polymer solutions; Eigenvalue; Hydrodynamic interaction; Matrix algebra; Necklace model; *J. Res. 80B No. 2*, 273-284 (1976). **SP305-8.**
- Polymer precipitation; Scanning electron micrographs; Convection flows; Desalination; Interfacial turbulence; Membrane structures; 14032. **SP305-6.**
- Polymer processed mechanical and structural components; Structural and mechanical components; Components, structural; Dry powder painting; Mechanical and structural components; *SP452*, pp. 14-24 (Sept. 1976). **SP305-8.**
- Polymer pyrolysis; Diffusion effects; Free radicals; Polymer decomposition; Polymer depolymerization; Polymer irradiation; 11955. **SP305-3.**
- Polymer pyrolysis; Transfer reactions; Free radicals; Polymer abnormalities; Polymer degradation; *SP357*, pp. 61-70. **SP305-4.**
- Polymer reactions; Electron spin resonance; Fluorination; Free radicals; 13157. **SP305-5.**
- Polymer separation; Chromatography; Elution volume; Free radicals; Gel permeation chromatography; Hydrodynamic volume; Polymer; 12149. **SP305-3.**
- Polymer separation; Chromatography; Gel permeation chromatography; Particle separation; 11622. **SP305-2.**
- Polymer solids; Fibrous structure; Plastic deformation; 15400. **SP305-7.**
- Polymer solution; Radii of gyration; Theta point; Excluded volume; Monte Carlo; 14020. **SP305-6.**
- Polymer statistics; Statistical mechanics of polymers; 14400. **SP305-6.**
- Polymer structure; Sulfur dioxide; Density; Fluorocarbon copolymer; Morphology; Permeation; Permeation to polymers; 15509. **SP305-7.**
- Polymer substrates; Pyrolysis-gas chromatography; Textiles; Thermal analysis; Calorimetry; Cellulose; Flames; Flammability; Gases; Nylon; Oxidation reactions; Oxygen index; Phosphorus; Polyester; *SP411*, pp. 37-49. **SP305-6.**
- Polymer thermodynamics; Ehrenfest relation; Glassy state; Order-parameters; 16283. **SP305-8.**
- Polymer-gas reactions; Polystyrene, atactic, degradation, effect of  $\text{NO}_2$ ; Polystyrene, diffusion of  $\text{NO}_2$  and degradation; Polystyrene, isotactic, degradation, effect of  $\text{SO}_2$ ; Air pollutants; *SP357*, pp. 101-109. **SP305-4.**
- Polymeric anion;  $\Delta H$ ;  $\Delta S$ ; Equilibria; Equilibrium concentration of monomer;  $\alpha$ -trideuteromethyl- $\beta$ , $\beta$ -deuterostyrene; Lowering of steric repulsions; 9254. **SP305.**
- Polymeric bond failure; Scanning electron microscopy (SEM); X-ray photoelectron spectroscopy (ESCA); Adhesion failure; Cohesive failure; 15283. **SP305-7.**
- Polymeric film transducer; Sandwiched polymeric films; Vibration transducer; Dynamic pressure transducer; *U.S. Patent 3,970,862*. **SP305-8.**
- Polymeric films; Reverse osmosis; Salt-polymer interaction; Aromatic polyamide membranes; Desalination; Diffusion; Membranes; NMR; Permeation in polymers; 13438. **SP305-5.**
- Polymeric materials; Residual gas analysis; Test facilities; Vacuum; Chemical analysis; Contamination; Organic residues; Outgassing; *SP336*, pp. 1-24. **SP305-3.**
- Polymeric perfluorinated ethylene-propylene; Proton bombardment; Thermal control coatings; Degradation mechanisms; Electron bombardment; Electron degradation; *SP336*, pp. 359-382. **SP305-3.**
- Polymeric product; Stable free radical; Azulene; Periodic irradiation; 10345. **SP305-1.**
- Polymeric solids; Primary fracture front; Topography; Elasticity; Polymers; Fracture topography; Kinetics; 9487. **SP305.**
- Polymeric transducer; Polymers; Polyvinyl fluoride; Polyethylene fluoride; Stress gages; Transducers; Piezoelectricity; 16141. **SP305-8.**
- Polymer-impregnated concrete; Sulfur-impregnated concrete; Concrete; Concrete-polymer systems; Polymers; 14400. **SP305-8.**

- polymerization; Accelerators; Amines; Dental materials; Initiators; Peroxides; 13669. **SP305-5.**
- polymerization; Accelerators; Color formation; Discoloration; Methacrylate; N,N-dimethyl-3,5-dimethylaniline; 10261. **SP305-1.**
- polymerization; Polymer permeability; Plasma-formed polymers; Polymer films; *SP415*, pp. 1-12. **SP305-7.**
- polymerization; Polyperfluorostyrene; High pressure; Perfluorostyrene; 13061. **SP305-5.**
- polymerization; Poly-p-oxypolyfluorobenzylene; Pyrolysis; 2,3,5,6-tetrafluoro-4-trifluoromethylphenol; 1-*t*-butoxy-2,3,5,6-tetrafluoro-4-trifluoromethylbenzene; Perfluoro-*p*-quinonemethide; *J71A1-434*, 33-41 (1967). **SP305.**
- polymerization; Pressure; Poly-5,5,4,4,3,3-heptafluoropentene-1; Poly-4,4,4,3,3-pentafluorobutene-1; Poly-3,3,3-trifluoropropene; Gamma radiation; 9226. **SP305.**
- polymerization; Pressure; Radiation-induced; Tetrafluoroethylene; 2,3,3,3-tetrafluoropropene; 12384. **SP305-4.**
- polymerization; Pressure; 3,3,4,4,5,5,5-heptafluoropentene-1; Irradiation; 12089. **SP305-3.**
- polymerization; Pressure radiation; Reactivity ratios; Tetrafluoroethylene; Copolymerization; Pentafluorostyrene; 15281. **SP305-7.**
- polymerization; Purity; Synthesis; Telomerization; Cyclic intermolecular mechanism; Diene polymerization; Fluorodienes; Intermediates; *J75A No. 1*, 41-56 (1971). **SP305-3.**
- polymerization; Pyrolysis; Thermal decomposition; Thermal volatilization; 1,2-dihydronaphthalene; Degradation; 9218. **SP305.**
- polymerization; Radiation; Tetrafluoroethylene; Tetrafluoropropene; Copolymerization; High pressure; 13968. **SP305-6.**
- polymerization; Radiolysis; Ethylene; Free radical reactions; Ion-molecule reactions; Photolysis; *J75A No. 3*, 141-146 (1971). **SP305-3.**
- polymerization; Radiolysis; Ion-molecule reactions; Isobutene; Photoionization; 13002. **SP305-4.**
- polymerization; Resins; Synthesis; Accelerators; Amines; Color-stable composites; Methacrylates; 12302. **SP305-3.**
- polymerization; Stabilizers; Toxicity; Antioxidants; Biomaterials; Comonomers; Inhibitors; 13303. **SP305-5.**
- polymerization; Stabilizers; Toxicity; Antioxidants; Biomaterials; Comonomers; Inhibitors; 12915. **SP305-4.**
- polymerizations; Fluorine-containing monomers; Fluorodienes; Fluoroolefins; Fluoro monomers; Fluoropropylenes; Fluorovinyl; Free radical; Gamma rays; High pressures; Ionic catalysts; Monomers; Perfluorostyrene; Phenyl ethers; 10118. **SP305-1.**
- polymerized; Pressure; 3,5,6-trichloro-octafluorohexanoic; Dechlorination; Gamma ray initiation; Pentadiene; 9706. **SP305-1.**
- polymerizing material; Propene; Radiation-induced polymerization; Tetrafluoroethylene; Tetrafluoropropene; 14225. **SP305-6.**
- polymers; Adsorption; Configurations; Four-choice cubic lattice; Monte Carlo; 10257. **SP305-1.**
- polymers; Bulk modulus; Grüneisen constant; Infrared; Lattice vibrations; Polyethylene; 13739. **SP305-5.**
- polymers; Dielectric properties of certain polymers; Humidity change; Polycarbonate; Polyethylene; Polystyrene; Properties of certain polymers; 10057. **SP305-1.**
- polymers; Polymer-impregnated concrete; Sulfur-impregnated concrete; Concrete; Concrete-polymer systems; 16349. **SP305-8.**
- polymers; Polypeptides; Protein structure; Relaxation times; C-13 magnetic resonance; Collagen; 15330. **SP305-7.**
- Polymers; Polystyrene; Radiotracer measurements; Rates of adsorption; Surfaces; Adsorption; Adsorption on mercury; Desorption; 15853. **SP305-8.**
- Polymers; Polystyrene degradation; Pyrolysis; Thermolysis; Anionic polystyrene; Molecular weight distributions; Molecular weights; Thermal polystyrene; *J77A No. 1*, 157-170 (1973). **SP305-5.**
- Polymers; Polystyrene degradation; Pyrolysis; Anionic polystyrene; Molecular weight distributions; 14565. **SP305-6.**
- Polymers; Polyvinyl fluoride; Polyvinylidene fluoride; Stress gages; Transducers; Piezoelectric; Polymeric transducer; 16141. **SP305-8.**
- Polymers; Polyvinylchloride; Polyvinylfluoride; Polyvinylidenefluoride; Electrets; Piezoelectricity; Polarization; *NBSIR 75-787*. **SP305-7.**
- Polymers; Polyvinylchloride films; G modulus; Piezoelectricity; 12093. **SP305-3.**
- Polymers; Polyvinylfluoride; Pyroelectricity; Infrared; Piezoelectricity; 12352. **SP305-3.**
- Polymers; Polyvinylidene fluoride; Pyroelectric; Radiometer; Transducers; Electrets; Hydrophobic; Piezoelectric; *NBSIR 75-760*. **SP305-7.**
- Polymers; Pressure; Volume; Anderson-Grüneisen parameter; Bulk modulus; Compressibility; Grüneisen constant; Pair potential; Paraffins; Polyethylene; 11677. **SP305-2.**
- Polymers; Primers; Sealants; Adhesion; Bonding; Composites; Coupling agents; Monomers; 15374. **SP305-7.**
- Polymers; Properties; Resins; Selection; Substrates; Surface preparation; Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant; Lacquer; Latex; Multicolor; Organic coatings; *BSS7*. **SP305-1.**
- Polymers; Properties; Rubbers; Styrene-butadiene rubber; Butyl rubber; Constants; Natural rubber; Neoprene; Physical constants; 10136. **SP305-1.**
- Polymers; Properties; Rubbers; Styrene-butadiene rubbers; Butyl rubber; Constants; Natural rubber; Neoprene; Physical constants; 14858. **SP305-7.**
- Polymers; Proteins; Solid standards; Antibodies; Antigens; Biological polymers; Immunochemical analysis; Light scattering; *J. Res. 80A No. 4*, 605-608 (1976). **SP305-8.**
- Polymers; Pyroelectric detectors; Pyroelectricity; Self-calibrated detectors; Detectors; Gold-blacks; Optical radiation detectors; Optics; 14520. **SP305-6.**
- Polymers; Pyroelectrics; Radiometry; Infrared detectors; 16471. **SP305-8.**
- Polymers; Pyrolysis; Burning; Hydrocarbons; Organic materials; Oxidation; *SP357*. **SP305-4.**
- Polymers; Pyrolysis; Poly  $\alpha$ -methylstyrene, zip-length; 14632. **SP305-6.**
- Polymers; Pyrolysis; Stripping; Chain scission; Crosslinking; *SP357*, pp. 47-60. **SP305-4.**
- Polymers; Pyrolysis; Thermal decomposition; Thermogravimetry; Thermolysis; Stability of polymers; Degradation; Nonisothermal kinetics; *J70A6-422*, 487-523 (1966). **SP305.**
- Polymers; Pyrolytic graphite; Transition metal borides; Copper; Creep; Crystal growth; Diffusion; Enthalpy; Evaporation; Fracture; Glass band structure; High temperature materials; Mass transport; Materials properties; Mechanical relaxation; Oxides; *TN494*. **SP305-1.**
- Polymers; Quantitative comparisons; Vinyl and vinylidene; Fluoride polymers; Gamma irradiation; Irradiation, gamma; 10119. **SP305-1.**
- Polymers; Radiation; Radiometry; Sun; Weathering; Xenon arc; Carbon arc; Degradation; Irradiance; Photodegradation; Plastics; 10472. **SP305-1.**
- Polymers; Radiation chemistry; Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; Photochemistry; *COM-71-01103*. **SP305-4.**

- Polymers; Radiation chemistry; Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; Photochemistry; *COM-72-10621. SP305-4.*
- Polymers; Radiation chemistry; Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; Photochemistry; *COM-72-10266. SP305-4.*
- Polymers; Random walk; Relaxation; Stochastic process; Chain dynamics; *11786. SP305-2.*
- Polymers; Random walks; Thermodynamics; Excluded volume; Lattice; Monte Carlo; *11218. SP305-2.*
- Polymers; Resilience; Dynamic properties; Low temperatures; *11435. SP305-2.*
- Polymers; Resin; Silane; Tantalum; Zirconium; Aluminum; Composites; Coupling agents gold; Mercaptan; Methacrylates; *13620. SP305-5.*
- Polymers; Rotation; Spectroscopy; Crystal dynamics; Crystallography; Crystal structure; Inorganic; Molecular solid; Organic; *10417. SP305-1.*
- Polymers; Rubber; Stark rubber; Chain folding; Contractility; Crystallization; Dilatometry; Heat engine; Melting; *10832. SP305-1.*
- Polymers; Rubber; Stark rubber; Chain folding; Contractility; Crystallization; Dilatometry; Heat engine; Melting; *10157. SP305-1.*
- Polymers; Rubbers, viscoelasticity; Anisotropy; Chemorheology; Degradation; Elasticity; Finite deformation; Incompressible materials; Permanent set; *16339. SP305-8.*
- Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Fracture; Glass; High temperature materials; Inhomogeneities in glass; Laser damage; Laser glass; *TN514. SP305-2.*
- Polymers; Ruby; Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Glass; High temperature materials; Inhomogeneities in glass; Laser damage; Laser glass; Lasers; *TN531. SP305-2.*
- Polymers; Shock force; Space simulation; Testing; Volatile products; Absorption; Condensation; Contamination control; Evaluation; Far infrared; Fluid dynamic force; Microorganisms; Optical properties; Planetary quarantine; *SP336. pp. 51-77. SP305-3.*
- Polymers; Smoke; Venting; Buildings; Cellulosics; Fires; *13677. SP305-5.*
- Polymers; Specifications standards; American Dental Association; Casting; Ceramic materials; Certified products; Dental; Instruments; Materials; Metals; *9978. SP305-1.*
- Polymers; Spectroscopy; Bibliography; Data; Infrared; Inorganic; Minerals; Ores; Organic; *SP428. Parts 1, 2, and 3. SP305-8.*
- Polymers; Surface free energy; Chain folding; Crystal growth; Crystallization kinetics; Homogeneous nucleation; Interfacial energy; Nucleation; Polychlorotrifluoroethylene; Polyethylene; *9454. SP305.*
- Polymers; TGA; Combustion; DTA;  $\gamma$ -irradiation; LOI; *14047. SP305-6.*
- Polymers; Thermal properties; Compilation; Electrical properties; Mechanical properties; Plastics; *13444. SP305-5.*
- Polymers; Thermal properties; Compilation; Electrical properties; Mechanical properties; Plastics; *Monogr. 132. SP305-5.*
- Polymers; Vibration generation; Elastomers; Electrets; Electrically controlled damping; Electrostriction; Piezoelectricity; *10915. SP305-2.*
- Polymers; Wear; Adhesion; Coatings; Friction; Metal; *SP452. pp. 3-13 (Sept. 1976). SP305-8.*
- Polymers, analysis of test data in statistical analysis; Test data, analysis; Test methods, comparison of; Homogeneity, tests of; Data processing; Design of experiments; Performance tests; *9921. SP305-1.*
- Polymers, dental; Torsion pendulum; Activation energy; Dental materials; Glass, sodium phosphate; Internal friction; Mechanical properties; *SP354. pp. 145-160. SP305-4.*
- Poly(meth)acrylic acid; Polypropylene oxide; Polyvinyl alcohol; Starch; Abstraction; Dextran; Dextrin; Free radicals; Hydroxyl; Polyacrylic; Polyethylene imine; Polyethylene oxide; Polymer degradation; *J.72A No. 1, 49-73 (1968). SP305-1.*
- Poly(methyl methacrylate); Polyvinyl chloride; Radiation processing; Radiochromic dyes; Absorbed dose rate; Cellulose triacetate; Dosimetry; Dyed cellophane; Dyed plastic; Electron beams; Gamma radiation; Plastic films; *1521. SP305-7.*
- Poly(methyl methacrylate); Specification; Surgical bone cement; Biomaterial; Bone cement; Orthopaedic materials; *15191. SP305-7.*
- Poly(methylmethacrylate, self-curing; Surgical bone cement; Total hip replacement, cement; Acrylic resin; Cement; Medical materials; Orthopedic materials; *15164. SP305-7.*
- Poly(molecular frameworks; Rare earth optical spectra; Rare earth oxide; Refractory materials; Thin films; 4<sup>th</sup> configurations; Complex ions; Coordination polyhedra; Nuclear stoichiometry; *SP364. pp. 367-383. SP305-4.*
- Poly(morph; Single crystal; X-ray diffraction; Cesium; Gallium; High-pressure; *12187. SP305-3.*
- Poly(morphic phase transition; Transition pressure; Volume change; Bismuth; Free piston gage; High pressure; *971. SP305-1.*
- Poly(morphism; Anthracene; Benzene; High-pressure; Naphthalene; *11800. SP305-3.*
- Poly(morphism; Carbon tetrachloride; Crystal structure; Diamond-anvil cell; High pressure; *14250. SP305-6.*
- Poly(morphism; Critically evaluated data; Crystal structure; Elements; High pressure; Melting curves; Phase diagram; *Phys. Chem. Ref. Data 3, No. 3, 781-824 (1974). SP305-4.*
- Poly(morphism; Crystal chemistry; Kinetics; Lithium arsenate; Lithium phosphates; Lithium vanadate; Phase transformation; *SP364. pp. 457-469. SP305-4.*
- Poly(morphism; Diamond anvil pressure cell; High pressure; Polyethylene; Polymer; *14688. SP305-6.*
- Poly(morphism; Raman spectroscopy; Chain-folded polyethylene crystals; Longitudinal acoustical modes; *n*-paraffins; *1418. SP305-6.*
- Poly(morphism; Rare-earth silicate; Solid solubility; X-ray powder analysis; Crystal chemistry; Gel-preparation; Lithium organic synthesis; Mineral identification; *10998. SP305-2.*
- Poly(morphism; Single-crystal; X-ray diffraction; High-pressure; *11180. SP305-2.*
- Poly(morphism; Sulfur; Diamond-anvil cell; High pressure; Melting curve; *14242. SP305-6.*
- Poly(morphism; Tantalum pentoxide; Titanium dioxide; Phase equilibria; *J.72A No. 2, 175-186 (1968). SP305-1.*
- Poly(morphism; Tetragonal form; BaB<sub>2</sub>O<sub>6</sub>; Heats of transformation; Orthorhombic form; *J.73A No. 6, 615-620 (1973). SP305-1.*
- Poly(morphism; X-ray diffraction; Chlorides, crystal structure; Double chlorides; Lattice constants; Melting point; Perovskites; *J.73A No. 6, 621-626 (1969). SP305-1.*
- Poly(morphism; Zirconia; ZrO<sub>2</sub> · 12Nb<sub>2</sub>O<sub>5</sub>; Electron microscopy; Lattice images; Niobia; *12059. SP305-3.*
- Poly(morphism; Zirconium-niobium oxide; Crystal structure; Intergrowth; Lattice image; *SP364. pp. 165-182. SP305-4.*
- Poly(morphism AgNO<sub>3</sub>; Thermal expansion AgNO<sub>3</sub>; Unit cell dimensions AgNO<sub>3</sub>; AgNO<sub>3</sub>; Density AgNO<sub>3</sub>; *11044. SP305-2.*
- Poly(morphism AgNO<sub>3</sub>; Thermal expansion AgNO<sub>3</sub>; Unit cell dimensions AgNO<sub>3</sub>; AgNO<sub>3</sub>; Density AgNO<sub>3</sub>; *11750. SP305-2.*
- Poly(morphism Cs<sub>2</sub>SO<sub>4</sub>-K<sub>2</sub>SO<sub>4</sub> solid solutions; Solid solutions; Cs<sub>2</sub>SO<sub>4</sub>; Density K<sub>2</sub>SO<sub>4</sub>-Cs<sub>2</sub>SO<sub>4</sub> solid solutions; Equilibrium diagram Cs<sub>2</sub>SO<sub>4</sub>-K<sub>2</sub>SO<sub>4</sub>; *13973. SP305-6.*



- polymorphs; DSC; DTA; High temperature x-ray;  $K_2CO_3$ ; Phase transformation; *J3524*. SP305-5.
- poly(*n*-alkyl isocyanates); Radii of gyration; Second virial coefficients; Configuration; Conformation; Kratky-Porod model; Light scattering; Osmotic pressure; *J2355*. SP305-3.
- poly(*n*-butyl isocyanate); Poly(*n*-octyl isocyanate); Rodlike; Intrinsic viscosity; *J3919*. SP305-6.
- poly(*n*-butyl isocyanate); Rodlike molecules; Dielectric constant; Dielectric relaxation time; Dipole moment; Molecular relaxation in dilute solution; *10859*. SP305-1.
- poly(*n*-butylisocyanate); Rodlike molecule; Single relaxation time; Dielectric constant; Dielectric relaxation time; Dipole moment; Distribution of molecular weights; Distribution of relaxation times; *11678*. SP305-2.
- poly(*n*-octyl isocyanate); Rodlike; Intrinsic viscosity; Poly(*n*-butyl isocyanate); *J3919*. SP305-6.
- polynomial; Polynomial real roots; Roots; Sturm theorem; Budan theorem; Exact computation; Integer arithmetic; Modular arithmetic; *J78B No. 1, 39-43 (1974)*. SP305-6.
- polynomial; Relative error; Round-off; Evaluation; Newton form; *J71B1-191, 11-17 (1967)*. SP305.
- polynomial approximation; Automorphic functions; Poincaré series; *15366*. SP305-7.
- polynomial approximation; Radiation transport; Truncation error; Gamma ray penetration; Moments method; Point gamma source in water; *13188*. SP305-5.
- polynomial approximations; Biorthogonal functions; Gamma-ray penetration theory; Neutron penetration theory; *J71B4-244, 197-211 (1967)*. SP305.
- polynomial real roots; Roots; Sturm theorem; Budan theorem; Exact computation; Integer arithmetic; Modular arithmetic; Polynomial; *J78B No. 1, 39-43 (1974)*. SP305-6.
- polynomial representation; Sedimentation equilibrium; Molecular weight average; Molecular weight distributions; Moments; Polydispersity; *J71A1-431, 13-17 (1967)*. SP305.
- polynomial representations; Radiation penetration; Biorthogonal function; Gamma-ray transport; Moment methods; Neutron transport; *J. 76B Nos. 3 and 4, 91-108 (1972)*. SP305-4.
- polynomial search; Pseudo-random numbers; Scatter storage; Collision resolution; Hash tables; *15669*. SP305-7.
- polynomial truncation errors; Sievert function; Biorthogonal polynomials; Gamma-ray transport; Moment method; Neutron transport; *J75B Nos. 1 and 2, 1-16 (1971)*. SP305-3.
- polynomials; Bernstein polynomials; Bounds; *J74B No. 1, 47-54 (1970)*. SP305-2.
- polynomials; Binomial coefficients; Bounds; *J71B1-190, 9-10 (1967)*. SP305.
- polynomials; Direct sums; Formal power series; Jordan canonical form; Permutation congruence; *15965*. SP305-8.
- polynomials; Functions; Variables; Hermite-Fejer; Bernstein; Chebyshev; Approximations; Convergence; Multidimensional; *J70B3-182, 211-218 (1966)*. SP305.
- polynomials; Probability density function; Quadrature; Stable distribution; Sums of independent random variables; Tables; Truncation; Accuracy; Approximations; Asymptotic expansion; Cauchy distribution; *J77B Nos. 3 and 4, 143-198 (1973)*. SP305-5.
- polynucleotide calorimetry; Purity assay; Reaction coupling; Thermodynamics; Warfarin; Adenosinetriphosphate-thermodynamics; Chemical bond energy; Coiled helix thermopiles; Drug receptor complexing; Entropy; Enzyme detection + analysis; *13730*. SP305-5.
- polyolefins; Polypropylene; Alkoxy radicals; Carbonyl compounds; Chain initiation; Chain propagation; Chain termination; Kinetics; Oxidation; Peroxy radicals; *SP357, pp. 95-98*. SP305-4.
- Polyoxymethylene; Solution grown; Chain-folded; Crystal; Curved; Electron microscopy; Optical microscopy; Polymer; *J78A No. 2, 95-127 (1974)*. SP305-6.
- Poly(oxyethylene); Surface layer; Adsorbed polymer; Deformation; Fold surface; Gold decoration; Polymer crystals; *J79A No. 5, 609-611 (1975)*. SP305-7.
- Polyoxymethylene crystals; Post irradiation heat treatment;  $\alpha$ -particle initiation; Chain folded crystals; Crystal growth mechanisms; Electron diffraction of polymers; Electron microscopy of polymers; Polymer crystals; Polymer morphology; *12030*. SP305-3.
- Polyoxymethylene crystals; Radiation damage; Solid state polymerization; Trioxane; Electret domains; *13876*. SP305-6.
- Polyoxymethylene crystals; Solid state polymerization; Trioxane crystals; Dielectric loss; Dielectric relaxation; Molecular motions; Nuclear magnetic resonance absorption; *15359*. SP305-7.
- Polyoxymethylene crystals; Trioxane crystals; *12578*. SP305-4.
- Polypeptides; Carbon-13; Nuclear magnetic resonance; Poly-L-proline; *14386*. SP305-6.
- Polypeptides; Protein structure; Relaxation times; C-13 magnetic resonance; Collagen; Polymers; *15330*. SP305-7.
- Polypeptides; Raman spectroscopy; Far infrared spectroscopy; Interchain hydrogen bonding; Low frequency vibrations; *13948*. SP305-6.
- Polypeptides; Relaxation times; Biopolymers; Carbon-13 magnetic resonance; *14475*. SP305-6.
- Polypeptides; Relaxation times; Rotational diffusion;  $^{13}C$  magnetic resonance; Collagen; Conformation; Correlation times; Cyanogen bromide peptides; *16211*. SP305-8.
- Polypeptides; Rodlike molecules; Dielectric constant; Dielectric relaxation time; Dipole moment; Kratky-Porod worm-like model; Molecular relaxation in dilute solution; Poly(butyl-isocyanate); Polymer chain configuration; *11262*. SP305-2.
- Polypeptides; Vibrational states; Heat capacity; Lattice dynamics; Low temperature, polyglycine; *16304*. SP305-8.
- Polyperfluorophenylene ethers; Polyperfluorophenylenes; Sulfides; Vinyl ethers; Fluorinated styrenes; Fluoroaryl polymers; Para and meta linked polymers; Pendant pentafluorophenyl ring; *9999*. SP305-1.
- Polyperfluorophenylenes; Sulfides; Vinyl ethers; Fluorinated styrenes; Fluoroaryl polymers; Para and meta linked polymers; Pendant pentafluorophenyl ring; Polyperfluorophenylene ethers; *9999*. SP305-1.
- Polyperfluorostyrene; High pressure; Perfluorostyrene; Polymerization; *13061*. SP305-5.
- Poly-*p*-oxyperfluorobenzylene; Pyrolysis; 2,3,5,6-tetrafluoro-4-trifluoromethylphenol; 1-*t*-butoxy-2,3,5,6-tetrafluoro-4-trifluoromethylbenzene; Perfluoro-*p*-quinonemethide; Polymerization; *J71A1-434, 33-41 (1967)*. SP305.
- Polypropylene; Alkoxy radicals; Carbonyl compounds; Chain initiation; Chain propagation; Chain termination; Kinetics; Oxidation; Peroxy radicals; Polyolefins; *SP357, pp. 95-98*. SP305-4.
- Polypropylene; Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; Mechanism; Organic compound; Oxidative degradation; Peroxy radical isomerization; Poly(ethylene oxide); Polymer; *SP357, pp. 85-92*. SP305-4.
- Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; Mechanism; Organic compound; Oxidative degradation; Peroxy radical isomerization; Poly(ethylene oxide); Polymer; Polypropylene; *SP357, pp. 85-92*. SP305-4.
- Polypropylene oxide; Polyvinyl alcohol; Starch; Abstraction; Dextran; Dextrin; Free radicals; Hydroxyl; Polycaric; Polyethylene imine; Polyethylene oxide; Polymer degradation; Polymethacrylic acid; *J72A No. 1, 49-73 (1968)*. SP305-1.

- Polypromelitimide; Relative creep; Thermoelastic; Transverse; Longitudinal; Polyethylene terephthalate; 12165. SP305-3.
- Polysilanes; Silicon; Sub-halides; Boron; Fluorine; NMR; 9229. SP305.
- Polystyrene; Adsorption; Adsorption of polymers; Conformation of adsorbed polymers; Ellipsometry; Mercury; Polymer adsorption; 10156. SP305-1.
- Polystyrene; Al; Be; Cross-sections; Electrons; Inelastic scattering; 10096. SP305-1.
- Polystyrene; Differential refractive index; Differential refractometer; Lorentz-Lorenz; Molecular weight; *n*-alkanes; Polyethylene; 12428. SP305-4.
- Polystyrene; Poly(tetrafluoroethylene); Time; Reference specimens; Dielectric constant; Dissipation factor; Frequency; Fluorinated ethylene-propylene; Humidity; Polycarbonate; Polyethylene; J.71C2-251, 119-125 (1967). SP305.
- Polystyrene; Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; Mechanism; Organic compound; Oxidative degradation; Peroxy radical isomerization; Poly(ethylene oxide); Polymer; Polypropylene; Poly(propylene oxide); SP357, pp. 85-92. SP305-4.
- Polystyrene; Polyvinylbutyl; Polyvinylchloride; Tinfoil electrodes; Anomalous d-c conductance; Conductive rubber electrodes; Epoxy; Polycarbonate; 10056. SP305-1.
- Polystyrene; Properties of certain polymers; Polymers; Dielectric properties of certain polymers; Humidity change; Polycarbonate; Polyethylene; 10057. SP305-1.
- Polystyrene; Pyrolysis; Theory of free radical degradation; Computer calculation; Intermolecular transfer; Molecular weights; 10120. SP305-1.
- Polystyrene; Radiochromic dye; Charge deposition; Depth dose; Dielectrics; Dose distribution; Dosimetry; Dye film dosimeters; Electron beams; 12719. SP305-4.
- Polystyrene; Radiochromic dyes; 10-MeV electrons; Aluminum; Carbon; Depth dose; Depth-dose distributions; Dye-film dosimeters; Polyethylene; NBSIR 73-413. SP305-6.
- Polystyrene; Radiotracer measurements; Rates of adsorption; Surfaces; Adsorption; Adsorption on mercury; Desorption; Polymers; 15853. SP305-8.
- Polystyrene; Reflectance electron energy loss; Vacuum ultraviolet; Optical constants; 10784. SP305-1.
- Polystyrene; Refractive index; Sapphire; Cubic-spline interpolation; Cyclohexane; Interpolation; 13635. SP305-5.
- Polystyrene; Relaxation methods; Thermogravimetry; Weight-loss; Degradation; Kinetics; Oxidation; Parameter jump method; 15858. SP305-8.
- Polystyrene; Segment;  $\Theta$  solvent; Adsorption; Chain; Concentration; Interface; Isotherm; Polymer; 9786. SP305-1.
- Polystyrene; Solvent effects; Ultraviolet absorption; Carbon tetrachloride; Cyclohexane; Ethylbenzene; Extinction coefficient; Polymer; J.71A2-449, 169-175 (1967). SP305.
- Polystyrene; Superposition; BKZ theory; Concentrated solutions; Nonlinear behavior; Polyisobutylene; 14566. SP305-6.
- Polystyrene; Undercooling; Chain folds; Growth rate; Isotactic; Lamellar thickness; Nucleation theory; Polyethylene; Polymer crystallization; 14364. SP305-6.
- Polystyrene; Viscoelasticity; Zimm theory; Bead-spring model; Chain molecules; Chain stiffness; Deoxyribonucleic acid; Dilute solutions; Hydrodynamic interaction; 15114. SP305-7.
- Polystyrene; atactic, degradation, effect of NO<sub>2</sub>; Polystyrene, diffusion of NO<sub>2</sub> and degradation; Polystyrene, isotactic, degradation, effect of SO<sub>2</sub>; Air pollutants; Butylrubber, degradation, effect of NO<sub>2</sub>; SP357, pp. 101-109. SP305-4.
- Polystyrene degradation; Pyrolysis; Thermolysis; Anionic polystyrene; Molecular weight distributions; Molecular weights; Thermal polystyrene; Polymers; J.77A No. 1, 157-170 (1973). SP305-5.
- Polystyrene degradation; Pyrolysis; Anionic polystyrene; Molecular weight distributions; Polymers; 14565. SP305-6.
- Polystyrene, diffusion of NO<sub>2</sub> and degradation; Polystyrene, isotactic, degradation, effect of SO<sub>2</sub>; Air pollutants; Butylrubber, degradation, effect of NO<sub>2</sub>; SP357, pp. 101-109. SP305-4.
- Polystyrene, isotactic, degradation, effect of SO<sub>2</sub>; Air pollutants; Butylrubber, degradation, effect of NO<sub>2</sub>; Degradative effect of morphology; Effect on polymers of NO<sub>2</sub>, SO<sub>2</sub>, and UV light; SP357, pp. 101-109. SP305-4.
- Polystyrene plastic sheet; Sheet, plastic; Impact resistance; Plastic sheet; Oriented sheet; Plastic sheet; PS31-70. SP303.
- Polystyrene solutions; Standard sample; Streaming birefringence; Molecular weight distribution; Normal stress; 1412. SP305-6.
- Polystyrene standard; Standard Reference Material 70 Characterized polymers; Narrow molecular weight polystyrene; SP260-33. SP305-4.
- Polystyrene standard; Standard reference materials; Standard reference polymers; Gel permeation chromatograph calibration; Limiting viscosity number; Molecular weight; Molecular weight distribution; Polyethylene standard; 14036. SP305-6.
- Poly(tetrafluoroethylene); Time; Reference specimens; Dielectric constant; Dissipation factor; Frequency; Fluorinated ethylene-propylene; Humidity; Polycarbonate; Polyethylene; J.71C2-251, 119-125 (1967). SP305.
- Polytetrafluoroethylene; Analysis of methane-hydrogen mixtures; Beryllium fluoride; Beryllium metal; Combustion calorimetry; Fluorine; Heat of formation; Molecular-sieve analysis; J.73A No. 3, 281-297 (1969). SP305-1.
- Polytetrafluoroethylene; Bomb calorimeter; Boron carbide; Boron trifluoride; Carbon tetrafluoride; Heat of combustion; Heat of formation; J.72A No. 2, 133-139 (1968). SP305-1.
- Polytetrafluoroethylene; Resin sintered coatings; TFE-fluorocarbon; Coatings, dry film; Dry film lubrication; CS274-4. SP305.
- Polytetrafluoroethylene; Resin skived tape; Skived tape; TFE-fluorocarbon; Electrical tape, plastic; Plastic tape; PS3-4. SP305.
- Polytetrafluoroethylene; Transitions; Triple point; Dilatometer; Enthalpy; Entropy; Helical molecule; Low pressure; Phosphor; J.72A No. 5, 467-470 (1968). SP305-1.
- Polytetrafluoroethylene plastic lined pipe; PTFE lined pipe; Steel pipe and fittings, plastic lined; Pipe and fittings, steel plastic lined; Plastic lined steel pipe; PS33-70. SP305-3.
- Polytetrafluoroethylene (Teflon); Refractory compounds; Aluminum borides; Boron; Boron carbide; Carbon; Fluorine; Heat of combustion; 9270. SP305.
- Polytetrahydrofuran; Room temperature; 1,4-dioxane; Kinetics; Mechanism; Organic compound; Oxidative degradation; Peroxy radical isomerization; Poly(ethylene oxide); Polypropylene; Poly(propylene oxide); Polystyrene; SP357, pp. 85-92. SP305-4.
- Polyurethane; Critical surface tension; Dental adhesion improvement through liners, coupling agents, fillers, and surfactant treatment; Dental adhesives to include acrylates, cyanoacrylates, epoxy resins and polyurethanes; Dental materials; PS34, pp. 113-123. SP305-4.
- Polyurethane; Pyrolysis; Aircraft fires; Fire hazard; Flash point; NBSIR 75-757. SP305-8.
- Polyurethane; Resilience; Thermal properties; Adhesive; Urethane; temperature; Mechanical properties; Polymer; 11515. SP305-2.
- Polyurethane foam; Cryogenic insulation; Insulation; Urethane; Microspheres; 13418. SP305-5.
- Polyurethane foam; Fracture; Fracture toughness; 1412. SP305-6.
- Polyurethane foam; Sandwich construction; Wall system; Urethane; accelerated aging; Compression; Environmental conditions; Flexure; Housing system; Operation BREAKTHROUGH; 13386. SP305-5.

- Polyurethane foam; Toxic gases; Fire endurance; Fire test; Housing systems; Interdwelling wall; Load failure; Modular construction; Operation BREAKTHROUGH; 13411. SP305-5.
- Polyurethanes; Resins; Restorative; Adhesive; Cements; Composites; Cyanoacrylates; Dental; Methacrylate; Polyacrylate; 12805. SP305-4.
- Polyvinyl acetate; Copolymer; Intrinsic viscosity; Latex; Mark-Houwink; Molecular weight; Polymer; 9581. SP305-1.
- Poly(vinyl acetate); Pressure; Thermal; Volume; Compressibility; Configuration; Entropy; Heat capacity; Holes; Polymer; 16077. SP305-8.
- Poly(vinyl acetate); PVT; Relaxation; Density; Dilatometer; Entropy; Glass transition; Glass; Liquid; Polymer; J.78A No. 3, 331-353 (1974). SP305-6.
- Poly(vinyl acetate); PVT; Relaxation; Viscosity; Density; Entropy; Free volume; Glasses; Glass transition; Liquid; Polymer; 14777. SP305-7.
- Poly(vinyl acetate); PVT; Thermodynamic; Liquid; Configurational; Glass; Glass transition; Hole theory; Polymer; 14850. SP305-7.
- Polyvinyl acetate; Separation; Styrene-butadiene; Vinyl-acrylic; Acrylic; Identification; Infrared spectroscopy; Latex paints; 10415. SP305-1.
- Polyvinyl acetate; Styrene-acrylate; Vinyl-acrylic; Vinyl acetate-dibutyl maleate; Vinyl acetate-ethylene; Vinyl acetate-ethyl acrylate; Vinyl acetate-2-ethyl-hexyl acrylate; Vinyl chloride-acrylate; Acrylic; Alkyd modified latex paints; Deep-tone latex paints; 13816. SP305-6.
- Polyvinyl alcohol; Polyethylene oxide; Tetrahydrofuran; Hydroxyl radicals; Electron spin resonance; Free radicals; 9175. SP305.
- Polyvinyl alcohol; Starch; Abstraction; Dextran; Dextrin; Free radicals; Hydroxyl; Polyacrylic; Polyethylene imine; Polyethylene oxide; Polymer degradation; Polymethacrylic acid; Polypropylene oxide; J.72A No. 1, 49-73 (1968). SP305-1.
- Polyvinyl chloride; Aerosol; Chloride selective electrode; Decomposition product; HCl gas analyzer; 11043. SP305-2.
- Poly(vinyl chloride); Profile; Profile extrusions; PVC profile extrusions; Rigid PVC; Extrusions; PS26-70. SP305-2.
- Polyvinyl chloride; PVC; Residual stress; Thermoplastic piping; ABS; Coefficient of expansion; CPVC; Glass transition temperature; Hardness; PB; Polybutene; NBSIR 74-629. SP305-7.
- Polyvinyl chloride; Pyroelectric; Dipoles; Electret; Glass; Piezoelectric; Polarization; 16277. SP305-8.
- Poly(vinyl chloride); Pyroelectric; Electret; Piezoelectric; Polymer electret; 13725. SP305-5.
- Polyvinyl chloride; Pyroelectric; Electret; Dipoles; Glass; Piezoelectric; Polarization; 15320. SP305-7.
- Poly(vinyl chloride); Pyrolysis; Smoke; Thermal decomposition; HCl; He-Ne laser; 13650. SP305-5.
- Polyvinyl chloride; Radiation processing; Radiochromic dyes; Absorbed dose rate; Cellulose triacetate; Dosimetry; Dyed cellophane; Dyed plastics; Electron beams; Gamma radiation; Plastic films; Polymethyl methacrylate; 15278. SP305-7.
- Poly(vinyl chloride); Rigid plastic; Ultraviolet absorbers; Color reactions; Opaque pigments; Photodegradation; 10137. SP305-1.
- Polyvinyl chloride; Servo-hydraulic system; Viscoelasticity; Yield point; Biaxial; Fatigue; Fracture; Laboratory automation; Mechanical testing; Plasticity; 16626. SP305-8.
- Polyvinyl chloride; Thermal mechanical analysis (TMA); Thermal properties; Thermogravimetric analysis (TGA); Thermoplastic pipe; Chlorinated polyvinyl chloride; Hardness; Internal stress; NBSIR 74-610. SP305-7.
- Polyvinyl chloride coatings; Steel reinforcing bars; Bridge decks; Chloride ions; Concrete; Corrosion; Deicing salts; Epoxy coatings; Organic coatings; BSS65. SP305-7.
- Poly(vinyl chloride) (PVC); Pressure; Pressure rating (PR); Schedule 40, 80, and 120 sizes; Dimensions; Hydrostatic design stress; Materials; Pipe; PS21-70. SP305-2.
- Poly(vinyl chloride) (PVC); Pressure; Pressure rating (PR); Standard dimension ratio (SDR); Threads; Class T; Dimensions; Hydrostatic design stress; Materials; Pipe; PS22-70. SP305-2.
- Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric coefficient; Pyroelectricity; Piezoelectricity; Poling; 13546. SP305-5.
- Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric; Detector; Infrared; Polymer; 14349. SP305-6.
- Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric effect; Relative spectral response; Ultraviolet detector; Heat detector; Optical radiation sensor; Poling; Polymer; 15183. SP305-7.
- Polyvinyl fluoride; Polyvinylidene fluoride; Stress gages; Transducers; Piezoelectric; Polymeric transducer; Polymers; 16141. SP305-8.
- Polyvinyl fluoride; Pyroelectric detectors; Reflectance; Directional-hemispherical; 14721. SP305-7.
- Polyvinylbutyl; Polyvinylchloride; Tinfoil electrodes; Anomalous d-c conductance; Conductive rubber electrodes; Epoxy; Polycarbonate; Polystyrene; 10056. SP305-1.
- Polyvinylchloride; Polyvinylfluoride; g moduli; Piezoelectricity; 12271. SP305-3.
- Polyvinylchloride; Polyvinylfluoride; Polyvinylidene fluoride; Electrets; Piezoelectricity; Polarization; Polymers; NBSIR 75-787. SP305-7.
- Polyvinylchloride; Recovery; Stress relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; Nonlinear behavior; Polyisobutylene; 10144. SP305-1.
- Polyvinylchloride; Tinfoil electrodes; Anomalous d-c conductance; Conductive rubber electrodes; Epoxy; Polycarbonate; Polystyrene; Polyvinylbutyl; 10056. SP305-1.
- Polyvinylchloride; Transducer; Underwater sound; Piezoelectricity; Piezoelectric modulus; Polymer; 12276. SP305-3.
- Polyvinylchloride coatings; Steel reinforcing bars; Bridge decks; Corrosion; Creep testing; Epoxy coatings; 13798. SP305-5.
- Polyvinylchloride films; G modulus; Piezoelectricity; Polymers; 12093. SP305-3.
- Polyvinylfluoride; g moduli; Piezoelectricity; Polyvinylchloride; 12271. SP305-3.
- Polyvinylfluoride; Polyvinylidene fluoride; Pyroelectrics; 14760. SP305-7.
- Polyvinylfluoride; Polyvinylidene fluoride; Electrets; Piezoelectricity; Polarization; Polymers; Polyvinylchloride; NBSIR 75-787. SP305-7.
- Polyvinylfluoride; Pyroelectric; Detector; Infrared; 12549. SP305-4.
- Polyvinylfluoride; Pyroelectricity; Infrared; Piezoelectricity; Polymers; 12352. SP305-3.
- Polyvinylfluoride; Pyroelectrics; Radiometers; IR detectors; 14531. SP305-6.
- Polyvinylidene fluoride; Pyroelectric coefficient; Pyroelectricity; Piezoelectricity; Poling; Polyvinyl fluoride; 13546. SP305-5.
- Polyvinylidene fluoride; Pyroelectric; Detector; Infrared; Polymer; Polyvinyl fluoride; 14349. SP305-6.
- Polyvinylidene fluoride; Pyroelectrics; Polyvinylfluoride; 14760. SP305-7.
- Polyvinylidene fluoride; Pyroelectric effect; Relative spectral response; Ultraviolet detector; Heat detector; Optical radiation sensor; Poling; Polymer; Polyvinyl fluoride; 15183. SP305-7.
- Polyvinylidene fluoride; Pyroelectric; Radiometer; Transducers; Electrets; Hydrophone; Piezoelectric; Polymers; NBSIR 75-760. SP305-7.
- Polyvinylidene fluoride; Stress gages; Transducers; Piezoelectric; Polymeric transducer; Polymers; Polyvinyl fluoride; 16141. SP305-8.

- Poly(vinylidene fluoride) plastic lined pipe; PVF<sub>2</sub> lined pipe; Steel pipe and fittings, plastic lined; Pipe and fittings, steel, plastic lined; Plastic lined steel pipe; *PS35-70. SP305-3.*
- Polyvinylidenefluoride; Electrets; Piezoelectricity; Polarization; Polymers; Polyvinylchloride; Polyvinylfluoride; *NBSIR 75-787. SP305-7.*
- Polywater; Raman spectrum of polywater; Water; Anomalous water; Infrared spectrum of polywater; *11048. SP305-2.*
- Poly(1,4-cyclohexylenedimethylene terephthalate); Polystyrene; Poly(tetrafluoroethylene); Time; Reference specimens; Dielectric constant; Dissipation factor; Frequency; Fluorinated ethylene-propylene; Humidity; *J71C2-251, 119-125 (1967). SP305.*
- Poly-3,3,3-trifluoropropene; Gamma radiation; Polymerization; Pressure; Poly-5,5,5,4,4,3,3-heptafluoropentene-1; Poly-4,4,4,3,3-pentafluorobutene-1; *9226. SP305.*
- Poly-3,3,3-trifluoropropene; Pyrolysis; Random component; Thermal decomposition; Volatilization; High pressure; Initiation rate; *10092. SP305-1.*
- Poly(4-methylpentene-1); Polymer; Solution-grown; Chain-folded; Crystal, curved; Electron microscopy; Lamellar; Optical microscopy; *J76A No. 3, 225-252 (1972). SP305-4.*
- Poly-4,4,4,3,3-pentafluorobutene-1; Poly-3,3,3-trifluoropropene; Gamma radiation; Polymerization; Pressure; Poly-5,5,5,4,4,3,3-heptafluoropentene-1; *9226. SP305.*
- Poly-5,5,5,4,4,3,3-heptafluoropentene-1; Poly-4,4,4,3,3-pentafluorobutene-1; Poly-3,3,3-trifluoropropene; Gamma radiation; Polymerization; Pressure; *9226. SP305.*
- Pomeranchuk theorem; Asymptotics; Cross section; Diffraction shrinkage; High energy; *11870. SP305-3.*
- Pomeranchuk; Shrinkage; Theorem; Asymptotics; Elastic; Oscillations; *16249. SP305-8.*
- Pool fires; Residential sprinkler protection; Sprinkler operation; Automatic sprinklers; Bedroom fires; Droplet size; Heat absorption; *NBS-GCR-76-58. SP305-8.*
- Popular metric chart; Tribo-ellipsometry; Electrical engineering units; Electron recombination reactions; Heat pipe oven; Lead-based paints; *TNB 57, No. 3, 53-76 (1973). SP305-5.*
- Popular science writing; Science writers; Science writing; Science writing goals; Image of science; Lead paragraphs; *10855. SP305-1.*
- Population; Refractive index; RI variance; Statistics; Temperature coefficient; Auto headlamp glass; *15086. SP305-7.*
- Population density of atomic energy levels; Electromagnetic Tube; Local thermal equilibrium; *9690. SP305-1.*
- Population distribution; Rotation; Acetylene; CH; Chemiluminescence; Cross section; Emission spectrum; Energy transfer; Experimental; Gas; Oxygen atom; Oxidation; *9288. SP305.*
- Population inversion; Radio astronomy; Emission line; Interstellar medium; Laboratory measurement; Methyl alcohol; *15994. SP305-8.*
- Pop-up; Polish notation; Push-down; Radioactivity and isotopic calculations; Recursion; Statistical calculations; Instruction list; Iteration; Memory register; Operational stack; *13740. SP305-5.*
- Porcelain; Properties; Additive; Deformation; Dental; *14977. SP305-7.*
- Porcelain; Sieve; Silica; Sinks; Abrasives; Bathtubs; Cleansers; Detergents; Particle; Plastic; Plumbing; *10135. SP305-1.*
- Porcelain; Strength; Structural ceramics; Crack growth; Fracture; Fracture mechanics; *15322. SP305-7.*
- Porcelain adhesion; Resin; Silane; Teeth; Bonding; Coupling agent; Denture; Plastic; *9494. SP305.*
- Porcelain balling reduction; Ammonium stabilized silica and alumina sols; Colloidal alumina and silica for dental porcelain; Dental porcelain; *U.S. Patent 3,973,970. SP305-8.*
- Porcelain, dental; Porcelain-gold techniques and materials; Aluminous porcelain; Ceramic materials, dental; Dental materials; Dental porcelain; Dispersion strengthening of glass; *SP354, pp. 77-83. SP305-4.*
- Porcelain enamel; Cleanability; Fluorescence; *12439. SP305-4.*
- Porcelain enamel; Porcelain enamel defects; Bubble structure; Continuity of coating; Corrosion resistance; High-voltage testing; *9223. SP305.*
- Porcelain enamel; Relative humidity; Weather resistance; Adherence; Color; Gloss; PH; *BSS50. SP305-6.*
- Porcelain enamel; Sanitary ware; Sheet steel; Abrasion resistance; Chemical resistance; *P55-66. SP305.*
- Porcelain enamel; Scanning electron microscope; Weathering tests; Non-dispersive x-ray spectrometer; Corrosion; Pinhole type defects; *13714. SP305-5.*
- Porcelain enamel; Soil, residual; Cleanability, porcelain enamel surfaces; Fluorescent soils; *9222. SP305.*
- Porcelain enamel; Spall; Adherence; Aluminum; Chromium; Electron microprobe; Electron microscope; Interface; Magnesium; *10647. SP305-1.*
- Porcelain enamel; Spall resistance; Adherence; Aluminum; Electron microscope; Interface; *11317. SP305-2.*
- Porcelain enamel; Spalling; X-ray diffraction; Adherence; Aluminum; Electron microprobe; Electron microscope; *BSS5. SP305-6.*
- Porcelain enamel; Steel; Weather resistance; Accelerated test; Acid resistance; Aluminum; Color; Gloss; *13715. SP305-5.*
- Porcelain enamel; Weather resistance; Acid resistance; Color; Continuity of coating; *TN707. SP305-4.*
- Porcelain enamel; Weather resistance; Acid resistance; Color; Gloss; *BSS38. SP305-3.*
- Porcelain enamel; Weather resistance; Continuity of coating; High-voltage; *11669. SP305-2.*
- Porcelain enamel defects; Bubble structure; Continuity of coating; Corrosion resistance; High-voltage testing; Porcelain enamel; *9223. SP305.*
- Porcelain enamel direct-to-steel; Adherence; Instrumentation evaluation; *12138. SP305-3.*
- Porcelain enamel on aluminum; Adherence; Aluminum oxidation; Conversion chromate coating; Electron microprobe; Electron microscope; Magnesium; *11691. SP305-2.*
- Porcelain enamel on aluminum; Weather resistance; Color; Gloss; *13383. SP305-5.*
- Porcelain enamel on aluminum; Weather resistance; Color; Gloss; *11670. SP305-2.*
- Porcelain enamel on aluminum; Weather resistance; Color; Gloss; *BSS29. SP305-2.*
- Porcelain insulators; Proof testing; Residual strain; Acoustic emission; Macrocracking; *16069. SP305-8.*
- Porcelain-gold materials; Solder, gold alloy; Alloys, dental casting; Ceramic-metal systems; Chrome-cobalt alloys; Dental materials; Gold alloys; Metallurgy, dental alloy; *SP354, pp. 67-73. SP305-4.*
- Porcelain-gold restorations, stress analysis; Stress analysis; Dental structures; Brittle coatings for stress analysis; Dental materials; Denture, artificial, stress analysis; Photoelasticity; dental applications; *SP354, pp. 169-175. SP305-4.*
- Porcelain-gold techniques and materials; Aluminous porcelain; Ceramic materials, dental; Dental materials; Dental porcelain; Dispersion strengthening of glass; Porcelain, dental; *SP354, pp. 77-83. SP305-4.*
- Pore size distribution; Pore volume; Surface area; Surface chemistry; Teeth; Adsorption; Anorganic bone mineral; Dentin; Bone; Calcium phosphate; Hydroxyapatite; Octacalcium phosphate; *9899. SP305-1.*
- Pore size distribution; Porosity; Specific surface; Materials; Performance evaluation; *SP361, Vol. 1, pp. 669-675. SP305-4.*
- Pore volume; Surface area; Surface chemistry; Teeth; Adsorption; Anorganic bone mineral and dentin; Bone; Calcium phosphate; Hydroxyapatite; Octacalcium phosphate; Pore size distribution; *9899. SP305-1.*



- Pore-controlled glass; Restricted diffusion; Steric-exclusion chromatography; Chromatography; Diffusion; Gel chromatography; Gel filtration; Gel-permeation chromatography; Glass chromatography; GPC; *10357. SP305-1.*
- Pore-water pressure; Earthquake; Explosion test; Ground strength; Ground vibration; Liquefaction; *SP444*, pp. III-38-III-51 (Apr. 1976). **SP305-8.**
- Porosity; Scanning electron microscopy; Cement; Compressive strength; Flexural strength; Fracture mechanics; Polymer impregnated cement; Polymer impregnated mortar; *BSS83. SP305-8.*
- Porosity; Shear modulus; Young's modulus; Yttria; Elastic moduli; Poisson's ratio; *10541. SP305-1.*
- Porosity; Specific surface; Materials; Performance evaluation; Pore size distribution; *SP361*, Vol. 1, pp. 669-675. **SP305-4.**
- Porosity; Spin wave; Dipolar narrowing; Ferrites; Ferromagnetic resonance relaxation; Polycrystals; *10020. SP305-1.*
- Porosity in gold; Solder plate; Tin-nickel alloy; Tin plate; Underplatings for gold; Wear of gold; Contact lubrication; Corrosion inhibitors; Electrical contacts; Gold plate; Palladium; Polymer in gold; *SP452*, pp. 64-71 (Sept. 1976). **SP305-8.**
- Porosity of dental amalgam; Amalgam, dental; Amalgam, dental, effect of technique on corrosion; Clinical failure of amalgam; Corrosion, dental amalgam; Dental materials; Marginal fracture, dental amalgam; Mercuroscopic expansion, dental amalgam; *SP354*, pp. 33-41. **SP305-4.**
- Porous electrodes; Implantable hybrid cells; Pacemakers; Palladium black; Platinum black; Polarization; *SP415*, pp. 55-61. **SP305-7.**
- Porous glass; Fluorescence; Mössbauer spectroscopy; *15115. SP305-7.*
- Porous glass; Proteins; Sodium dodecyl sulfate; Chromatography; Controlled pore glass; Denaturing solvents; Glass; Molecular weight; Permeation; *14068. SP305-6.*
- Porous glass; Radiopacity; Reinforcements; Wear; Composite resins; Composites; Dental materials; Fillers; *16586. SP305-8.*
- Porous glass; Radiopacity; Reinforcements; Wear; Composite resins; Composites; Dental materials; Fillers; *16587. SP305-8.*
- Porous glass; Virus; Chromatography; Glass; Kilham rat virus; MS2 virus; *10358. SP305-1.*
- Porous glass chromatography; Protein; Protein-sodium dodecyl sulfate complexes; Sodium dodecyl sulfate-complexes; Chromatography; Controlled pore glass; Molecular size; *13721. SP305-5.*
- Porous glass chromatography; Protein; Protein-sodiumdodecyl-sulfate complexes; Sodiumdodecylsulfate-complexes; Chromatography; Controlled pore glass chromatography; Molecular size; *14307. SP305-6.*
- Porous media; Thermal transpiration; Transport phenomena; Viscous flow; Continuous systems; Diffusion flow; Discontinuous systems; Membranes; Nonequilibrium thermodynamics; *10362. SP305-1.*
- Porous membranes; Adsorption of water; Cellulose acetate; Dehydration; Free induction decay; Freezing of water; Irreversible processes; Membranes; NMR; *13947. SP305-6.*
- Porous plug; Sulfur dioxide concentration; Air pollution; Critical flow; Laminar flow; Nozzle; *NBSIR 73-414. SP305-6.*
- Porous plug; Sulfur dioxide concentration; Carbon dioxide concentration; Air pollution; Critical flow; Laminar flow; Nozzle; *NBSIR 74-612. SP305-7.*
- Portable circular saws; Power saws; Radial arm saws; Safety; Table saws; Accident research; Consumer products; Injury data; Opinion survey; *NBSIR 75-748. SP305-7.*
- Portable clock; Standard time broadcasts; VLF propagation; Worldwide clock synchronization; Multiple VLF transmissions; *9711. SP305-1.*
- Portable clock; VLF propagation; Analysis of variance; Atomic frequency standard errors; *9585. SP305-1.*
- Portable clocks; Radio propagation; Satellite time dissemination; Television time and frequency dissemination; Time-frequency; Time signal noise; System designs; Transfer standards; Automatic vehicle location; Dissemination of time and frequency; *13433. SP305-5.*
- Portable clocks; Radio propagation; Satellite time dissemination; Television time and frequency dissemination; Time signal noise; Time-frequency system designs; Transfer standards; Dissemination of time and frequency; *13435. SP305-5.*
- Portable clocks; Rubidium frequency standard; Time comparison; Atomic clocks; Frequency stability; *16489. SP305-8.*
- Portable clocks; Satellite timing; Standard frequency; Standard frequency broadcasts; Time signals; *9954. SP305-1.*
- Portable clocks; Standard frequency broadcasts; Time; Time signals; VLF propagation; Frequency; *10015. SP305-1.*
- Portable clocks; Time dispersion; Time synchronization; TV timing; Allan variance; Cesium beam standards; Frequency stability; Frequency standards; Loran-C; *12973. SP305-4.*
- Portable clocks; Time synchronization; TV timing; USNO time scale; Atomic clock comparisons; Clock comparisons; Loran-C; NBS time scale; *12584. SP305-4.*
- Portable clocks; Time synchronization; TV timing; Cesium beam standards; Frequency standards; Loran C; *14269. SP305-6.*
- Portable lead detectors; Portable x-ray fluorescence analyzers; *In situ* lead detection; Lead detection; Lead paint detection; *13254. SP305-5.*
- Portable picnic coolers; Coolers, portable picnic; Picnic coolers, portable; *PS49-71. SP305-3.*
- Portable radio; Standards; Communications; Mobile radio; Police; Police equipment; *NBSIR 73-211. SP305-6.*
- Portable transceiver batteries; RF power meter; Utilities system; Batteries; Dental materials; Industry; Integrated utilities system; Mass spectrometry; Motorized criminal; Ozone puzzle; *DIJ/NBS 60*, No. 3, 1-24 (1976). **SP305-8.**
- Portable transmitter; Radio frequency carrier; Transmitter; Audiofrequency modulation; Communications; Electromagnetic compatibility; Law enforcement; Personal transmitter; *16285. SP305-8.*
- Portable x-ray fluorescence; Random sampling; X-ray fluorescence; Lead paint; Lead paint detection; Lead paint programs; Lead poisoning; *TN921. SP305-8.*
- Portable x-ray fluorescence analyzers; *In situ* lead detection; Lead detection; Lead paint detection; Portable lead detectors; *13254. SP305-5.*
- Portable x-ray fluorescence lead calibration standards; Lead paint detection; Portable x-ray fluorescence lead detector; *13766. SP305-5.*
- Portable x-ray fluorescence lead detector; Portable x-ray fluorescence lead calibration standards; Lead paint detection; *13766. SP305-5.*
- Portland cement; Chemical analyses; Physical tests; *BSS17. SP305-1.*
- Portland cement; Shrinkage of portland cements; Trace elements; Chemical composition of portland cements; Cracking of portland cements; Cracking resistance of cements; *BSS15, Sec. 9. SP305-1.*
- Portland cement; Structural performance; Aggregates; Cement; Concrete; Concrete quality; Materials; Performance; *SP361, Vol. 1, pp. 719-724. SP305-4.*
- Portland cement; Testing; Walls; Lime (dolomitic); Masonry; Mortars (materials); *15992. SP305-8.*
- Portland cement concrete; Shrinkage of concrete; Trace elements; Cement composition; Expansion-shrinkage ratios; *BSS15, Sec. 10. SP305-1.*
- Portland cements; Precision; Tests; Wagner turbidimeter; Air-permeability; Cements; Fineness; No. 325 sieve; *13855. SP305-6.*

- Portland cements; Shrinkage; Statistical evaluation; Strength; Sulfate expansion; Trace elements; Alkalies; Concrete; Durability; Heat of hydration; 11863. SP305-3.
- Port-vane geometry; Vacuum vane gauge; Design criteria; 11931. SP305-3.
- Position errors; Quality and compatible part material; Quality diamond tools; Controlled environment; Diamond machining; Machined optics; Nondistortion part support; SP435, pp. 75-89 (Apr. 1976). SP305-8.
- Position location; Shipping and boating industries; Standards laboratories; Telephone industry and specialized carriers; Time and frequency; Time scales; Atomic frequency standards; Aviation industry; Electric power industry; National Measurement System; SP445-1. SP305-8.
- Position of hook; Pull rate; Pull strength; Resolution-of-forces; Semiconductor devices; Ultrasonic bonding; Wire bond; Bond angle; Bonding; Bond pull test; Bond-to-bond spacing; Large wire; Loop height; Microelectronics; Nondestructive bond pull test; SP400-18. SP305-8.
- Position sensors; RF interferometer; Agriculture; Computer control; 16143. SP305-8.
- Position servos; Trajectory control; Computer control of automation systems; Computer interface; Computer software for robot control; Hierarchical control of manipulators; NBSIR 75-973. SP305-8.
- Positional disorder; Single crystal; X-ray diffraction; Beta tricalcium phosphates; Cation vacancies; 14540. SP305-6.
- Position-location; Ranges; Simulation; Algorithms; Least-squares; Multilateration; 14387. SP305-6.
- Positive and negative atomic ions; Rhenium; Self-surface ionization; Tungsten; Electron affinity; Ion sublimation energy; Mass spectrometry; 10181. SP305-1.
- Positive and negative ions; Self-surface ionization; Electron affinity; Ion sublimation energy; Mass spectrometry; Molybdenum; 10347. SP305-1.
- Positive and negative ions; Sublimation; Transition metals; Mass spectrometry; J74A No. 1, 37-43 (1970). SP305-2.
- Positive and negative self-surface ionization; Tungsten; Electron affinity; 9393. SP305.
- Positive and negative surface ionization; Electron affinity; Lithium; Mass spectrometry; 11447. SP305-2.
- Positive definite; Determinant; Hadamard's inequality; Hermitian component; 15861. SP305-8.
- Positive definite; Field of values; Hermitian matrix; Normal matrix; 15172. SP305-7.
- Positive definite; Principal minor; Routh-Hurwitz conditions; Sign stable; Sign symmetric; Stability; Tridiagonal; Diagonally dominant; Diagonal matrix; D-stability; Gersgorin's theorem; Lyapunov's theorem; M-matrix; Oscillatory; 14782. SP305-7.
- Positive definite; Real part; Eigenvalues; Hadamard inequality; 15341. SP305-7.
- Positive definite; Spectrum; Angular field of values; Diagonal; Diagonally dominant; Field of values; Gersgorin; Hadamard product; Hermitian; 15272. SP305-7.
- Positive definite; Spectrum; D-stable matrix; Diagonal; Doubly stochastic matrix; Field of values; Gersgorin circles; Numerical radius; 13994. SP305-6.
- Positive definite; Spectrum; Square matrix; Cramped; Field of values; Open positive convex cone; Polar decomposition; J78B No. 1, 7-10 (1974). SP305-6.
- Positive definite; Trace; Commutator; Eigenvalues; 14033. SP305-6.
- Positive definite hermitian matrix; Fischer inequality; Hadamard determinant theorem; Permanent; J75B Nos. 1 and 2, 77-80 (1971). SP305-3.
- Positive definite hermitian matrix; Congruence; Doubly stochastic matrix; 14050. SP305-6.
- Positive definite matrix; Spectrum; Eigenvalues; Field of values; H-stable; J78B No. 4, 197-198 (1974). SP305-6.
- Positive diagonal matrix; Quadratic forms; Spectrum; D-stable matrix; 15252. SP305-7.
- Positive displacement; Cryogenic; Flow; Flowmeters; Liquid nitrogen; Measurement; TN605. SP305-3.
- Positive displacement; Cryogenic; Flow; Flowmeters; Liquid nitrogen; Measured; 14774. SP305-7.
- Positive displacement; Turbine; Vortex shedding; Angular momentum; Cryogenic; Flowmeter; Liquid nitrogen; Measurement; 15043. SP305-7.
- Positive ion; Cross section; Electron impact excitation; Ionized helium; 11679. SP305-2.
- Positive ion; Review; Rydberg states; Atom; Autoionizing; Collision; Cross section; Electron; Experiment; 15556. SP305-5.
- Positive ions; Appearance potential; Compilation; Data; Heat formation; Ionization potential; Ions; NSRDS-NBS26. SP305-1.
- Positive mapping; Semi-discrete approximations; Transparence equation; A-priori bound; Convergence; Finite difference; Hyperbolic equation; 12650. SP305-4.
- Positive molecular ions; Recombination; Electrons; Ion trap; 15593. SP305-7.
- Positive semidefinite; Angular field of values; Eigenvalues; Field of values; Hermitian; Inertia; J77B Nos. 1 and 2, 61-64 (1973). SP305-5.
- Positive semidefinite; Real function; Hadamard product; 15861. SP305-8.
- Positive semidefinite hermitian matrix; Trace; Characteristic group; 12612. SP305-4.
- Positive semi-definite hermitian matrix; Generalized matrix function; J74B No. 1, 45-46 (1970). SP305-2.
- Positive semidefinite hermitian matrix; Symmetry class of tensors; Permanent adjoint; 15314. SP305-7.
- Positive stable matrix; Arc-connectedness; Carlson-Johnson conjecture; D-stable; J. Res. 80B No. 1, 75-77 (1975). SP305-8.
- Positive stable matrix; Sign-symmetry; Spectrum; J78B No. 1-2 (1974). SP305-6.
- Positive stable matrix; Spectrum; D-stable; J78B No. 1, 11-12 (1974). SP305-6.
- Positron; Atom; Collision cross section; Detachment; Dissociation; Elastic scattering; Electron; Excitation; Fluorescence; Ion; Ionization; Molecule; Photon; SP426. SP305-8.
- Positron annihilation; Angular correlation; Brass; Electron density of states; SP323, pp. 339-342. SP305-4.
- Positronium; Quenching; Annihilation radiation; Compton wavelength of the electron; J71A5-464, 347-353 (1968). SP305.
- Positronium; Thermalization; Elastic collisions; J72A No. 1, 91-93 (1968). SP305-1.
- Positrons; Triplet production; Electrons; Pair production; Photon polarization; Photons; 11406. SP305-2.
- Post irradiation heat treatment;  $\alpha$ -particle initiation; Chalcogenide crystals; Crystal growth mechanisms; Electron diffusion of polymers; Electron microscopy of polymers; Polymer crystals; Polymer morphology; Polyoxymethylene crystals; 12030. SP305-3.
- Postal automation; Child-proof matches; Hydrogen radiometry; Impact of Federal science; MHD materials research; Musical foghorn; TNB 57, No. 6, 139-152 (1974). SP305-5.
- Postal sorting; Voice encoding; Feasibility; Keyboard alternative; Man-machine interface; 13393. SP305-5.
- Postdoctoral appointments; Retroreflectors; Semiconductor technology; Thermocouple data; Video tape; Warning lights; Weights and measures; Auto paint; Chlorine monitor; Color measurements; Color use; DIM/NBS 58, No. 9, 193-200 (1974). SP305-6.
- Postirradiative decay; Aqueous solution; Cross-linking; Dextran triacetate; Gamma irradiation; Polymer degradation; J71A1-433, 25-31 (1967). SP305.

- lost-optimality analysis; Algorithms; Linear programming; Parametric programming; *NBSIR 75-666. SP305-7.*
- otable water; Vacuum breaker; Water supply; Backflow; Backflow preventers; Back pressure; Back-siphonage; Cross connections; Health hazard; *NBSIR 76-1070. SP305-8.*
- otable water protection; Plumbing guide criteria; Backflow; Backflow prevention devices; Back pressure; Backsiphonage; Guide criteria; *NBSIR 76-1020. SP305-8.*
- otassium; Absorption spectrum; Autoionization; Atomic energy levels; Electron configuration; *11391. SP305-2.*
- otassium; Atomic weight; *11387. SP305-2.*
- otassium; Praseodymium; Promethium; Rhenium; Rubidium; Sodium; Surface diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; *J. Phys. Chem. Ref. Data 4, No. 1, 177-250 (1975). SP305-7.*
- otassium; Pressure dependences; Pseudopotential; Resistivity ratios; Rubidium; Sodium; Thermoelement power; Alkali metals; Alloys; Cesium; Knight shift; Lithium; *SP323, pp. 651-657. SP305-4.*
- otassium; Pseudopotential; Sodium; Interband transition theory; Optical absorption; *11921. SP305-3.*
- otassium; Reference standard; Absolute ratios; Atomic weight; Isotopic abundance; *J.79A No. 6, 713-725 (1975). SP305-7.*
- otassium; Relative; Rocks; Rubidium; Soils; Absolute; Apollo; Composition; Isotopic; Lithium; *15869. SP305-8.*
- otassium; Rubidium; Sodium; X-rays; Photoelectron spectra; *13357. SP305-5.*
- otassium; Rubidium; Strontium; Thorium; Uranium; Chromium; Isotopic ratios; Lead; Model ages; Nickel; *13932. SP305-6.*
- otassium; Serum minerals; Serum storage effects; Sodium; Temperature effects; Trace elements; Zinc; Atomic absorption spectrophotometry; Calcium; Container effects; Copper; Magnesium; *SP422, pp. 575-591 (Aug. 1976). SP305-8.*
- otassium; Silicon; Sodium; Sulfur; Transition probabilities; Allowed and forbidden transitions; Aluminum; Argon; Calcium; Chlorine; Magnesium; Oscillator strengths; Phosphorus; *NSRDS-NBS22. SP305-1.*
- otassium; Single crystals; Zone refining; Fermi surface; Magnetoacoustic absorption; *9197. SP305.*
- otassium; Sodium; Activation analysis; Archeology; Glass; Manganese; Medieval windows; *13171. SP305-5.*
- otassium; Sodium; Aluminum; Argon; Atomic transition probabilities; Beryllium; Boron; Carbon chlorine; Helium; Hydrogen; Lithium; Magnesium; Nitrogen; Oxygen; *16164. SP305-8.*
- otassium; Sodium; Aluminum; Beryllium; Electrolysis; Liquid ammonia; Lithium; Magnesium; Nonaqueous systems, electrolysis of; *9598. SP305-1.*
- otassium; Sodium; Compton scattering; Electronic linear momentum distribution function; Lithium; *SP323, p. 345. SP305-4.*
- otassium; Spark cutting; Zone refining; Crystal growth; Fermi surface; Orientation; *J.71A2-443, 127-132 (1967). SP305.*
- otassium activity; Synthetic coal slags; System  $K_2O-CaO-Al_2O_3-SiO_2$ ; Vaporization; Crystallization; Magnetohydrodynamics; *16457. SP305-8.*
- otassium antimonate; Potassium fluoride-antimony oxide; Single crystals; Cubic potassium antimonate; Flux synthesis; Impurity stabilization; *14390. SP305-6.*
- otassium antimonate; Rubidium niobate; Rubidium tantalate; Sodium antimonate; Sodium antimonate fluoride; Ionic conductivity; Nonstoichiometry; *15439. SP305-7.*
- otassium antimonate; Sodium antimonate; Sodium antimony oxyfluoride; Alkali antimonates; Crystal growth; Ionic conductors; *J. Res. 80A Nos. 5 and 6, 761-774 (1976). SP305-8.*
- Potassium borohydride; Sodium borohydride; Spin lattice relaxation time; Lithium borohydride; Nuclear magnetic relaxation; Phase transition; *11167. SP305-2.*
- Potassium chlorate; Instrumentation; Nuclear quadrupole resonance thermometry  $12^\circ K-297^\circ K$ ; *10282. SP305-1.*
- Potassium chlorate; Measurements at  $0^\circ K$ ; Nuclear quadrupole resonance thermometry; *J.71A2-442, 125-126 (1967). SP305.*
- Potassium chlorate; Temperature variation;  $12^\circ K-90^\circ K$ ; Bayer-Kushida theory; Chlorine; Nuclear quadrupole resonance; *10238. SP305-1.*
- Potassium chloride; Charged impurities;  $F$  center; Gaussian distribution; Holtsmark distributions; Lifetime; Phonons; *13023. SP305-4.*
- Potassium chloride; Salt mixtures; Sodium chloride; Solutions; Deuterium oxide; *11437. SP305-2.*
- Potassium chloride; Sodium chloride; Standards; Activity standards; Clinical pH; Electrodes; Ion-selective electrodes; PH; *12695. SP305-4.*
- Potassium chloride; Sputtering of germanium; Characterization of laser damage; E-beam deposition of germanium; Germanium coating; Laser damage mechanism; Laser induced damage; Multiple beam damage apparatus; *SP414, pp. 76-84. SP305-6.*
- Potassium chloride; Surface acoustic waves; Surface characterization; Transmission electron microscopy; Auger electron spectroscopy; Ion beam profiling; Laser-induced damage; Lithium niobate; *SP414, pp. 135-140. SP305-6.*
- Potassium chloride; Sylite; Thermodynamic properties; Heat of fusion; High-temperature drop calorimetry; Lattice vacancies; Muriate of potash; *J.78A No. 4, 515-529 (1974). SP305-6.*
- Potassium chloride; Tellurium; Ultrasonics; Bulk modulus; Equation of state; High pressure; Phase transitions; *11746. SP305-2.*
- Potassium chloride; Ultrasonics; Bulk modulus; Equation of state; High pressure; Phase transitions; *16029. SP305-8.*
- Potassium chloride; Vapor pressure; Activity coefficient; Calcium chloride; Isopiestic measurements; Mixed salt solutions; Osmotic coefficients; *J.72A No. 3, 239-245 (1968). SP305-1.*
- Potassium compounds; Rubidium compounds; Sodium compounds; Standard reference data; Thermochemical tables; Enthalpy; Entropy; Gibbs energy; Heat capacity; *NBSIR 76-1034. SP305-8.*
- Potassium cyanide; Cyanide ion; Disorder; Ion displacements; Lattice dynamics; Libration; Neutron diffraction; *12671. SP305-4.*
- Potassium cyanide; Sodium cyanide; Angular distribution; Crystal structure; Cyanide ion; Debye-Waller factor; Neutron diffraction; Orientational disorder; *13290. SP305-5.*
- Potassium dihydrogen phosphate; Self-focusing; Thermal self-focusing; Thoria-yttrium oxide ceramic; Yttrium aluminum garnet; Absorption coefficient; Calcite; Damage threshold; Deuterated potassium dihydrogen phosphate; Electrostriction; *13793. SP305-5.*
- Potassium dinitrobenzofuroxan; Primary explosives; Differential thermal analysis; Dupont 900 DTA remote cell; Lead azide; Lead styphnate; Mercury fulminate; Metastable materials; *SP338, pp. 151-164. SP305-2.*
- Potassium fluoride-antimony oxide; Single crystals; Cubic potassium antimonate; Flux synthesis; Impurity stabilization; Potassium antimonate; *14390. SP305-6.*
- Potassium iodide; Calibration cell; Chlorine concentration; Chlorine monitor; Electrochemical calibration; Internal calibration; Iodine detection; *U.S. Patent 3,966,413. SP305-8.*
- Potassium nitrate; Procedure of ICTA Standards Committee and NBS; Standard in thermal analysis; Transition from I  $\rightarrow$  III; *14906. SP305-7.*

- Potassium pentaborate; U.v. generation; Doubling; Laser; 15932. SP305-8.
- Potassium rhenium hydride; Potential barrier; Proton; Second moment; Internal reorientation; Nuclear magnetic relaxation; 11500. SP305-2.
- Potassium tantalate; Band structure; Magnetoresistance; Perovskites; 11589. SP305-2.
- Potassium tantalate; Dielectric constant; Dielectric relaxation; Electret; Polarization; 16638. SP305-8.
- Potassium tantalate; Dislocation damping of acoustic waves; Nuclear magnetic acoustic resonance; Nuclear magnetic resonance; Nuclear quadrupole coupling; 10225. SP305-1.
- Potassium titanate; Base, dental; Cement, dental; Cement, polycarboxylate; Cement, reinforced; Fiber reinforcement; Poly(acrylic-itaconic acid); Polycarboxylate; 15013. SP305-7.
- Potatoes; Residues, dissipation of; Residues, in potatoes; Residues, metabolic; Residues, total; Residues, volatilization; Storage effects; 2,4-dichlorophenol; 2,4-dichlorophenoxyacetic acid; Gas chromatography; SP422, pp. 737-745 (Aug. 1976). SP305-8.
- Potatoes, instant mashed, package quantities of; Instant mashed potatoes, package quantities of; Mashed potatoes, instant, package quantities of; Package quantities of instant mashed potatoes; SP41-70. SP305-3.
- Potential; Soil corrosion; Cathodic protection; Copper; Corrosion current; Corrosion rate; Polarization; 10055. SP305-1.
- Potential; Thermal conductivity; Thermal diffusion; Transport properties; Viscosity; Collision integrals; Diffusion; J.72A No. 4, 359-432 (1968). SP305-1.
- Potential; Thermal conductivity; Thermal diffusion; Transport properties; Viscosity; Collision integrals; Diffusion; NSRDS-NBS47. SP305-6.
- Potential barrier; Proton; Second moment; Internal reorientation; Nuclear magnetic relaxation; Potassium rhenium hydride; 11500. SP305-2.
- Potential barrier; Rotation; Thiourea; Urea; Ferroelectric; Libration; Molecular vibrations; Neutron spectra; Phase transitions; 10425. SP305-1.
- Potential barrier to internal rotation; Equilibrium compositions; Heat of isomerization; Ideal gas thermodynamic properties; Isobutane; *n*-butane; J. Phys. Chem. Ref. Data 4, No. 4, 859-870 (1975). SP305-7.
- Potential barrier to rotation; Relaxation times; Dielectric relaxation; Long chain molecule; Molecular crystals; Multiple site model; 9787. SP305-1.
- Potential curve; Predissociation; Vibrational overlap; Born-Oppenheimer; Hartree-Fock; Molecular hydrogen; Partial widths; 12102. SP305-3.
- Potential curve; Self-consistent-field; Dipole moment function; Dissociation energy; Electronic structure; Hydroxyl radical; 14805. SP305-7.
- Potential curves; Dissociation laser; Excimers; Excited state kinetics; *f*-values; Mercury molecules; New spectroscopic techniques; Optical excitation; Monogr. 143. SP305-7.
- Potential curves; Resonant; Spin exchange; Adiabatic collisions; Charge transfer; Nonresonant; 15875. SP305-8.
- Potential diffraction; Radiator, piston; Sound; Acoustics; Diffraction, potential; Piston radiator; 9319. SP305.
- Potential energy calculations; Relaxation strength; Two-site model; Mechanical relaxation; Methyl branches; Paraffins; Polyethylene; 14752. SP305-7.
- Potential energy calculations; Relaxation mechanism; Relaxation strength; Site model; Mechanical relaxation; Methyl branches; Paraffins; Polyethylene; 15329. SP305-7.
- Potential energy curve; BeH<sup>+</sup>; Correlation energy; Dissociation energy; LiH; Molecular orbital; J.72A No. 1, 85-90 (1968). SP305-1.
- Potential energy curves; Pseudopotentials; Self-consistent field; Valence electrons; Basis functions; Configuration mixing; Dipole moments; Electronic structure of molecules; Hartree-Fock; Integrals, evaluation of; Molecular structure; Orbitals; 16611. SP305-8.
- Potential energy curves; Rotational and vibrational constants; Absorption spectra; Carbon monoxide; Electronic transition; Identification atlas; J. Phys. Chem. Ref. Data 1, No. 1, 14188 (1972). SP305-6.
- Potential energy curves; Rotational spectrum; Spectroscopic constants; Critical review; Electronic spectrum; Molecular oxygen; J. Phys. Chem. Ref. Data 1, No. 2, 423-534 (1972). SP305-6.
- Potential energy surfaces; Recombination; Review; Unimolecular decomposition; Atom-transfer reaction; Chemical activation; Chemical kinetics; Chemi-excitation; Gas phase; 11940. SP305-3.
- Potential function; Argon; Correlation; Dilute gas; Discrepancies; High temperature viscosity; 10361. SP305-1.
- Potential function; Scattering; Second virial; Viscosity; Gas; termolecular potential; 12162. SP305-3.
- Potential function; Self-diffusion coefficient; 11-6-8 potential function; Correlation function; Experimental data; Hydrodynamic behavior; Methane; Molecular dynamics; 15173. SP305-7.
- Potential function; Specific heat; Statistical mechanical ensembles; Thermodynamic properties; Three body force; Methane; Molecular dynamics; 15310. SP305-7.
- Potential function families; Sensitivity of coefficient; Isothermal diffusion coefficient; Fitting of experimental data; 11320. SP305-2.
- Potential functions; Argon; Correlation; Dilute gas viscosity; Kinetic theory; 11319. SP305-2.
- Potential functions; Barriers to planarity; Cyclobutane; Cyclobutane-*d*<sub>4</sub>; Isotope effect; Kinetic energy terms; 1480. SP305-7.
- Potential functions; Dilute gases; Neon; Krypton; Xenon; Transport coefficients; Correlations; M-6; Kihara; Exp. 6, Mol. TN352. SP305.
- Potential functions; Empirical and semi-empirical; Transport properties; Virial coefficients; Atoms; Compressibility; Heat of sublimation; Molecules; TN246. SP305.
- Potential functions; Second virial coefficient; Viscosity coefficients; Argon; Cross sections; 13138. SP305-5.
- Potential functions; Special functions; Thermodynamics; Transport properties; Argon; Kinetic theory; Phase studies; 97. SP305-1.
- Potential functions; Spectroscopy; Vibration; Absorption spectra; Infrared; Instrumentation; 11379. SP305-2.
- Potential heat; Effluent fire product; Fire gas; Fire hazard; Gas hazard; Hazard analysis; Insulation; Loss on ignition; 141. SP305-6.
- Potential heat; Reinforced plastic; Small furnace test; Smo. Aluminum bulkhead; Combustion gases; Fire endurance; Insulation; Intumescent paint; NBSIR 76-1012. SP305-8.
- Potential heat; Self heating; Building materials; Calorimetry; Combustibility; Flammability; Heat release rate; 161. SP305-8.
- Potential heat; Structural load; Apartment dwelling; Burn test; Fire load; Fire performance; Flame penetration; BSS. SP305.
- Potential heat; Tests; Calorimetry; Combustibility; Evaluation; Fire tests, heat of combustion; Interlaboratory tests; Oxygen bomb; 11627. SP305-2.
- Potential measurements; Pulse measurements; Dielectric liquids; Electro-optical measurements; Electrostatic field measurements; High voltage measurements; Kerr cell; Liquid applications; J.73C Nos. 1 and 2, 5-13 (1969). SP305-1.
- Potential model calculation; Proton-proton bremsstrahlung; Scattering amplitude; Coplanar and non-coplanar events; Differential cross section; Double scattering term; Off-the-energy-shell behaviour; 10633. SP305-1.



- potential model calculation; Proton-proton bremsstrahlung; Differential cross section; Noncoplanar proton bremsstrahlung; Off-the-energy-shell behavior; 11295. SP305-2.
- potential model calculations; Proton-proton bremsstrahlung; Angular distributions; Low energy approximation; Noncoplanarity; Off-the-energy-shell matrix elements; Photon; 10911. SP305-2.
- potential of mean force; Closure; Consistency; Hierarchy; Kirkwood superposition; 11430. SP305-2.
- potential parameters; Second virial coefficient; Third virial coefficient; Water vapor; Air constituents; Boyle temperature; Deuterium; Hydrogen; Intermolecular potential; Inversion temperature; Methane; Noble gases; 13108. SP305-5.
- potential scattering; Recoupling coefficients; Regge poles; Special functions; Analytical continuation; Electron scattering; 12388. SP305-4.
- potential service conditions; Proliferation of specifications; Environmental extremes; Fail-safe operation; High strength materials; Mechanical failure; SP423, pp. 193-197 (Apr. 1976). SP305-8.
- potential values; Transition probabilities vs. energy values; Translational-vibrational energy transfer; Atom-diatom transitions; Data tables; Distorted wave calculations; Exact quantum mechanical calculations; NBS-OSRDB-70-3 (AD705110). SP305-3.
- potential-divider resistor; Quantum standard of voltage; Solder-drop Josephson junctions; Superconductivity; Inductive ratio divider; Josephson effect; NPL of UK; SP335, pp. 111-115. SP305-3.
- potentials of average force; Critical phenomena; Entropy-energy-volume; Fluctuations; Fundamental maximum principle; Generalized Ornstein-Zernike equation; Molecular distribution functions; Ornstein-Zernike theory; Percus-Yevick equation; 10966. SP305-2.
- potentials of mean force; Activity derivatives; Closed system; Correlation functions; Entropy; Open system; 12373. SP305-3.
- potentiometer; Programmable potentiometer; Self-balancing potentiometers; Thermometry; Automatic potentiometry; Automation; Calorimetry; Dieselhorst ring; *J. Res.* 80A No. 4, 669-675 (July-Aug. 1976). SP305-8.
- potentiometer; Voltage standard; Frequency-to-voltage ratio; Josephson effect; 12067. SP305-3.
- potentiometric measurements; Hydrofluoric acid; Ionization constant; Lanthanum fluoride electrode; Least squares procedure; *J.75A No. 3*, 205-211 (1971). SP305-3.
- potentiometry; Analate additions potentiometry; Fluoride; Fluoride ion selective electrode; 11297. SP305-2.
- potentiometry; Dosimetry; Electrochemistry; Ferric-fluoride complex; Ferrous sulfate solutions; Fluorides; Fricke dosimeter; Ion selective electrodes; Lanthanum fluoride; 13566. SP305-5.
- potentiometry; Electrode review; Ion-selective electrodes; Membrane electrodes; 14785. SP305-7.
- potentiometry; Fluoride activity electrode; Fluoride analysis; Linear null-point potentiometry; Microanalysis; Microcell design; 10542. SP305-1.
- potentiometry; Fluoride analysis; Fluoride microanalysis; Fluoride microelectrode; Ion-selective microelectrode; Microelectrode; 11577. SP305-2.
- potentiometry; Ion-selective electrodes; Ion-selective electrode review; Membrane electrodes; 12449. SP305-4.
- potentiometry; Silver; Electroanalysis; Linear potentiometry; Microtitration; Null-point potentiometry; 10223. SP305-1.
- potentiometry; Silver; Linear null-point potentiometry; Microdetermination of silver; 10543. SP305-1.
- potentiometry; Specific ion electrode; Electrochemical analysis; Fluoride, analysis for; Fluoride electrode; Microchemical analysis; 10222. SP305-1.
- Potentiometry; Standard Reference Materials; Acidity; Coulometric analysis; Electrochemical analysis; Ionic activity; Ion-selective electrodes; PH measurements; Polarography; *TN583*. SP305-5.
- Potentiometry; Standard reference materials; Acidity; Conductivity; Coulometric analysis; Electrochemical analysis; Ionic activity; Ion-selective electrodes; PH measurements; *TN543*. SP305-2.
- Potentiometry; Water analyses; Water pollution; Amperometry; Chronopotentiometry; Conductivity; Coulometry; Electrochemical analysis; Polarography; 13192. SP305-5.
- Potentiostat; Anodic oxidation; Ellipsometry; Iron; Iron oxide films; Kinetics; Passivity; 9469. SP305.
- Potsdam; Absolute gravity; Acceleration; Free-fall; Gravity; *J.72C No. 1*, 1-20 (1968). SP305-1.
- Potsdam; Absolute gravity; Acceleration; Free-fall; g; Gravity; *Monogr.* 107. SP305-1.
- Potsdam system; Standard gravity; Units of force; Absolute gravity; Deadweight; Force; Geodetic pendulum; Gravity; Gravity meter; *TN491*. SP305-1.
- Potted end fittings; Structural engineering; Tensile strength; Transversely isotropic materials; Axisymmetric analysis; Cables (ropes); Composite materials; Contour plotting; End fittings for FRP rod and rope; Finite element analysis; FRP rod; FRP rope; 15399. SP305-7.
- Pound; Weight; Force; Kilogram; Mass; 16394. SP305-8.
- Pour point; Spectrometric analysis; Stability; Trace elements; Viscosity; Calibration standards; Concentration validity; Flash point; Lubricating oil; *TN751*. SP305-5.
- Powder; Copper; Cryogenics; Dilution refrigerator; Helium-3-helium-4; Kapiza resistance; Phonon-electron interaction; 12552. SP305-4.
- Powder; Silver; Copper alloy; Copper; Cryogenics; Dilution refrigerator; Heat exchanger; Kapiza resistance; Liquid helium; 15238. SP305-7.
- Powder; Silver; Cryogenics; Dilution refrigerator; Heat transfer; Helium 3; Helium 4; Kapiza resistance; Liquid helium; 15219. SP305-7.
- Powder; Sintering; Copper; Heat transfer; Helium 3-helium 4; Kapiza resistance; Phonon-electron interaction; Phonon-quasiparticle interaction; 14749. SP305-7.
- Powder coating; Salt water; Solid lubrication; Abrasion; Corrosion protection; Friction; Marine environment; SP452, pp. 25-30 (Sept. 1976). SP305-8.
- Powder, diamond; Sizes, sub-sieve of diamond powder; Diamond powder, grading; Grading of diamond powder; PS62-74. SP305-7.
- Powder diffraction; Ambiguities; Geometrical; Indexing; Patterns; 15572. SP305-7.
- Powder diffraction standard, silicon; Silicon powder diffraction standard; Standard, powder diffraction; Standard reference material, silicon; 14905. SP305-7.
- Powder metallurgy; Quantitative microscopy; SRM; X-ray fluorescence analysis; Austenite in ferrite; Electron microprobe; SP260-25. SP305-3.
- Powder metallurgy; Spectrometric standards; Standard Reference Materials; W-Mo alloys; Electron probe analysis; Metallography; SP260-16. SP305-1.
- Powder metallurgy; Tungsten-molybdenum alloys; Homogeneity testing; Metallography; Microprobe analysis; NBS standards; 11483. SP305-2.
- Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; *Monogr.* 25, Section 10. SP305-4.
- Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; *Monogr.* 25, Section 9. SP305-3.
- Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; *Monogr.* 25, Section 7. SP305-1.

- Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; *Monogr. 25, Section 8. SP305-2.*
- Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; *Monogr. 25, Section 12. SP305-7.*
- Powder patterns; Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; *Monogr. 25, Section 13. SP305-8.*
- Powdered iodide; Sulfur; Body scatterer; Cesium diode; Diffuse reflector; *9736. SP305-1.*
- Powder-patterns; Reference-intensities; Standard; Structure; X-ray diffraction; Constants; Crystal; Lattice; Measurements; *Mono. 25, Section 5. SP305.*
- Powder-patterns; Reference-intensities; Standard; Structure; X-ray diffraction; Constants; Crystal; Lattice; Measurements; *Monogr. 25, Section 6. SP305-1.*
- Powders; Thermal conductivity; Thermal diffusivity; Cryogenic insulation; *15177. SP305-7.*
- Powders; Thermal insulation; Cryogenics; Conductivity; Diffusivity; *11358. SP305-2.*
- Powders, compacted or pressed; Spectrochemical analysis; X-ray spectrochemical analysis; *10151. SP305-1.*
- Power; Premelting correction; Purity; Smoothing of observations; Thermodynamic properties; Thermodynamics; Thermometry; Time; Vaporization correction; Adiabatic calorimetry; Calorimeters; Calorimetry; Cryoscopy; Cryostats; Curvature correction; *11189. SP305-2.*
- Power; Progress; Reflection coefficient; Review; Standards; Survey; Antenna gain; Attenuation; Field strength; Impedance; Measurement; Microwave; Noise; Phase shift; *9565. SP305-1.*
- Power; Pulsed quantities; Squids; Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM Metrology; Field strength; Impedance; Noise; Phase; *NBSIR 74-395. SP305-7.*
- Power; Pulsed quantities; Squids; Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM metrology; Field strength; Impedance; Laser parameters noise; Optical electronics; Phase; *NBSIR 75-818. SP305-7.*
- Power; Pyroelectric; Laser; *TN665. SP305-7.*
- Power; Radiation; Reactor; Research; Utilities; Biology; Career; Ecological; Electricity; Energy; Environment; Fusion; Medicine; Nuclear; *TN888. SP305-7.*
- Power; Radiometry; Resonant cavity; Voltage; Waveform; Waveguide junction; Admittance; Antenna; Attenuator; Bolometer; Calorimetry; Horn; Impedance; Interferometry; Measuring system; Phase; *SP300, Volume 4. SP305-2.*
- Power; Ratio; Reflection coefficient; Reflectometer; Self-calibration; Six-ports; Vector voltmeter; Voltage; Admittance; Automated precision measurements; Correlator; Current; Impedance; Microwave circuit parameters; Microwave measurements; Phase angle; *TN673. SP305-7.*
- Power; Reflection coefficient; Six-port; Voltage; Admittance; Current; Impedance; Phase angles; *15800. SP305-8.*
- Power; Refrigeration; Simon; Size; Stirling; Claude; Cryogenics; Gifford-McMahon; Helium; Joule-Thomson; Liquid; *11146. SP305-2.*
- Power; Ruby; Calorimeter; Detector; Energy; Laser; *12011. SP305-3.*
- Power; Science; Technology; Artifacts; Balance; Computer; Impedance; Intelligence; *15199. SP305-7.*
- Power; Self balancing; Stabilizer; Bridge; Leveler; Microwave; *12042. SP305-3.*
- Power; Standard; Calorimeter; Microwave; *TN618. SP305-4.*
- Power; Standards; Attenuation; Calibration; Coaxial; Impedance; Microwave; *11250. SP305-2.*
- Power; Superconductivity; Cryogenics; Electricity; Energy; Helium; *14872. SP305-7.*
- Power; Voltage; Current; Directional coupler; Impedance; Phase; *14580. SP305-6.*
- Power; Work; Computer efficiency; Evaluation; Measurement; Performance; *SP406, pp. 131-134. SP305-7.*
- Power amplifier; Power supply oscillator; Stable ac supply; Voltage monitor; Absolute volt experiment; Feedback control system; *14053. SP305-6.*
- Power averaging; Switch contact arrangement; Transient; Calorimetry; Constant current power supply; Energy measurement; *10872. SP305-2.*
- Power comparator; Prototype noise power comparator; Radiometers; Spectral densities; Noise power comparator; *10153. SP305-1.*
- Power density meter calibration; TEM transmission cell; Hazard level fields; *NBSIR 75-804. SP305-7.*
- Power detectors; Sidearm power detector; Directional coupler; *16567. SP305-8.*
- Power dissipation; Power supply; Preregulator; Regulation factor; Ripple voltage; Transistor; Voltage regulation; Zen diode; D-C amplifier; Design equations; Differential amplifier; Dual regulator; Integrated circuit; Output resistance; *TN371. SP305-1.*
- Power dissipation; Temperature distribution, steady-state; Temperature gradients; Temperature irregularities; Temperature variation; Thermal conductivity; Analytic solutions; Boundary conditions; *J75C No. 2, 79-83 (1971). SP305-3.*
- Power equation; Power measurement; Terminal invariance; Microwave measurements; *TN637. SP305-5.*
- Power equation; Power measurement; Calibration; Connector mismatch; *J75C No. 2, 89-93 (1971). SP305-3.*
- Power equation concept; Automated measurements; Bolometer unit calibration; *14823. SP305-7.*
- Power equation concept; Automation techniques; Bolometer units; Calibration; *14995. SP305-7.*
- Power equation concepts; Reflectometers; *16552. SP305-8.*
- Power factor; Capacitors; Energy conservation; Fluorescent lamp; Fluorescent luminaire; Lighting efficiency; *TN81. SP305-7.*
- Power gain; Satellite; Calibration accuracy; Effective area; Effective radiated power; Extrapolation method; Gain comparison method; Microwave antenna; *14970. SP305-7.*
- Power generation; Synthetic fuels; Energy storage; Hydrogen utilization; *15416. SP305-7.*
- Power law; Slope of the coexistence curve diameter; Asymmetry; Coexistence curve; Compressibility; Critical points; Critical point; Decorated lattice gas; Hole-particle symmetry; Law of corresponding states; Liquid; Padé approximant; *15293. SP305-7.*
- Power law; Statistical analysis; Binary liquid mixtures; Coexistence curve; Consolute point; Critically evaluated data; Critical point; Critical point exponent; Diameter; *J. Ph. Chem. Ref. Data 2, No. 3, 443-466 (1973). SP305-6.*
- Power law noise processes; Spectral density; Spectrum analysis; Fractional frequency fluctuations; Frequency stability; Phase fluctuations; *TN679. SP305-8.*
- Power lawn mowers; Safety standard; Thrown objects test; Dispersion tests; Lawn mowers; Penetration tests; *NBSIR 1022. SP305-8.*
- Power laws; Rectilinear diameter; Steam; Thermodynamic anomalies; Vapor pressure; Argon; Carbon dioxide; Class equation; Coexistence curve; Critical exponents; Critical point; Lattice gas; *11985. SP305-3.*
- Power laws; Refractive index; Scaling; Schlieren method; Specific heat; Speed of sound; X-ray scattering; Critical point; Dielectric constant; Equation of state; Homogeneous Light scattering; *14932. SP305-7.*
- Power lines; APD; Field strength; Interference; *NBSIR 74-3. SP305-6.*
- Power measurement; Adaptor; Adaptor efficiency; Adaptor evaluation; *11619. SP305-2.*

Power measurement; Bolometer; Microwave; 16504. SP305-8.  
 Power measurement; Calibration; Connectors; Mismatch;  
 Power equation; *J.75C No. 2, 89-93 (1971)*. SP305-3.  
 Power measurement; Microwave measurements; Mismatch;  
 10929. SP305-2.  
 Power measurement; Power meter; Substitution error; Bolometer  
 mount efficiency; Mismatch error; 10038. SP305-1.  
 Power measurement; Pulse circuit; Pyroelectricity; Detector cir-  
 cuits; 14733. SP305-7.  
 Power measurement; Pulse-rise-time standardization; Sampling  
 oscilloscope standardization; Spectrum analyzer standardiza-  
 tion; Termination mismatch error elimination; Thin-film  
 bolometers; Voltage measurement; BOLOVAC; *Monogr. 123*.  
 SP305-4.  
 Power measurement; Reflectometers; Waveguide joints;  
 Waveguide theory; Attenuation definitions; Attenuation mea-  
 surement; Barretter mount efficiency; Coaxial connectors;  
 Impedance measurement; Microwave network theory;  
 Mismatch errors; *Monogr. 137*. SP305-5.  
 Power measurement; Terminal invariant; Microwave measure-  
 ments; Power equation; *TN637*. SP305-5.  
 Power measurement; Voltage measurement (HF & MW);  
 Bolovac; Current measurement (HF & MW); (HF & MW);  
 Microwave currents; Microwave voltages; 11926. SP305-3.  
 Power measurement; rf; Attenuator; Directional coupler, coaxi-  
 al; 12404. SP305-4.  
 Power measurements; Coupler; Directional coupler; Directivity;  
 Impedance measurements; 11893. SP305-3.  
 Power measurements; Coupler; Directional coupler; Directivity;  
 Impedance measurements; 12070. SP305-3.  
 Power meter; Substitution error; Bolometer mount efficiency;  
 Mismatch error; Power measurement; 10038. SP305-1.  
 Power meter; 6-port junction; 16568. SP305-8.  
 Power of a graph; Graph; Hamiltonian; *J.75B Nos. 1 and 2*,  
 63-66 (1971). SP305-3.  
 Power output; Theory; Tuning curves; Collisions; Gas laser;  
 Line widths; 11811. SP305-3.  
 Power output; Theory; Tuning curves; Collisions; Gas laser;  
 Line widths; 14327. SP305-6.  
 Power savings; Refrigeration production; Tons; Amps; Con-  
 denser water; Economy; Energy input; Outside air wet bulb;  
 12798. SP305-4.  
 Power saws; Radial arm saws; Safety; Table saws; Accident  
 research; Consumer products; Injury data; Opinion survey;  
 Portable circular saws; *NBSIR 75-748*. SP305-7.  
 Power series; Schrödinger equation; Solution; Applications;  
 Generalizations; Helium; Hyperspherical coordinates; 10199.  
 SP305-1.  
 Power series coefficients; PVT; Statistical analysis; Virial coeffi-  
 cients; Density expansion; Gas thermometry; 10601. SP305-  
 1.  
 Power shift; Primary frequency standard; Cesium beam stan-  
 dard; Doppler effect; Frequency accuracy; Frequency stability;  
 13990. SP305-6.  
 Power shift; Resonance line shape; Cavity phase shift; Cesium  
 beam tube; Frequency accuracy; Frequency standard;  
*TN612*. SP305-4.  
 Power shift; Resonance line shape; Cavity phase shift; Cesium  
 beam tube; Frequency accuracy; Frequency modulation;  
 Frequency standard; 12365. SP305-3.  
 Power spectra; Pressure fluctuations; Wind loads; Wind tunnel  
 modeling; Buildings; Full-scale tests; *BSS30*, pp. 61-71.  
 SP305-3.  
 Power spectra; Pressure fluctuations; Subcritical flow; Super-  
 critical flow; Transcritical flow; Turbulence; Circular cylin-  
 ders; *BSS30*, pp. 87-91. SP305-3.  
 Power spectra; Turbulence; Wind profiles; Atmospheric bound-  
 ary layer; Gust factors; Peak values; *BSS30*, pp. 27-41.  
 SP305-3.

Power spectral density; Short- and long-term frequency stabi-  
 lity; Atomic frequency standards; 9534. SP305-1.  
 Power station equipment; Power station safety; Electrical  
 safety; Electrical supply station; Electrical utility station;  
 High voltage safety; *HI10-1*. SP305-4.  
 Power station safety; Electrical safety; Electrical supply station;  
 Electrical utility station; High voltage safety; Power station  
 equipment; *HI10-1*. SP305-4.  
 Power supplies; Radiation; Photostimulation; 11276. SP305-2.  
 Power supply; Preregulator; Regulation factor; Ripple voltage;  
 Transistor; Voltage regulation; Zener diode; D-C amplifier;  
 Design equations; Differential amplifier; Dual regulator; In-  
 tegrated circuit; Output resistance; Power dissipation; *TN371*.  
 SP305-1.  
 Power supply oscillator; Stable ac supply; Voltage monitor; Ab-  
 solute volt experiment; Feedback control system; Power am-  
 plifier; 14053. SP305-6.  
 Power transistors; Reliability; Thermal hysteresis; Thermal re-  
 sistance; Thermographic measurements; Transistor screening;  
 Current constriction; DC current gain; Hot-spot screening;  
 Methods of measurement; 12474. SP305-4.  
 Power transistors; Safe operating area; Second breakdown;  
 Thermal instability; Base widening; Current crowding; Hot  
 spots; 16451. SP305-8.  
 Power transistors; Thermal impedance measurements; Thermal  
 response measurements; Transistors (thermal measurements);  
 Computer simulation (transient thermal); Current crowding  
 (transistors); 14616. SP305-6.  
 Power transistors; Thermal impedance measurements; Thermal  
 response measurements; Transistors (thermal measurements);  
 Computer simulation (transient thermal); Current crowding  
 (transistors); 14963. SP305-7.  
 Power transistors; screening; Screening for hot spots,  
 transistors; Thermal hysteresis, transistors; Transistors, hot  
 spot detection; Current gain, hot spot detection; Hot spots,  
 current gain as indication of; 13219. SP305-5.  
 Power transmission; Cryogenic; High-speed ground transporta-  
 tion; Magnetic levitation; 13039. SP305-4.  
 Power transmission; Propulsion systems; Superconducting  
 devices; Superconducting magnets; Superconductivity; Elec-  
 trical machinery; Land transportation; 14175. SP305-6.  
 Power transmission; Refrigeration; Superconducting cables;  
 Cryogenics; Helium pump; 15455. SP305-7.  
 Power transmission cables; Safety; Slush hydrogen; Supercon-  
 ducting; A.c. power; Cryoresistive; Energy transmission  
 economics; Helium; Hydrogen energy; Liquid hydrogen;  
 Liquid nitrogen; 16629. SP305-8.  
 Power-factor; Quadrature; Three-voltmeter method; Wattmeter;  
 Opamp; Phase-sensitive detector; 12848. SP305-4.  
 Power-factor; Quadrature; Three-voltmeter method; Wattmeter;  
 Phase-sensitive detector; 13047. SP305-4.  
 Powers; Free groups; 13761. SP305-5.  
 Powers of graphs; Combinatorics; Connectivity; Euler graphs;  
 2-factors; Graph theory; Hamiltonian circuits; Hamiltonian  
 connected; *J.77B Nos. 1 and 2, 1-10 (1973)*. SP305-5.  
 Ppb; Ppm; Real samples; Standard Reference Materials; Trace  
 element analysis; Accuracy limits; Activation analysis; Ac-  
 tivation spectrometry; Analytical chemistry; Measurement  
 biases; 14425. SP305-6.  
 Ppm; Real samples; Standard Reference Materials; Trace ele-  
 ment analysis; Accuracy limits; Activation analysis; Activa-  
 tion spectrometry; Analytical chemistry; Measurement biases;  
 Ppb; 14425. SP305-6.  
 P-Q curves; Two-tube electrostatic lens; Electric field; First-  
 order focal properties; Paraxial electron trajectories; 12665.  
 SP305-4.  
 P-Q curves; Two-tube electrostatic lens; Ultra-focal refraction;  
 Electron trajectories; Focal properties; 14200. SP305-6.  
 Pr III; Spectrum; Line classifications; Praseodymium; *J.78A No.*  
*5, 555-593 (1974)*. SP305-6.

- Practical samples; Radiochemistry; Trace analysis techniques; Accuracy error limits; Activation analysis; Atomic absorption; Instrument biases; Isotope-dilution; Method biases; Nuclear track technique; 13763. SP305-5.
- Practical-scale differences; Temperature-scale conversion; Thermodynamic properties; Existing property tables; IPTS-48; IPTS-68; *J.73A No. 5, 451-470 (1969)*. SP305-1.
- Pragmatism; Research priorities; Weights and measures; Benefit-cost; History; Peirce; Philosophy; 10203. SP305-1.
- Prandtl number; Oxygen; Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; *TN384*. SP305-3.
- Prandtl number; Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; *TN617*. SP305-4.
- Prandtl number; Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; *TN648*. SP305-6.
- Prandtl number; Specific heats; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; *TN631*. SP305-5.
- Prandtl number; Specific heats; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; *TN622*. SP305-4.
- Praseodymium; Pr III; Spectrum; Line classifications; *J.78A No. 5, 555-593 (1974)*. SP305-6.
- Praseodymium; Precipitation; Radioactive; Rapid separation; Solvent extraction; Cerium; Linac; 10387. SP305-1.
- Praseodymium; Promethium; Rhenium; Rubidium; Sodium; Surface diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; *J. Phys. Chem. Ref. Data 4, No. 1, 177-250 (1975)*. SP305-7.
- Praseodymium; Promethium; Samarium; Terbium; Thulium; Ytterbium; Cerium; Dysprosium; Erbium; Europium; Gadolinium; Hafnium; Holmium; Ionization energy; Lanthanum; Lutetium; Neodymium; 13703. SP305-5.
- Praseodymium; Rare earth; Sliding spark discharge lamp; Spectrum; Atomic energy levels; Isoelectric sequence; *J.71A-6-474, 583-585 (1967)*. SP305-3.
- Praseodymium; Spectra; Wavelengths; 12257. SP305-3.
- Praseodymium; Third spectrum; Vacuum ultraviolet; Wavelengths; Energy levels; Interaction parameters; *J.73A No. 3, 333-381 (1969)*. SP305-1.
- Praseodymium compounds; Promethium compounds; Rare earth elements; Samarium compounds; Terbium compounds; Thulium compounds; Ytterbium compounds; Cerium compounds; Dysprosium compounds; Enthalpy; Entropy; Erbium compounds; Europium compounds; *TN270-7*. SP305-5.
- Praseodymium oxide; Single crystal; Terbium oxide; Higher oxides; Hydrothermal crystal growth; Oxide structures; *SP364*, pp. 343-351. SP305-4.
- Praseodymium-142; Thulium-170; Barium-140; Iron foils; 11693. SP305-2.
- PrCl<sub>3</sub>; Antiferromagnet; NMR; NQR; Nuclear spin-spin relaxation; Nuclear spin-lattice relaxation; 11382. SP305-2.
- PrCl<sub>3</sub> (praseodymium trichloride); Temperature measurement; Heat capacity; Magnetic entropy; Magnetic susceptibility; NdCl<sub>3</sub> (neodymium trichloride); 9923. SP305-1.
- PRD-49; Reinforced aluminum; Reinforced plastics; Structural composites; Tensile moduli; Tensile strength; Thermal conductivity; Thermal contraction; Boron; Cryogenics; Glass; Graphite; Literature review; 15745. SP305-8.
- Precambrian; Wyoming; Correlation; Geochronology; Geology; Montana; 9627. SP305-1.
- Precast concrete; Concrete panels; Connections; Ductility; Floor diaphragms; Housing systems; Insert connectors; Operation BREAKTHROUGH; 13390. SP305-5.
- Precast concrete; Production capacity; Production management; Production methods; Standardization; United Soviet Socialist Republics; Building economics; Building systems; Construction industry; Housing; *SP334*. SP305-3.
- Precast concrete; Structural design; Building system; Column connection; Concrete triaxial strength; Ductility; Neoprene bearing pad; Operation BREAKTHROUGH; Performance tests; 13401. SP305-5.
- Precast concrete; Structural design; Building system; Column connection; Concrete triaxial strength; Ductility; Neoprene bearing pad; Operation Breakthrough; Performance test *TN811*. SP305-6.
- Precast concrete construction; Progressive collapse; Structural connection; Structural design; Wind load; Design standards; Earthquake load; Masonry construction; 15369. SP305-7.
- Precast concrete construction; Progressive collapse; Structural design; Structural joints; Building systems; Housing systems; Large-panel structures; *NBSIR 75-715*. SP305-7.
- Precatastrophic damage; Pulse dynamics; Reflection; Rub laser; Surface damage; Temporal pulse monitoring; Transmission; 0.694  $\mu$ m; Back-scattering; *SP414*, pp. 179-189. SP305-6.
- Precipitate particles; Thermomechanical treatment; Cavities; Cellular solidification; Constitutional supercooling; Copper (99.999%); Dislocation arrangements; Distribution of impurities; 12339. SP305-3.
- Precipitates; Stress corrosion cracking; Aluminum alloys; Corrosion; Dislocations; Electron microscopy; 11687. SP305-2.
- Precipitates; Transmission microscopy; Aluminum alloys; Halos; Saline water corrosion; Oxide films; 12315. SP305-3.
- Precipitation; Alloys; Copper; Crystallography; Iron; Mössbauer effect; 12866. SP305-4.
- Precipitation; Radiation damage; Dislocation loops; Electron microscopy; Magnesium fluoride; Point defects; 9548. SP305-1.
- Precipitation; Radioactive; Rapid separation; Solvent extraction; Cerium; Linac; Praseodymium; 10387. SP305-1.
- Precipitation; Solar radiation; Temperature; Wind direction; Wind speed; Air contamination; Design condition; Earthquake risk; Evaluation; Ground temperature; Humidity; Noise level; Operation BREAKTHROUGH; 13398. SP305-5.
- Precipitation; Spinodal decomposition; Age hardening; Copper; Titanium; Dia; Metastable solvus; Microstructural sequence method; Nucleation; Ordering; 15053. SP305-7.
- Precipitation hardening; Activation energy; Cross slip; Mechanical properties; Misfit strain; *SP317*, pp. 1115-113. SP305-3.
- Precipitation hardening; Computer simulation; Dislocation motion; Mechanical properties; *SP317*, pp. 1083-1098. SP305-3.
- Precipitation hardening; Thermal activation; Arrhenius law; Mechanical properties; *SP317*, pp. 1077-1082. SP305-3.
- Precipitation hardening steel; Secondary hardening steel; Tempering; Through hardening steel; Ceramic; Cermets; Dimensional stability; Gage blocks; Length standards; 11223. SP305-2.
- Precipitation kinetics; Aggregation; Collagen; Fibril; Hydrophobic bonding; Native-type fibril formation; Phase transition; 14245. SP305-6.



Precision; Sensitive; Contour; Displacement; Distance; Distance-measurement; Field emission; Instrument; Measurement; Micrometer; 10141. **SP305-1.**  
 RECISE; Triple-precision; User's manual; Double precision; Elementary functions; Equation solver; Linear equation solver; Magnetic tape utility program; Multiple-precision computing; Multiple-precision programming; *TN446*. **SP305-1.**  
 Precision analysis; Thermal ionization; Uranium; Isotopes; 10069. **SP305-1.**  
 Precision dielectric measurements; Standard dielectric; Standard of dielectric constant; Standard reference materials; Dielectric constant standards; Fluorinated ethylene-propylene; Fluorinated polymers; 10975. **SP305-2.**  
 Precision electrical measurements; Absolute measurements; Electrical reference standards; Electrical units; 9771. **SP305-1.**  
 Precision electrical measurements; Superconductivity; Fundamental constants; Josephson effect; 13517. **SP305-5.**  
 Precision heat capacities; Annealed sample; Atactic polystyrene; Entropy increment; Entropy increment; Glass; Glass transformation; Heat capacity calorimetry; Literature values; Narrow molecular weight distribution; 10519. **SP305-1.**  
 Precision measurements; Superconductivity; Electronics; Josephson effect; *TN630*. **SP305-5.**  
 Precision measurements; Superconductivity; Electronics; Josephson effect; 14971. **SP305-7.**  
 Precision Time and Time Interval (PTTI); Time; Time coordination; Time interval; Time scales; Treaty of the Meter (standards); U.S.A. standard time zones; USNO time and frequency; Astronomical time measurements; Clock synchronization; Clocks; *TN649*. **SP305-6.**  
 Precision time metrology; Submicrosecond time difference measurements; Time stability; Atomic clocks; Frequency measurements; Frequency stability; Phase delay; 15684. **SP305-7.**  
 Precision time receiver; Precise timing; Time code receivers; VLF timing; Multiple frequency timing; Omega time code; 12531. **SP305-4.**  
 Precision timing; Time code receivers; VLF timing; Multiple frequency timing; Omega time code; Precise time receiver; 12531. **SP305-4.**  
 Precision; Accuracy; Atomic spectroscopy; Atomic vapor; Chemical analysis; Evaluation; Interferences; Light sources; 14888. **SP305-7.**  
 Precision; Accuracy; Calcium in serum; Clinical testing; Interlaboratory comparisons; 14108. **SP305-6.**  
 Precision; Accuracy; Clinical analysis; Clinical chemistry; Health; *SP422*, pp. 837-850 (Aug. 1976). **SP305-8.**  
 Precision; Accuracy; Error analysis; Instrument errors; Measurement errors; 13063. **SP305-5.**  
 Precision; Accuracy; Measurement principles; 9912. **SP305-1.**  
 Precision; Antenna; Attenuation; Comparator; Current; Phase; 9536. **SP305-1.**  
 Precision; Bond method; Generalization of silicon; Lattice; parameter of; Lattice parameters; 15945. **SP305-8.**  
 Precision; Precision of analytical method; Ultratrace level; Accuracy; Analysis of precision; *a priori* error; *a priori* precision; *a posteriori* precision; Chi-square test; *SP422*, pp. 127-139 (Aug. 1976). **SP305-8.**  
 Precision; Precision of measurement; Repeatability; Reproducibility; Test methods; Transformations; Weighting; Interlaboratory comparisons; Invariance; Models; 15909. **SP305-8.**  
 Precision; Production of atomic vapor; Zinc; Accuracy; Atomic fluorescence; Automatic scatter correction; Cadmium; Chemical interferences; Data evaluation; 15012. **SP305-7.**  
 Precision; Proficiency testing; Accuracy; CLIA '67; Clinical chemistry; Hematology; Microbiology; 13564. **SP305-5.**  
 Precision; Propagation of error; Standard deviation; Statistical concepts; Control chart; Data analysis; Measurement process; Metrology; 11797. **SP305-2.**  
 Precision; Puerto Rico; Replicates; Sediments; Standard; Trace elements; Accuracy; Atomic Absorption Spectrometry; Caribbean; *SP422*, pp. 1089-1102 (Aug. 1976). **SP305-8.**  
 Precision; Quality control; Systematic error; Youden plot; Analytical performance; Between-run; Calibration; *SP422*, pp. 141-150 (Aug. 1976). **SP305-8.**  
 Precision; Quantitative analysis; Solids; Spark source; Trace elements; Fluctuations; Homogeneity; Ion sensitive emulsion; Mass spectrometry; 12127. **SP305-3.**  
 Precision; Quartz crystal oscillators; Radio T/F dissemination; Rb frequency standards; Satellite T/F dissemination; Short-term stability; SI Units; TAI; Television T/F dissemination; Thallium beam standards; Time; Time dispersion; Time domain; *Monogr. 140*. **SP305-6.**  
 Precision; Radiation detection; Accuracy; Errors in activation analysis; 15472. **SP305-7.**  
 Precision; Radio frequency; Coaxial; Connectors; Immittance; Lumped-parameter; Measurement; 9815. **SP305-1.**  
 Precision; Radioactivity standards; Standards accuracy; Certificates; Combination of errors; Commercial standards; Measurements; 9732. **SP305-1.**  
 Precision; Radiochemical separations; Silver; Accuracy; Activation analysis; Copper; Gold; Hafnium; Palladium; Platinum; *SP422*, pp. 1157-1164 (Aug. 1976). **SP305-8.**  
 Precision; Reactor; Selectivity; Semimicro; Sensitivity; Accuracy; Activation analysis; Element; Generator; Micro; 13030. **SP305-4.**  
 Precision; Rectifier; Transfer; AC; DC; Operation; *J.73C Nos. 3 and 4*, 47-55 (1969). **SP305-1.**  
 Precision; Referee methods; Specificity; Standard reference materials; Accuracy; Analysis; Clinical chemistry; Measurement; 14209. **SP305-6.**  
 Precision; Reference method; Specificity; SRM; Standard reference material; Systematic error; Certification; Meaningful measurement; Measurement; Measurement system; *Monogr. 148*. **SP305-7.**  
 Precision; Reference methods; Standard reference material; Systematic errors; Accuracy; Accurate measurement system; *SP422*, pp. 41-63 (Aug. 1976). **SP305-8.**  
 Precision; Regression line; Scheduling measurements; Statistical design of experiments; Systematic error; Youden's burette experiment; Accuracy; Analysis of variance; Measurement process; 12527. **SP305-4.**  
 Precision; Relative sensitivity; Sample homogeneity; Solids; Statistics; Background; Electrical detection; Electrical discharge; Ion probe; Ion sensitive plates; Mass spectrometry; Pelletizing; 10814. **SP305-1.**  
 Precision; Reliability; Reproducibility; Standards; Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; Foil paper; Instrument characteristics; Materials testing; 11706. **SP305-2.**  
 Precision; Repeatability; Reproducibility; Test methods, evaluation of; Interlaboratory testing; 12333. **SP305-3.**  
 Precision; Repeatability; Reproducibility; Accuracy; Acoustics; Noise; 14866. **SP305-7.**  
 Precision; Replicate; Spark; Spectrometry; Accuracy; Circumvention; Emulsions; Homogeneity; Ions; Mass; Platinum; 11847. **SP305-3.**  
 Precision; Rotary vane; Attenuator; Microwave; *J.75C No. 1*, 1-5 (1971). **SP305-3.**  
 Precision; Round-robin experiments; Trace element analysis; Accuracy; Activation analysis; Air filter analysis; Analytical quality control; Atomic absorption spectrometry; Environmental analysis; Fresh water analysis; Intercomparisons; *SP422*, pp. 189-197 (Aug. 1976). **SP305-8.**  
 Precision; Run statistics; Security; Terminology; Validation; Warranty; Accuracy; Audit; Certification; Code-independent; Documentation; Optimization; *SP406*, pp. 141-144. **SP305-7.**  
 Precision; Sample rotator; 14 MeV neutrons; Accuracy; Activation analysis; Design; Oxygen; 10576. **SP305-1.**

- Precision; Scanning; Stability; Standard; Wavelength; Fringe; Interferometer; Laser; Optical; Photoelectric; 9942. SP305-1.
- Precision; Sensitivity; Tables; Accuracy; Atomic absorption; Detection limits; Differential method; Flame emission; Nonaqueous media; 12111. SP305-3.
- Precision; Similar gamma-ray energy; Standard Reference Materials; Trace; Accuracy; Activation; Analysis; Decay curve resolution; Gamma-ray attenuation; Geometrical location; Neutron; Neutron self-shielding; 10078. SP305-1.
- Precision; Small specimens; Density measurement; Hydrostatic; 12595. SP305-4.
- Precision; Standard error; Systematic error; Uncertainty; Accuracy; Calibrations; Expression of uncertainty; Measurements; 10544. SP305-1.
- Precision; Standard error; Systematic error; Uncertainty; Accuracy; Calibrations; Expression of uncertainty; Measurements; 11029. SP305-2.
- Precision; Standards; Test methods; Accuracy; Paper; 11038. SP305-2.
- Precision; Statistical concepts in measurements; Systematic error; Accuracy; Analysis of measurement data; Design of experiments; Functional relationships; Interlaboratory tests; Measurement process; SP300, Volume 1. SP305-1.
- Precision; Statistical control; Uncertainty; Accuracy; Mass measurement; Measurement; Measurement process; *Mono*. 103. SP305.
- Precision; Surface roughness; Art; Clinical chemistry; Fire services; High-accuracy mass spectrometry; Materials failure; Night vision; *DIM/NBS* 57, No. 9, 201-224 (1973). SP305-5.
- Precision; Synchronous detector; Attenuator; Differential flame emission; Phase shifter; 11429. SP305-2.
- Precision; Tests; Wagner turbidimeter; Air-permeability; Cements; Fineness; No. 325 sieve; Portland cements; 13855. SP305-6.
- Precision; Therapy; TLD; Dosimetry; Ion chamber; Patient; SP456, pp. 343-350 (Nov. 1976). SP305-8.
- Precision; Trace element analyses; Accuracy; Blood lead analyses; Clinical chemistry; Industrial lead hygiene; Interlaboratory correlations; Lead hygiene control; Occupational exposure standard criteria; Occupational health control; SP422, pp. 275-282 (Aug. 1976). SP305-8.
- Precision; X-ray fluorescence; Accuracy; Atomic absorption; Environment; neutron activation analysis; SP422, pp. 239-245 (Aug. 1976). SP305-8.
- Precision accuracy; Test methods; Interlaboratory studies; Measurement; 14280. SP305-6.
- Precision admittance standards; Precision capacitance measurements; Transformer bridges; Transformer ratio measurements; Two-pair admittances; Ac DRRS; Coaxial cable effects; Coaxial star connectors; Extrapolation techniques; Four-pair admittances; Permutation techniques; 14924. SP305-7.
- Precision and accuracy of timing; Time coordination, synchronization, and dissemination; UTC(NBS); AT(NBS); Clock dispersion; Clock ensemble; Frequency and time standards; International Atomic Time; Loran-C; Model of clock stability; Optimum time prediction; 13998. SP305-6.
- Precision attenuator; Sensor; Waveguide-below-cutoff; Absolute (unambiguous) readout; Piston; *NBSIR* 74-394. SP305-7.
- Precision attenuator; Sensor; Waveguide-below-cutoff; Absolute (unambiguous) readout; Piston; *NBSIR* 76-833. SP305-8.
- Precision audiofrequency signal generation; Precision FM signal generation; Precision phase angle generation; Radio navigation; VOR; Aircraft navigation systems; Digital frequency synthesis; National standards; 16530. SP305-8.
- Precision capacitance measurements; Transformer bridges; Transformer ratio measurements; Two-pair admittances; Ac DRRS; Coaxial cable effects; Coaxial star connectors; Extrapolation techniques; Four-pair admittances; Permutation techniques; 14924. SP305-7.
- Precision coaxial measurements; RF connector; Coaxial techniques; 9381. SP305.
- Precision connector; Terminal invariant; Attenuation; Impedance; Microwave power; *Monogr.* 112. SP305-1.
- Precision electromagnetic measurements; Standards laboratories; Measurement system; National standards laboratories 9874. SP305-1.
- Precision equipment; Surface hardened; Temporal dimensionality; Ultrastability; Gage blocks; Maraging steel; Nitriding; 11596. SP305-2.
- Precision FM signal generation; Precision phase angle generation; Radio navigation; VOR; Aircraft navigation systems; Digital frequency synthesis; National standards; Precision audiofrequency signal generation; 16530. SP305-8.
- Precision frequency measurements; Precision time measurements; Time difference measurements; Time-domain frequency stability; Time interval; Frequency measurement; Frequency mixing; Global positioning system; Isolation amplifiers; Low-noise amplifiers; *NBSIR* 75-827. SP305-8.
- Precision interferometry; Crab pulsar; Gravitational waves; Laser strainmeter; 13673. SP305-5.
- Precision ionization gauges; Stable vacuum systems; Transmission probability; Vacuum calibration; Vacuum measurements; Clausius factors; Free molecular flow; 13143. SP305-5.
- Precision manometer; Pressure;  $p$ - $t$  relation;  $p$ - $t$  relation of water; Standard resistance thermometers; Temperature; Vapor pressure; Vapor pressure of water; Water; Manometer 1.73A No. 5, 493-496 (1969). SP305-1.
- Precision Measurement Equipment Laboratories (PMEL) Technician skills; U.S. Air Force; Audit examinations; Audit package; SP335, pp. 105-109. SP305-3.
- Precision measurements; Conference; Conference on Precision Electromagnetic Measurements; Electromagnetic measurements; Measurements; 10188. SP305-1.
- Precision measurements; Fundamental constants; Least square adjustments; 12221. SP305-3.
- Precision measurements; Fundamental constants; Least square adjustments; SP343. SP305-3.
- Precision measurements; Radio star; Satellite communication; Error analysis; G/T; *NBSIR* 76-842. SP305-8.
- Precision measurements; Random noise; Reasonable perturbations; Spectral density; 1/f noise; Flicker noise; Low frequency noise; Mechanical model; Modulation noise; Noise; Noise model; Noise simulation; 10555. SP305-1.
- Precision measurements; Ratio; Resistor; Four-terminal; Resistance decade; Transresistance; URS (universal ratio set VERI (versatile ratio instrument); DRRS (direct reading ratio set); Junction; 1.70C3-228, 169-172 (1966). SP305.
- Precision measurements; Refractive indices; Surface plate testing; Temperature measurement; Wavelength measurements; Double stars, measurement; Expansion measurements; Let and mirror testing; Optical engineering; Optical surface 10599. SP305-1.
- Precision measurements; Standards; Coaxial; Connector; Microwave; 12670. SP305-4.
- Precision mercury manometer; Triple point of water; Vapor pressure of water; 16096. SP305-8.
- Precision mercury manometer; Triple point of water; Vapor pressure of water; *J. Res.* 80A No. 3, 505-521 (1976). SP305-8.
- Precision of analytical method; Ultratrace level; Accuracy; Analysis of precision; *a priori* error; *a priori* precision; *posteriori* precision; Chi-square test; Precision; SP422, p. 127-139 (Aug. 1976). SP305-8.
- Precision of measurement; Repeatability; Reproducibility; Test methods; Transformations; Weighting; Interlaboratory comparisons; Invariance; Models; Precision; 15909. SP305-8.

precision oscillator; Rf spectrum; Spectral density of phase fluctuations; Spectral purity; Frequency multiplication; Linewidth; Multiplier chain; 15675. SP305-7.

Precision phase angle generation; Radio navigation; VOR; Aircraft navigation systems; Digital frequency synthesis; National standards; Precision audiofrequency signal generation; Precision FM signal generation; 16530. SP305-8.

Precision scanning (of micrographs); Quantitative microscopy; Analysis of microstructures; Automatic scanning (of micrographs); 12416. SP305-4.

Precision scanning (of micrographs); Quantitative microscopy; Analysis of microstructures; Automatic scanning (of micrographs); Computer processing (of micrographs); Logical modification of pictures; 10693. SP305-1.

Precision scanning (of micrographs); Quantitative microscopy; Stereological analysis; Automatic scanning (of micrographs); Computer processing (of micrographs); Logical modification of pictures; 10255. SP305-1.

Precision scanning (of micrographs); Quantitative microscopy; Analysis of microstructures; Automatic scanning (of micrographs); Computer processing (of micrographs); Logical modification of pictures; 11237. SP305-2.

Precision solenoid; Fine structure constant; Gyromagnetic ratio of proton; Nuclear induction; 13969. SP305-6.

Precision time; Time broadcasts; Time code; VLF timing; Omega; 13436. SP305-5.

Precision time measurements; Time difference measurements; Time-domain frequency stability; Time interval; Frequency measurement; Frequency mixing; Global positioning system; Isolation amplifiers; Low-noise amplifiers; Precision frequency measurements; NBSIR 75-827. SP305-8.

Precision timing; Simultaneous reception; Synchronization; Time transfer; Accurate time dissemination; Optical pulsars; 12959. SP305-4.

Precision transfer standards; Coaxial thermistor mounts; 16651. SP305-8.

Precision transmission line; Reflection coefficient; Sliding short; Coaxial cavity tuning; Coaxial short; 11307. SP305-2.

Compiler; Quality software; Structural programming; Block structure; Control flow; GOTO-less programming; Language design; 14916. SP305-7.

Preconcentration; Pulse height analyzer; Spectrochemical analysis; Spectroscopy; Standard reference materials; Time-shared computer; X-ray spectroscopy; Analysis; Arc temperature; Atomic absorption spectrometry; Analog computer; Bibliography; Computer; TN401. SP305.

Preconcentration; Radioactive tracers; River water; Trace elements; Tracers; Water; Freeze drying; Instrumental neutron activation analysis; Lyophilization; Neutron activation analysis; 15376. SP305-7.

Preconcentration; Selenium analysis; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Sulfur analysis; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; Vacuum spectrometer; Computing; TN422. SP305-1.

Preconcentration; Silicon detector; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; X-ray mass attenuation coefficients; Zinc analysis; TN452. SP305-1.

Preconcentration; Spark source mass spectrometry; Trace element; Ingot iron; Isotope dilution; NBS standard reference material; 11704. SP305-2.

Preconcentration; Spark source mass spectrometry; Trace elements; Zinc; Electrodeposition; Isotope dilution; 11514. SP305-2.

Preconcentration; Spark source mass spectrometry; Steel; Trace elements; Isotope dilution; NBS Standard Reference Material; 15889. SP305-8.

Preconcentration; Trace elements; Activation analysis; Adsorption isotherm; Environmental samples; Mercury; SP422, pp. 669-699 (Aug. 1976). SP305-8.

Preconcentration techniques; Spark source mass spectrometry; Spectrochemical analysis; Spectrograph; Standard reference materials; Steel analysis; Target current scanning; Trace analysis; X-ray absorptiometry; X-ray fluorescence analysis; X-ray scans; TN502. SP305-2.

Pre-concentration techniques; Spectrochemical analysis; Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electron probe; Microanalysis; Optical spectrometry; TN582. SP305-4.

Pre-concentration techniques; Spectrochemical analysis; Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electron probe; Microanalysis; Optical spectrometry; TN542. SP305-2.

Precondensates; Radiation grafting; Antimony oxide; Bromine; Bromine flame retardants; Calorimetry; Cotton; Cotton/polyester; ETIP; Fabric flammability; Flame retardant mechanisms; Flame retardant monomers; Flame retardants; Hand modifiers; NBS-GCR-ETIP 76-22. SP305-8.

Precoordination; Standards; Building; Components; BSS32. SP305-3.

Predictability; Requirements; Variables; Workload; Computer system; Factors; Measurement; Parameters; Performance; Performance terminology; SP406, pp. 53-60. SP305-7.

Predicted indoor habitability index; Air conditioning criteria; Building thermal response; Comfort indices; Human comfort; BSS71. SP305-7.

Predicted indoor habitability index (PIHI); Weather building human systems; Air conditioning criteria; Human comfort; Physiological indices; 16152. SP305-8.

Predicted spectra; Radio astronomy; Silicon molecules; Structures; Unidentified molecular lines; Microwave spectra; 14867. SP305-7.

Predicted thermodynamic parameters; Gas solubility; Hard-sphere model; Liquefied gases; Phase equilibria; 11989. SP305-3.

Predicting leak rates; Seal leakage; Valve seat leakage; Leak detection; Leak flow rates; Leak rates; Leakage through valves; TN355. SP305.

Predicting product reliability; Design engineering; Material deterioration; Mechanical failure; Mechanical integrity; Mechanical reliability; Performance envelope; SP423, pp. 199-208 (Apr. 1976). SP305-8.

Prediction; Rotation of the earth; Coordinated Universal Time; Offset frequency; 10310. SP305-1.

Prediction; Statistical analysis; Bail; Criminal justice; Dangerousness; Data collection; 14665. SP305-6.

Prediction interval; Primary standard and clocks; Accurate and uniform time scale; Allan variance; Dispersion of time scale; Ensemble time (error); TN626. SP305-5.

Prediction of transport data; Thermal conductivity; Transport first density corrections; Excess transport property; Modified Enskog theory; 13234. SP305-5.

Prediction research; Pre-trial release; Preventive detention; Recidivism; Statistical relationships; Bail; Criminal court data; Criminal justice system; Dangerousness; Data collection problems and procedures; District of Columbia; Judicial system; TN535. SP305-2.

Predictive technique; Building system analysis; Design; Innovation; Mathematical model; SP361, Vol. 1, pp. 249-253. SP305-4.

Predictive testing; Structures; Combined environments; Components; Material performance; SP336, pp. 403-404. SP305-3.

Predictor-corrector method; Two-tube electrostatic lens; Calculation of electric fields; Calculation of electron trajectories; Electron lens; Nine-point relaxation formulas; J.76A No. 1, 27-35 (1972). SP305-4.

- Predissociation; Quantum mechanics; Resonance scattering; Theoretical; Unimolecular dissociation; Activated complex; Activated molecules; Activated state; Decay; Dissociation; High pressure rate constant; Kinetics; Lifetime; Mass spectra; 9366. SP305.
- Predissociation; Quantum mechanics; Resonance scattering; Scattering theory; Unimolecular kinetics; Absolute rate theory; Association; Configuration interaction; Optical potential; 11401. SP305-2.
- Predissociation; Quenching;  $\text{SO}_2$ ; Fluorescence; 12507. SP305-4.
- Predissociation; Radiative recombination;  $^5\Sigma_g^+$ ; Electronic structure; Energy curve;  $\text{N}_2$ ; 16442. SP305-8.
- Predissociation; Rydberg states; Ammonia; Appearance potential; Autoionization; Deuterated states; Enthalpy of formation; Ionization potential;  $\text{NH}_2^+$ ;  $\text{OH}^+$ ; Photoionization; 16539. SP305-8.
- Predissociation; Rydberg states; Valence states; Ion-pair;  $\text{O}_2$ ; Photodissociation; 15611. SP305-7.
- Predissociation; Schumann-Runge bands; Spin-orbit mixing; Molecular oxygen; 16596. SP305-8.
- Predissociation; Spin conservation rules; Vacuum ultraviolet; Bond energy; Fluorescence; Photodissociation; 14143. SP305-6.
- Predissociation; Spin-orbit matrix elements; Ab initio calculation; Level shifts; Line broadening; Molecular oxygen; 15055. SP305-7.
- Predissociation; Vibrational overlap; Born-Oppenheimer; Hartree-Fock; Molecular hydrogen; Partial widths; Potential curve; 12102. SP305-3.
- Predissociation widths; Interstellar clouds; Interstellar molecule formation; Inverse predissociation; Non-adiabatic mixing; OH radiative association rate; 12457. SP305-4.
- Pre-exponential factor; Pyrolysis; Single pulse shock tube; 3,3-dimethylpentane; 3,4-dimethylpentene-1; 2,3,3-trimethylpentane; Bond energy; Decomposition; Free radicals; Heat of formation; Hydrocarbon; Isobutylbenzene; 11169. SP305-2.
- Preexponential factor; Stability of polymers; Thermogravimetric analysis; Variation of the activation energy; Calculation of kinetic parameters; Determination of activation energies; 9192. SP305.
- Prefabricated construction; Standards; State-local relationship; State regulations; Building codes; Factory-built housing; Industrialized building; Inspection; Manufactured building; Model codes; Model documents; NCSBCS; On-site construction; NBS-GCR-74-27. SP305-8.
- Prefabricated door units; Wood door units; Door units, wood; Hinged door units, interior; PS32-70. SP305-3.
- Prefabricated dwelling; Standards; Structural design; Earthquake; Housing; Performance specification; SP444, pp. IV-55-IV-69 (Apr. 1976). SP305-8.
- Prefabricated manholes; Restrained piping; Accesses; Ball joints; Concrete manholes; Expansion joints; Expansion loops; O-ring gaskets; BSS66, pp. 60-72. SP305-7.
- Prefabricated sheets; Radiative cooling; Roofing research; Solar heating; Liquid-applied coatings; Membrane movements; 9432. SP305.
- Prefabricated steel conduit; Qualified Products List; Tieline; Condensate return; Epoxy; Fiberglass reinforced plastic; Filament-wound; Insulated; Molded; Morpholine; BSS66, pp. 88-101. SP305-7.
- Prefabrication; Zoning; Building codes; Building laws and regulations; Building materials—testing and evaluation; Building systems; Industrialized housing; Mobile homes; Modular construction; NBS-GCR-73-19. SP305-8.
- Preference; Pure tones; Acoustic navigation aids; Applied psychoacoustics; Applied psychology; Aversiveness; Foghorns; 14821. SP305-7.
- Preference; Rendition of color; Color; Flattery; Illuminants; 10375. SP305-1.
- Preference scaling; Scaling; User evaluations; Visual environment; Color schemes; Field studies; Glare; Illuminance; Matrix analysis; Multidimensional scaling; Performance criteria; SP361, Vol. 1, pp. 121-129. SP305-4.
- Preferential oxidation; Temperature gradient; Thermal gradient; Thermocouple; Thermoelectric stability; Aging; Calibrating change; Gradient; High temperature (700 to 2000 °C); Iridium; Iridium-rhodium alloy; Noble-metal thermocouple; Oxidation; Platinum; 16158. SP305-8.
- Preferred orientation; Pyrolytic graphite; Magnetic susceptibility; Orientation function; 14029. SP305-6.
- Preferred orientation; Stress corrosion; Aluminum alloy; Corrosion; Directional effects; Grain morphology; 11839. SP305-2.
- Prefinished hardboard paneling; Hardboard paneling; Paneling hardboard; PS59-73. SP305-6.
- Preliminary analysis; Specimen decomposition; Specimen evaporation; Plasma spectrometry; SP422, pp. 621-625 (Aug. 1976). SP305-8.
- Preliminary extrudate; Test extrudate; Extrusion plastometer; Load; Melt flow rate; Orifice; Orifice die; J76A No. 2, 14, 146 (1972). SP305-4.
- Premelting;  $\text{Al}_2\text{O}_3$ ; Dissociation; Environmental effects; Melting point; J71A4-463, 317-333 (1967). SP305.
- Premelting; Thermodynamic properties; Drop calorimetry; Enthalpy data; Lithium beryllium fluoride; Lithium tetrafluoroberyllate; J73A No. 5, 479-485 (1969). SP305-1.
- Premelting; Thermodynamics; Electrical resistivity; High-speed methods; High temperature; Melting point; Metals; Molybdenum; 12231. SP305-3.
- Premelting correction; Purity; Smoothing of observations; The thermodynamic properties; Thermodynamics; Thermometry; Time; Vaporization correction; Adiabatic calorimetry; Calorimeters; Calorimetry; Cryoscopy; Cryostats; Curvature correction; 11189. SP305-2.
- Preoxidation; Salt stress corrosion; Solid state reactions; Stress corrosion cracking; Titanium 8-1-1 alloy; Corrosion product; High temperature corrosion; 9901. SP305-1.
- Preparation; Purity; Sampling; Standard sample; Volatile content; Ash content; Elemental analysis; Homogeneity; Lithium content; Molecular weights; Polymer; J71A1-435, 43-1 (1967). SP305.
- Preparation; Ranges of homogeneity; Stability; Systems; Analysis; Hybrid phase; Intergrowth phase; Niobium pentoxide; SP364, pp. 63-86. SP305-4.
- Preparation; Research; Chemical properties; Composites; Gases; Glasses; Liquids; Multiphase materials; Physical properties; Polycrystals; SP333. SP305-2.
- Preparation; Spectra; Study; Infrared; Inositol; Osotriazole; Parabromophenyl; 12450. SP305-4.
- Preparation; Thermogravimetric analysis; Coordination; Infrared spectroscopy; Magnetic susceptibility; Mossbauer spectroscopy;  $\text{M}_2\text{FeDTPA}$ ; Photodecomposition; 10556. SP305.
- Preparation of inososes from phenylhydrazones; Removal phenylhydrazine residue from phenylsazones; Catic ylosazones resin; Inosose phenylhydrazones; Inosose phenylsazones; 9705. SP305-1.
- Preparative chromatography on DEAE-cellulose; Spectrophotometric properties of pure NADH; ADP; ADP-ribose; Chromatography; Impurities in NADH preparations; NAL stability; 16316. SP305-8.
- Pre-processing; Relative error; Thinning; Cross section; Linearization; Paging; SP425, pp. 419-421. SP305-7.
- Preprocessor; Programming language; Data base; Data retrieval; Data structure; Information storage and retrieval; Language extension; TN590. SP305-3.
- Prepurification; Purity definition; Reagent contamination; Trapurification; Analytical blanks; Analytical reagents; Contamination control; High-purity reagents; Membrane filtration; Mercury cathode electrolysis; SP422, pp. 363-375 (Aug. 1976). SP305-8.



qualification; System performance; Tri-service; Underground heat distribution; ASTM, criteria; Federal Construction Council; Interagency; BSS66, pp. 73-77. **SP305-7.**

regulator; Regulation factor; Ripple voltage; Transistor; Voltage regulation; Zener diode; D-C amplifier; Design equations; Differential amplifier; Dual regulator; Integrated circuit; Output resistance; Power dissipation; Power supply; *TN371*. **SP305-1.**

sent value analysis; Analysis; Construction; Cost; Design; Economics; Flexibility; Law enforcement facilities; Performance; Planning; *14961*. **SP305-7.**

ervation; Records; Stability; Accelerated aging; Aging; deterioration; Laboratory aging; *11480*. **SP305-2.**

ervation of historical objects; Wear; Monumental brasses; neutron activation; *13847*. **SP305-6.**

ervation of records; Prints; Records; Repair of records; storage of records; Slides; Films; Negatives; Paper; Photographs; *C155*. **SP305-4.**

ervation of records; Records; Stability; Degradation; Paper; *1665*. **SP305-2.**

ervation of records; Records; Stability; Degradation; Paper; *1525*. **SP305-2.**

ervation of records; Tear reference; Testing program; Appearance properties; Paper research; *11842*. **SP305-3.**

ased contacts; Thermal conductance of contacts; <sup>3</sup>He cryostat; Low temperature; Low temperature calorimetry; mechanical heat switch; *11270*. **SP305-2.**

ased woven metal; Radiofrequency; Waveguide joints; oven metal; Electrical measurements; Fluid pressure seal; *765*. **SP305-1.**

asure; Carbon disulfide; Carbon tetrachloride; Density; electric constant; N-hexane; Polarizability; *11067*. **SP305-5.**

asure; Crystalline polymers; Dielectric measurements; dielectric relaxation; Dynamical diffusion; Grüneisen constant; Methyl stearate; *12572*. **SP305-4.**

asure; Enthalpy; Entropy; Equations of state; Helium; *4783*. **SP305-7.**

asure; Manometer; Mercury manometer; *14921*. **SP305-7.**

asure; Poly-5,5,4,4,3,3-heptafluoropentene-1; Poly-4,4,3,3-pentafluorobutene-1; Poly-3,3,3-trifluoropropene; gamma radiation; Polymerization; *9226*. **SP305.**

asure; Pressure intensifier; Pressure seal; Pressure vessel; Resistance; Resistance thermometer; Test; Thermometer; Thermometer leads; Thermostated bath; Vacuum; Water tight; ridge; Deep-sea thermometer; High pressure; Oceanographic thermometer; *TN894*. **SP305-8.**

asure; Pressure measurement; Pressure transducer; Thermal transient; Transducer; Calibration; Dynamic; Photo flashbulb; *BSIR 75-654*. **SP305-7.**

asure; Pressure measurement; Pressure transducer; Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; Photographic flashbulb; *TN905*. **SP305-8.**

asure; Pressure measurement; Calibration; Calibration chain; *BSIR 75-931*. **SP305-8.**

asure; Pressure measurement; Pressure transducer; Pressure transducer response; Response; Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; photoflash bulb; *NBSIR 76-1038*. **SP305-8.**

asure; Pressure rating (PR); Schedule 40, 80, and 120 sizes; dimensions; Hydrostatic design stress; Materials; Pipe; poly(vinyl chloride) (PVC); *PS21-70*. **SP305-2.**

asure; Pressure rating (PR); Standard dimension ratio (SDR); Threads; Class T; Dimensions; Hydrostatic design stress; Materials; Pipe; Poly(vinyl chloride) (PVC); *PS22-70*. **SP305-2.**

asure; Pressure regulator; Vacuum joints; Vacuum valves; ring tests; Capacitance; Diaphragm pressure transducer; environment; Meniscus characteristics; Mercury manometer; *1628*. **SP305-2.**

Pressure; Pressure source; Pressure transducer; Sinusoidal pressure; Transducer; Calibration; Dynamic; Dynamic calibration; Dynamic pressure; Dynamic pressure source; Liquid column; *TN914*. **SP305-8.**

Pressure; Pressure transducer; Theory; Transducer; Calibration; Construction; Impact; Interface; Piezoelectric polymer; Polymer; *NBSIR 75-740*. **SP305-7.**

Pressure; Pressure transducer response; Thermal transient; Transducer; Calibration; Dynamic; electronic flash; Photoflash bulb; *NBSIR 75-732*. **SP305-7.**

Pressure; Properties; Standards; Standard Reference Materials; Temperature; Thermal; Ceramics; Chemical composition; Mechanical properties; *12181*. **SP305-3.**

Pressure; *p-t* relation; *p-t* relation of water; Standard resistance thermometers; Temperature; Vapor pressure; Vapor pressure of water; Water; Manometer; Precision manometer; *J.73A No. 5, 493-496 (1969)*. **SP305-1.**

Pressure; Quality control; Safety; Testing; Engineering, instrumentation and techniques; Fluids; Force; Hydraulic equipment; Mechanical power; Noise; *16452*. **SP305-8.**

Pressure; Radiation and reactivity ratios; Tetrafluoroethylene; Trifluoropropene; Copolymerization; *9602*. **SP305-1.**

Pressure; Radiation-induced; Tetrafluoroethylene; 2,3,3,3-tetrafluoropropene; Polymerization; *12384*. **SP305-4.**

Pressure; Refractive index; Temperature coefficient of refractive index; Thermal expansion; Interferometry; Light scattering; Oxide glasses; Polarizability; *J.77A No. 6, 755-763 (1973)*. **SP305-5.**

Pressure; Report form; Temperature; Temperature compensator; Test; Vapor meter; Volume; Bell prover; Calibration; Inspection; Liquefied petroleum gas; *H117*. **SP305-7.**

Pressure; Salt water; Titanium; Corrosion; Electron microscopy; *13602*. **SP305-5.**

Pressure; Saturated liquid; Tables; Temperatures; Uncertainties; Volume; Volume correction factor; Argon; Compressed liquid; Density; Graphs; Liquid; Nitrogen; Oxygen; Parahydrogen; *TN361, Revised October 1972*. **SP305-5.**

Pressure; Saturated liquid; Tables; Temperature; Uncertainties; Volume; Argon; Compressed liquid; Density; Density ratios; Liquid; Nitrogen, oxygen; Parahydrogen; *TN361. (Revised). Metric Supplement*. **SP305-6.**

Pressure; Saturated liquid; Temperature; Uncertainties; Volume; Argon; Density; Nitrogen; Oxygen; Parahydrogen; *TN361*. **SP305-1.**

Pressure; Saturation boundary; Temperature; Thermal conductivity; Velocity of sound; Viscosity; Computer programs; Density; Enthalpy; Entropy; Heat capacity at constant pressure; Heat capacity at constant volume; Heat capacity ratio; *TN625*. **SP305-5.**

Pressure; Shock tube; Thermal transient; Transducer; Acceleration; Calibrator; Dual centrifuge; Dynamic; Inter-agency Transducer Project; Life-cycling; *10483*. **SP305-1.**

Pressure; Sinusoidal pressure; Transducer; Calibration; Dynamic; Liquid column; *NBSIR 75-708*. **SP305-7.**

Pressure; Specific volume; Temperature; Thermal expansion; Compressibility; Density; Dilatometer; *12977*. **SP305-4.**

Pressure; Spectra; Structural engineering; Tall buildings; Turbulence; Wind (meteorology); Acceleration; Aerodynamics; Building (codes); Deflection; Dynamic structural analysis; *14534*. **SP305-6.**

Pressure; Standard dimension ratio (SDR); Inside diameter dimensions; Materials; Pipe; Polyethylene (PE); *PS11-69*. **SP305-2.**

Pressure; Standards; Vacuum; Accuracy; Calibration; Measurement; *10269*. **SP305-1.**

Pressure; Standards; Vacuum; Accuracy; Calibration; Measurement; *11051*. **SP305-2.**

Pressure; Strain; Superconductivity; Electronic density of states; Fermi surface; In-Cd alloys; *SP323*, pp. 735-736. **SP305-4.**

- Pressure; Strain; Vacuum; Vibration; Viscosity; Acoustics; Fluid mechanics; Force; Gravity; Humidity; *SP300. Volume 8. SP305-4.*
- Pressure; Survey; Transducer; Calibration; Compatibility; Cryogenic; Liquid oxygen; Measurement; Oxygen; Performance; *15155. SP305-7.*
- Pressure; Telemetering; Test method; Transducer; Calibration; Dynamic calibration; Electro-mechanical; Performance; *10666. SP305-1.*
- Pressure; Temperature; Composite wall panel; Condensation; Humidity; Moisture; *13610. SP305-5.*
- Pressure; Temperature; Niobium pentoxide; Phase relationships; *J.77A No. 6, 705-711 (1973). SP305-5.*
- Pressure; Test methods; Transducer calibration; Evaluation; Measurement; Performance; *11042. SP305-2.*
- Pressure; Thermal; Volume; Compressibility; Configuration; Entropy; Heat capacity; Holes; Polymer; Poly(vinyl acetate); *16077. SP305-8.*
- Pressure; Three-terminal electrode set; Clausius-Mossotti; Density; Dielectric constant; Dilatometer; Function; High pressure; *n-hexane; J.71A4-460, 287-292 (1967). SP305.*
- Pressure; Transducer; Calibration; Performance; Test method; Dynamic calibration and telemetering; Electro-mechanical; *TN411. SP305.*
- Pressure; Transducer; Dynamic calibration; *NBSIR 73-290. SP305-6.*
- Pressure; Vacancy; Concentration; Crystal; Defect; Dislocation; Energy; Equilibrium; Force; Hydrostatic; *10337. SP305-1.*
- Pressure; Vacuum; Valve; Constant volume; Equation of state; *13013. SP305-4.*
- Pressure; Volume; Anderson-Grüneisen parameter; Bulk modulus; Compressibility; Grüneisen constant; Pair potential; Paraffins; Polyethylene; Polymers; *11677. SP305-2.*
- Pressure; 3,3,4,4,5,5,5-heptafluoropentene-1; Irradiation; Polymerization; *12089. SP305-3.*
- Pressure; 3,5,6-trichloro-octafluorohexanoic; Dechlorination; Gamma ray initiation; Pentadiene; Polymerized; *9706. SP305-1.*
- Pressure anisotropy; Pumping efficiency; Pumping speed; Speed factor measurements; Sticking coefficient; Vacuum techniques; Capture coefficient; Cryocondensation; Cryogenically cooled surfaces; Cryopump; Partial pressure measurements; *10265. SP305-1.*
- Pressure broadening; Argon mixtures; Inversion spectrum; Line shape; Microwave absorption; *ND<sub>3</sub>; 9933. SP305-1.*
- Pressure broadening; Dielectric constant; Dielectric polarization and refraction; Dielectric relaxation; Dipole moments; Electrical conductance of liquids and solutions; Internal rotation; Molecular interactions; *9905. SP305-1.*
- Pressure broadening; Pressure shifts; Saturated absorption; Wavelengths; Iodine stabilized lasers; Krypton; *14201. SP305-6.*
- Pressure broadening; Quantum mechanics; Wavefunctions; W.K.B; Atomic lines; Band strengths; Broadening; Continuum-continuum transitions; Diatomic molecules; Emission absorption; Interaction potential; *10492. SP305-1.*
- Pressure broadening; Radiation; Relaxation; Spectra; Symmetry; Collisions; Gases; Molecules; *9578. SP305-1.*
- Pressure broadening; Relaxation; Spectra; Absorption; Dielectric loss; Gases; Impact; Line shape; Microwave; Permeability; Permittivity; *9577. SP305-1.*
- Pressure broadening; Resonance broadening; Stark broadening; Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; *SP366. SP305-4.*
- Pressure broadening; Resonance broadening; Stark broadening; Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; *SP366. Supplement 1. SP305-6.*
- Pressure broadening; Resonance broadening; Stark broadening; Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; *SP366-2. SP305-7.*
- Pressure broadening; Resonance line shape; Saturated absorption; Laser spectrometer; *14067. SP305-6.*
- Pressure broadening; Saturated molecular absorption; Wavelength standard; Laser; Methane; *10826. SP305-1.*
- Pressure broadening; Scattering matrix; Spectral line broadening; Stark broadening; Symmetry group; Time order; Balmer lines; Four dimensional rotation group; Hydrogen; Plasma; Plasma broadening; *15009. SP305-7.*
- Pressure broadening; Strong collision; Classical trajectory; ygen; *12587. SP305-4.*
- Pressure broadening; Strong collision; Classical path approximation; Intermolecular potential; *12033. SP305-3.*
- Pressure calibration with vapor pressures; Pressure anisotropy; Pumping efficiency; Pumping speed; Speed factor measurements; Sticking coefficient; Vacuum techniques; Capture coefficient; Cryocondensation; Cryogenically cooled surfaces; Cryopump; *10265. SP305-1.*
- Pressure calibrations; Spectroscopy; X-ray diffraction; Diamond cell; Electrical resistance; High pressure; Nuclear deuterium; *16375. SP305-8.*
- Pressure coefficients of thermocouples; Pressure scale; Equation of state; Phase transformations as fixed points; *11042. SP305-2.*
- Pressure cycling; Pressure transducer; Strain gage; Life cycle; Life testing; *TN434. SP305.*
- Pressure dependence; Bulk modulus; Density; Equation of state; Glass transition temperature; Polyethylene; *14325. SP305.*
- Pressure dependence; Cross section; Differential; Electron; Experimental; Helium; Inelastic; *10324. SP305-1.*
- Pressure dependence; Relaxation; Reorientation; Temperature dependence; Chloroform; Deuterium; NMR; *15324. SP305.*
- Pressure dependence; Superconductivity; T<sub>1</sub>; Critical field; Ions; *In; SP323, pp. 681-684. SP305-4.*
- Pressure dependence; Temperature dependence; Cadmium fluoride; Dielectric constant; *11608. SP305-2.*
- Pressure dependences; Pseudopotential; Resistivity ratios; Bismuth; Sodium; Thermoelement power; Alkali metals; Cesium; Knight shift; Lithium; Potassium; *SP323, 651-657. SP305-4.*
- Pressure differential during swirling flow; Swirling flow; Drop of swirling flow; Helical flow; *15080. SP305-7.*
- Pressure drop; Compressible flow; Flow comparison; Fluid flow; Incompressible flow; Mass flow; *TN356. SP305.*
- Pressure drop; Superfluid helium; Two phase flow; Compressibility flow; Cryogenics; Fluid dynamics; *16642. SP305-8.*
- Pressure drop; Temperature; Uniformity; Effectiveness; Flow mixing; Mixing device; *B5527. SP305-2.*
- Pressure drop losses; Compressor efficiency; Cycle efficiency; Heat exchanger losses; Hydrogen liquefier; *15879. SP305.*
- Pressure effect; Thermometer; Carbon; Germanium; *10. SP305-1.*
- Pressure effect on absorption spectrum; Radiationless transitions; Internal conversion; Intersystem crossing; Naphthalene vapor absorption spectrum; *13317. SP305-5.*
- Pressure, effect on emf of thermocouples; Simulated experiment, pressurized emf of thermocouples; Temperature, effect at high pressure; Thermocouples, effect of pressure on emf of; Emf, thermocouple, effect of pressure on; *12. SP305-4.*
- Pressure effects; Crystal potential; Effective masses; Electronic density of states; Electronic specific heat; Noble metals; *SP323, pp. 63-65. SP305-4.*
- Pressure effects; Electronic density of states; Galvano-magnetic properties; Graphite; Hall Effect; Magneto-resistance; *SI 300, pp. 717-725. SP305-4.*
- Pressure effects; Proximity effect; Superconductive alloys; Superconductive compounds; Superconductivity; High transition temperature; *13544. SP305-5.*

ure effects on diffusion; Self-diffusion; Sintering; Surface  
 fusion; Thermo-migration; Copper; Diffusion; Elec-  
 migration; Liquid copper diffusion; Nuclear magnetic  
 onance and diffusion; *J. Phys. Chem. Ref. Data* 2, No. 3,  
 456 (1973). **SP305-6.**  
 ure error; Second order fluid; Hole pressure; Nonlinear  
 ology; Normal stresses; *11966. SP305-3.*  
 ure fluctuations; Instrumentation; Overturning moments;  
 and loads; Wind tunnel modeling; Boundary layer;  
 ings; *BSS30*, pp. 45-59. **SP305-3.**  
 ure fluctuations; Stagnation point; Turbulence; Disk;  
 63. **SP305-3.**  
 ure fluctuations; Statistical analysis; Wind loads; Buildings;  
 -scale tests; Instrumentation; *14455. SP305-6.*  
 ure fluctuations; Subcritical flow; Supercritical flow;  
 nscriptal flow; Turbulence; Circular cylinders; Power  
 tra; *BSS30*, pp. 87-91. **SP305-3.**  
 ure fluctuations; Turbulence; Disk; *14448. SP305-6.*  
 ure fluctuations; Wind loads; Wind tunnel modeling;  
 ings; Full-scale tests; Power spectra; *BSS30*, pp. 61-71.  
 05-3.  
 ure gage; Temperature; Temperature gradient; Transdu-  
 ; Flush diaphragm; *9258. SP305.*  
 ure gages; Pressure measurement; Vacuum measurement;  
 66. **SP305-1.**  
 ure gages; Pressure-sensitive components; Regenerating  
 uits; Transit time; Ultrasonic pulses; Fluid range; Measure  
 sures; *10563. SP305-1.*  
 ure gauges; Safety; Gauge case design; Hydrogen embrit-  
 tent; Hydrogen gas; *13102. SP305-5.*  
 ure generation;  $10^{-3}$  to  $10^{-4}$  torr range; *16028. SP305-8.*  
 ure gradients; Pressure measurements; Ruby fluorescence;  
 mond-anvil pressure cell; Glass transition pressures;  
 rostaticity; *13953. SP305-6.*  
 ure hole errors; Shearing flows; Hole pressure; Normal  
 s; *13894. SP305-6.*  
 ure intensifier; Pressure seal; Pressure vessel; Resistance;  
 stance thermometer; Test; Thermometer; Thermometer  
 is; Thermostated bath; Vacuum; Water tight; Bridge;  
 p-sea thermometer; High pressure; Oceanographic ther-  
 meter; Platinum resistance thermometer; *TN894. SP305-*  
  
 ure loss; Ventilation; Exchanger dimensions; Frost forma-  
 ; Heat exchanger; Heating costs; Mechanical systems;  
 ution; *TN710-5. SP305-4.*  
 ure measurement; Calibration; Piston gages; *14931.*  
 05-7.  
 ure measurement; Calibration; Calibration chain; Pressure;  
*SIR 75-931. SP305-8.*  
 ure measurement; Calibration of pressure scales; Critically  
 luated data; High pressure; High pressure phase changes;  
*J. Phys. Chem. Ref. Data* 1, No. 3, 773-836 (1972). **SP305-**  
  
 ure measurement; Pressure transducer; Thermal transient;  
 nsducer; Calibration; Dynamic; Photo flashbulb; Pressure;  
*SIR 75-654. SP305-7.*  
 ure measurement; Pressure transducer; Thermal transient;  
 nsducer; Zero shift; Calibration; Dynamic; Electronic  
 h; Photographic flashbulb; Pressure; *TN905. SP305-8.*  
 ure measurement; Pressure transducer; Pressure transfer  
 response; Response; Thermal transient; Transducer;  
 o shift; Calibration; Dynamic; Electronic flash; Photoflash  
 h; Pressure; *NBSIR 76-1038. SP305-8.*  
 ure measurement; Primary pressure standards; Calibration;  
 60. **SP305-7.**  
 ure measurement; Ruby; Diamond-anvil cell;  
 rescence; *13281. SP305-5.*  
 ure measurement; Ruby fluorescence; Semiconductors;  
 nition pressures; Diamond-anvil pressure cell; Fixed  
 point pressure scale; High pressure; NaCl pressure scale;  
*15224. SP305-7.*  
 Pressure measurement; System dynamics; Thermometers; Cool-  
 ing system; Cryogenics; Helium-cooled electrical leads; Hel-  
 ium impurities; Microwave cavities; Negative differential flow  
 resistance; *NBSIR 75-823. SP305-7.*  
 Pressure measurement; Temperature coefficient; Bismuth  
 transition; Calibration point; High pressure; *J.74A No. 1, 51-*  
*63 (1970). SP305-2.*  
 Pressure measurement; Temperature scale; Vapor pressure;  
 Helium; *13589. SP305-5.*  
 Pressure measurement; Thermomolecular pressure difference;  
 Vapor pressure; Vapor pressure thermometry; Capacitance  
 manometer; Cryogenic thermometry; Manometry; *11740.*  
**SP305-2.**  
 Pressure measurement; Transition pressure; High pressure;  
 Piston gauge; *10159. SP305-1.*  
 Pressure measurement; Vacuum measurement; Pressure gages;  
*10266. SP305-1.*  
 Pressure measurement; Vane gages; Vapor pressure measure-  
 ment; Calibration techniques; Capacitance pressure gages;  
 Gas column manometers; Manometers; Meteorographs;  
 Micromanometers; Piston gages; *Monogr. 114. SP305-2.*  
 Pressure measurement errors; Pressure transducers; Response;  
 Temperature; Thermal gradients; Zero shift; *TN490. SP305-*  
*1.*  
 Pressure measurements; Rock mechanics; Space environment  
 simulation; Ultrahigh vacuum; Anisotropy; Compression tests;  
 Mass spectroscopy; Mechanical properties; Outgassing;  
*SP336*, pp. 209-223. **SP305-3.**  
 Pressure measurements; Ruby fluorescence; Diamond-anvil  
 pressure cell; Glass transition pressures; Hydrostaticity; Pres-  
 sure gradients; *13953. SP305-6.*  
 Pressure probe shroud; Static pressure; Weatherproof pressure  
 probe; Wind field pressure measurements; Ambient pressure  
 probe; Omnidirectional pressure probe; *U.S. Patent*  
*3,950,995. SP305-8.*  
 Pressure profile; Steam; Venturi; Water; Critical flow; *TN608.*  
**SP305-3.**  
 Pressure radiation; Reactivity ratios; Tetrafluoroethylene;  
 Copolymerization; Pentafluorostyrene; Polymerization;  
*15281. SP305-7.*  
 Pressure rating (PR); Schedule 40, 80, and 120 sizes; Dimen-  
 sions; Hydrostatic design stress; Materials; Pipe; Poly(vinyl  
 chloride) (PVC); Pressure; *PS21-70. SP305-2.*  
 Pressure rating (PR); Standard dimension ratio (SDR);  
 Threads; Class T; Dimensions; Hydrostatic design stress;  
 Materials; Pipe; Poly(vinyl chloride) (PVC); Pressure; *PS22-*  
*70. SP305-2.*  
 Pressure regulator; Vacuum joints; Vacuum valves; Wring tests;  
 Capacitance; Diaphragm pressure transducer; Environment;  
 Meniscus characteristics; Mercury manometer; Pressure;  
*11628. SP305-2.*  
 Pressure scale; Equation of state; Phase transformations as  
 fixed points; Pressure coefficients of thermocouples; *11052.*  
**SP305-2.**  
 Pressure scale; Shock wave technique; Temperature; Accurate  
 measurement; Equation-of-state; Fixed points; High pressure;  
 High-pressure equipment; Instrumentation; *SP326. SP305-3.*  
 Pressure seal; Coning tool; High-pressure tubing; *11281.*  
**SP305-2.**  
 Pressure seal; Pressure vessel; Resistance; Resistance ther-  
 mometer; Test; Thermometer; Thermometer leads; Thermo-  
 stated bath; Vacuum; Water tight; Bridge; Deep-sea ther-  
 mometer; High pressure; Oceanographic thermometer;  
 Platinum resistance thermometer; Pressure; *TN894. SP305-8.*  
 Pressure second virial coefficients; Quadrupole moment;  
 Statistical mechanics; Clausius-Mossotti function; Dielectric  
 virial coefficients; M-6-8 potential; Polarizability; Polyatomic  
 gases; *13593. SP305-5.*

- Pressure shifts; Saturated absorption; Wavelengths; Iodine stabilized lasers; Krypton; Pressure broadening; *14201. SP305-6.*
- Pressure source; Pressure transducer; Sinusoidal pressure; Transducer; Calibration; Dynamic; Dynamic calibration; Dynamic pressure; Dynamic pressure source; Liquid column; Pressure; *TN914. SP305-8.*
- Pressure source; Pressure transducer; Sinusoidal; Space shuttle; Transducer; Bias pressure; Calibration; Dynamic calibration; Dynamic pressure; High pressure; Liquid medium; Pogo pressure; *TN927. SP305-8.*
- Pressure standard; Purification; Vapor pressure; Carbon dioxide; Fixed point; Hypsometer; *J72C No. 1, 27-32 (1968). SP305-1.*
- Pressure standards; Calibration; Fixed point; Freezing pressure; Manganin gage; Mercury; *9811. SP305-1.*
- Pressure transducer; Pressure transducer response; Response; Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; Photoflash bulb; Pressure; Pressure measurement; *NBSIR 76-1038. SP305-8.*
- Pressure transducer; Protective coatings; Thermal radiant-energy response; Thermal transient response; Transducer; Coatings; Photoflash bulb; *NBSIR 76-1060. SP305-8.*
- Pressure transducer; Protective coatings; Shock tube; Tape; Thermal radiant-energy response; Thermal transient response; Transducers; Zero shift; Coatings; Dynamic; Dynamic response; *NBSIR 76-1144. SP305-8.*
- Pressure transducer; Railway safety; Silicon devices; Water heaters; Windowless buildings; Auto fuels; Energy; Highway safety; Lead; *DIM/NBS 59, No. 8, 169-192 (1975). SP305-7.*
- Pressure transducer; Sensitivity shift; Strain gage; Temperature cycling; Temperature storage; Zero shift; Life testing; *TN497. SP305-1.*
- Pressure transducer; Sinusoidal pressure; Calibrator; Dynamic; Hydraulic; InterAgency Transducer Project; *TN720. SP305-4.*
- Pressure transducer; Sinusoidal pressure; Transducer; Calibration; Dynamic; Dynamic calibration; Dynamic pressure; Dynamic pressure source; Liquid column; Pressure; Pressure source; *TN914. SP305-8.*
- Pressure transducer; Sinusoidal; Space shuttle; Transducer; Bias pressure; Calibration; Dynamic calibration; Dynamic pressure; High pressure; Liquid medium; Pogo pressure; Pressure source; *TN927. SP305-8.*
- Pressure transducer; Spectrometer;  $\text{KClO}_3$  nuclear quadrupole resonance; *J74C Nos. 1 and 2, 3-8 (1970). SP305-2.*
- Pressure transducer; Strain gage; Life cycling; Life testing; Pressure cycling; *TN434. SP305.*
- Pressure transducer; Temperature effects; Test method; Thermal transient; Laser; Performance characteristic; *TN723. SP305-4.*
- Pressure transducer; Theory; Transducer; Calibration; Construction; Impact; Interface; Piezoelectric polymer; Polymer; Pressure; *NBSIR 75-740. SP305-7.*
- Pressure transducer; Thermal transient; Transducer; Calibration; Dynamic; Photo flashbulb; Pressure; Pressure measurement; *NBSIR 75-654. SP305-7.*
- Pressure transducer; Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; Photographic flashbulb; Pressure; Pressure measurement; *TN905. SP305-8.*
- Pressure transducer; Transducer calibration; Vibration; Boundary initial problems; Measurement; *TN856. SP305-7.*
- Pressure transducer response; Response; Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; Photoflash bulb; Pressure; Pressure measurement; Pressure transducer; *NBSIR 76-1038. SP305-8.*
- Pressure transducer response; Thermal transient; Transducer; Calibration; Dynamic, electronic flash; Photoflash bulb; Pressure; *NBSIR 75-732. SP305-7.*
- Pressure transducers; Response; Temperature; The gradients; Zero shift; Pressure measurement errors; *TN-SP305-1.*
- Pressure transducers; Socio-economic; Structural design Technology implementation; Wind effects; Wind loads; Codes and standards; Information transfer; Low buildings; *B5556. SP305-6.*
- Pressure transducers; SRM; Surgical implants; Testing; The transients; Architectural heritage; Fire; Guardrail; Capacity; Mathematics; Mercury; Performance standards; *DIM/NBS 60, No. 8, 1-24 (1976). SP305-8.*
- Pressure transducers; Temperature effects; Cryogenic; Fission; Nuclear radiation; *9662. SP305-1.*
- Pressure transducers; Thermal comforts; Weights and measures; Building industry; Calibration system; Centigrade/celsius; Computer; Electrical industries; Environments; Glass standards; Government intervention; Heating/cooling; *DIM 60, No. 10, 1-24 (1976). SP305-8.*
- Pressure vessel; Resistance; Resistance thermometer; Thermometer; Thermometer leads; Thermostated Vacuum; Water tight; Bridge; Deep-sea thermometer; pressure; Oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; *TN894. SP305-8.*
- Pressure waves; Propagation; Acoustic modes; Auroras; Gravitational (thermobaric) mode; *10767. SP305-1.*
- Pressure-broadened line shapes; Soviet Union; Submillimeter waves; High resolution molecular spectroscopy; Lasers; Laser report; Novosibirsk; *16010. SP305-8.*
- Pressured ionization chamber; Radioactivity  $^{137}\text{Xe}$ ;  $\nu$  reactivity; Enriched source; Ge(Li) detector; Measured intensity; *14812. SP305-7.*
- Pressure-density-temperature relations; Thermodynamic properties; Methane; *13048. SP305-4.*
- Pressure-loss-depression; Thermal convection; Ventilation infiltration and extraction, airtightness; Discomfort index; Duct system, collective and individual branch; Flow noise; *TN710-3. SP305-4.*
- Pressure-sensitive components; Regenerating circuits; Time; Ultrasonic pulses; Fluid range; Measure pressures; Pressure gages; *10563. SP305-1.*
- Pressure-synthesis; Pyrochlore;  $\text{BiRhO}_3$ ; Defect structure; Perovskite; *SP364, pp. 219-226. SP305-4.*
- Pressure-volume; Properties; Temperatures; Triple-point region; T-S diagram; Enthalpy; Entropy; Parahydrogen; *TN-SP305.*
- Pressurization; Radiation heat transfer; Spacecraft thermal; Stratification; Supercritical storage; Two-phase flow; Gravity; Boiling heat transfer; Bubble dynamics; Cavitating; Condensing heat transfer; Correlations; Cryogenic safety; *13242. SP305-5.*
- Pressurized stairwell; Quantitative experiment; Smoke cell; Smoke simulation; Analysis; Basic correlation formulas; Computer calculations; High-rise building fire; Open fire; *BREKTHROUGH; 13795. SP305-5.*
- Pressurized water reactors; Primary coolant; Sampling; Analysis; Carbon; Crud; Filtration; *SP422, pp. 429-438 (1976). SP305-8.*
- Pre stressed concrete; Reinforced concrete; Steel; Analysis; Methods; Concrete; Creep; Elevated temperature; Finite differences; Finite elements; Fire endurance; Fire resistance; Isotherms; *SP411, pp. 154-164. SP305-6.*
- Pre stressed concrete; Relaxation; Shrinkage; Variable properties; Creep; Loss of prestress; *B5513. SP305-1.*
- Pre stressed concrete beams; Tee-beams; Composite construction; *B5531. SP305-2.*
- Pre stressed wood; Slope of grain; Strength criteria; Strength ratio; Strength-reducing characteristics; Structural; Design material; Design criteria; Design stresses; Glued-laminated timber; Knots; Lamination; Lumber grades; *SP361, pp. 625-632. SP305-4.*



transition phenomena; Specific heat; Thermodynamic properties; Aluminum trifluoride; Drop calorimetry, enthalpy measurements; High-temperature calorimetry; Phase transition; *J71A3-450, 185-193 (1967). SP305.*

Pre-trial release; Preventive detention; Recidivism; Statistical relationships; Bail; Criminal court data; Criminal justice system; Dangerousness; Data collection problems and procedures; District of Columbia; Judicial system; Prediction research; *TN535. SP305-2.*

Prevention; Economics; History; Iron mechanisms; Microbial corrosion; *14781. SP305-7.*

Prevention; Review; Algae; Bacteria; Biological corrosion; Fungi; Mechanisms; *14528. SP305-6.*

Prevention; Sealants; Tooth loss; Caries; Dental materials; Plastics; *13261. SP305-5.*

Prevention of electrocution; Branch circuit protection; Electrical safety; Electric shock; Ground fault; Leakage current; *85381. SP305-8.*

Preventive dental materials; Acrylic resins; Chemistry; Composite resins; Dental materials; Hydroxybenzoic acids; Pit and fissure sealants; *19539. SP305-8.*

Preventive detention; Recidivism; Statistical relationships; Bail; Criminal court data; Criminal justice system; Dangerousness; Data collection problems and procedures; District of Columbia; Judicial system; Prediction research; Pre-trial release; *TN535. SP305-2.*

Preventive measures; Splitting failures; Thermal shock; Built-up of membrane; Innovation; *9207. SP305.*

Preventive technology; Scientific pills; Society and science; Technology and civilization; *16300. SP305-8.*

Prevalence; User; Value; Building; Competitive market; Construction; Cost; Evaluation; Materials; Performance; *SP361, Vol. 1, pp. 41-148. SP305-4.*

Prevalence list; Property of material; Purity of material; Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; *M260, 1967 Edition. SP305.*

Prevalence list; Property of material; Purity of material; Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; *M260, 1968 Edition. SP305.*

Prevalence list; Property of material; Purity of material; Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; *SP260, July 1969 Edition. SP305-1.*

Prevalence; Administration of computing; Computer services; Management; Microeconomics; *15131. SP305-7.*

Prevalence; Argon; Molecular complexity; Molecular thermodynamics; *9386. SP305.*

Prevalence; Reliability; Renovation; Secondary; System; Variable; Anchor; Controls; Corrosion; Growth; Metering; Modern; Museum; *B5566, pp. 102-115. SP305-7.*

Prevalence; Absolute Cavity Radiometer; Circumsolar radiation; Appleby Angstrom pyrheliometer; International pyrheliometric scale; *12768. SP305-4.*

Prevalence; Primary and secondary photochemical processes; Bond energy; Chain reaction; Determination of photochemical mechanism; Flash photolysis; Intermittent illumination; Photochemical principles; Photochemical reaction of atoms and molecules; Photochemistry in the atmosphere; *16515. SP305-8.*

Primary batteries; Primary cells; Batteries; Cells, primary; Dry cells; *16043. SP305-8.*

Primary battery; Secondary battery; Transceiver; Battery performance standard; Law enforcement communications, Law Enforcement Standards Laboratory; Personal/portable transceivers; *16296. SP305-8.*

Primary cells; Batteries; Cells, primary; Dry cells; Primary batteries; *16043. SP305-8.*

Primary coolant; Sampling; Water; Analysis; Carbon; Crud; Filtration; Pressurized water reactors; *SP422, pp. 429-438 (Aug. 1976). SP305-8.*

Primary creep; Shear; Shell; Stress analysis; Thin wall; Torsion; Tube; Creep; *J71C3-256, 209-225 (1967). SP305.*

Primary dissociations; Propane; Solid phase; Free radicals; Photolysis; *10007. SP305-1.*

Primary emission; Quantitative electron probe analysis; X-ray absorption factor; Absorption correction; *15722. SP305-8.*

Primary explosives; Differential thermal analysis; Dupont 900 DTA remote cell; Lead azide; Lead stypnate; Mercury fulminate; Metastable materials; Potassium dinitrobenzofuroxan; *SP338, pp. 151-164. SP305-2.*

Primary fracture front; Topography; Brittle polymers; Fracture topography; Kinetics; Polymeric solids; *9487. SP305.*

Primary frequency standard; Atomic beams; Atomic clock; Atomic time; Cesium beam tube; Definition of the second; Frequency accuracy; International atomic time; *16487. SP305-8.*

Primary frequency standard; Cesium beam standard; Doppler effect; Frequency accuracy; Frequency stability; Power shift; *13990. SP305-6.*

Primary frequency standard; Standard frequency broadcasts; Time interval; Time scales; Clock synchronization; Frequency and time dissemination; *TN379-1. SP305-4.*

Primary frequency standard; Standard frequency broadcasts; Time interval; Time scales; Clock synchronization; Frequency and time dissemination; *TN379. SP305-1.*

Primary frequency standard; Standard frequency broadcasts; Time interval; Time scales; Clock synchronization; Frequency and time dissemination; *TN656. SP305-6.*

Primary frequency standards; Accuracy; Atomic frequency standards; Cesium beam tubes; Clocks; Hydrogen masers; Lasers; *TN646. SP305-6.*

Primary frequency standards; Proper time; UTC; Atomic clocks; Clock acceleration effect; Definition of the second; Frequency accuracy; Frequency standards; General relativity; Gravitational redshift; *16236. SP305-8.*

Primary frequency standards; Relativity; SI second; Time scale accuracy algorithm; Time scale stability; Coordinate time scales; Frequency calibration; International frequency comparisons; Optimum frequency estimate; *15672. SP305-7.*

Primary frequency standards; Ramsey cavity; Accuracy; Accuracy evaluations; Cavity phase shift; Cesium beam tube; Frequency stability; Interaction length; Phase noise; *15683. SP305-7.*

Primary interference reactions; Systematic errors; Trace analysis; Accuracy; Activation analysis; Analytical chemistry; Charged particle activation analysis; Cross sections; Excitation functions; Fast neutron activation analysis; *SP422, pp. 1189-1214 (Aug. 1976). SP305-8.*

Primary photochemical processes; Quantum yields; Vacuum ultraviolet photolysis; Free radical scavenging; Hydrocarbons; Isobutane; Neopentane; *14996. SP305-7.*

Primary pressure standards; Calibration; Pressure measurement; *15460. SP305-7.*

Primary process; Decay; Flash photolysis; Lifetime; Matrix isolation; *9396. SP305.*

Primary processes; Free radical reactions; Ion-molecule reactions; Isobutane; Photoionization; Photolysis; *10488. SP305-1.*

Primary processes; Quantum yield; Far ultraviolet photochemistry; Free radicals; Organic compounds; Photofragments; *14619. SP305-6.*

Primary processes; Quantum yields; Acetone; Far ultraviolet; Photolysis; *14353. SP305-6.*

Primary processes; Quantum yields; Ammonia; Extinction coefficients; Far ultraviolet photochemistry; Free radicals; *14371. SP305-6.*

- Primary processes; Radiolysis; Ion-molecule reactions; Ion pair yields; Pentanone; Photolysis; 10049. SP305-1.
- Primary processes; Reactions C(P), C(D); Absolute rate constants; Carbon suboxide; Flash photolysis; 11258. SP305-2.
- Primary processes; Superexcited molecules; Alkanes; Free radical reaction; Ion-molecule reactions; Photoionization; Photolysis; 10728. SP305-1.
- Primary processes; Vacuum ultraviolet; Ethane; Free radicals; Ions; Photolysis; 11904. SP305-3.
- Primary processes; 1-butene; Far ultraviolet; Free radical reactions; Ion-molecule reactions; Photochemistry; 14773. SP305-7.
- Primary standard; Radiometry; Vacuum ultraviolet; Wall-stabilized arc; Blackbody calibrations; Hydrogen continuum; 15412. SP305-7.
- Primary standard and clocks; Accurate and uniform time scale; Allan variance; Dispersion of time scale; Ensemble time (error); Prediction interval; TN626. SP305-5.
- Primary standards; Properties; Atom; Energy generation; Industrial technology; Molecule; NBSIR 75-944. SP305-8.
- Primary standards; Standards; Standard reference material; 11511. SP305-2.
- Primary thermometry; Speed of sound; Ultrasonic interferometer; Acoustical thermometry; Isotherms below 20 °K; Low temperature thermometry; 9379. SP305.
- Prime; Program; Test; Assessment; Complex; Composite; Computer; Criteria; Evaluation; Gaussian primes; Indexing; Measurement; Performance; TN572. SP305-3.
- Prime ideal; Domain of discontinuity; Euler characteristic; Fundamental polyhedron; Hilbert nullstellensatz; Hyperbolic space; Kleinian group; Limit set; Parabolic triangle group; 10646. SP305-1.
- Prime ideal; Region of discontinuity; Conjugate subgroups; Fuchsian group; Hilbert nullstellensatz; Kleinian group; Parabolic triangle group; 9758. SP305-1.
- Primers; Sealants; Adhesion; Bonding; Composites; Coupling agents; Monomers; Polymers; 15374. SP305-7.
- Primitivity and automatic theory; Relation, calculus; Aggregation; Automatic theory; Boolean matrices; Consolidation; DeMorgan-Pierce-Schroder relation algebra; Input-output models; Indecomposability; Markov chains; Mathematical economics; 10025. SP305-1.
- Princeton University; Rietz, H. L.; Shewhart, W. A.; Statistical tolerance limits; Wilks, S. S.; Wishart, John; Annals of Mathematical Statistics; Army Experiment Design Conferences; Dodd, E. L.; Educational testing; 15513. SP305-7.
- Principal components; Structure; Two-way tables; Analysis of variance; Interaction; 13629. SP305-5.
- Principal components; Surface fitting; Two-way arrays; Factorial experiments; Interaction; Nonadditivity; 12109. SP305-3.
- Principal components; Surface fitting; Factorial experiments; Interaction; Nonadditivity; J73B No. 4, 309-328 (1969). SP305-1.
- Principal components; Two-factor data; Analysis of variance; Data structure; 13018. SP305-4.
- Principal display panel; Regulations; Weights and measures; Consumer package; Exemption; Fluid measure; Labeling; Net quantity; H108. SP305-3.
- Principal ideal ring; Dedekind ring; Matrix ring; Non-Noetherian ring; J73B No. 3, 211-213 (1969). SP305-1.
- Principal ideal rings; Smith normal form; Invariant factors; J75B Nos. 1 and 2, 81-84 (1971). SP305-3.
- Principal ideal rings; Symmetric completion; Symmetric matrices; Unimodular matrices; Fields; 13976. SP305-6.
- Principal minor; Routh-Hurwitz conditions; Sign stable; Sign symmetric; Stability; Tridiagonal; Diagonally dominant; Diagonal matrix; D-stability; Gergorin's theorem; Lyapunov's theorem; M-matrix; Oscillatory; Positive definite; 14782. SP305-7.
- Principal minors; Stable matrix; M-matrix; J78B No. 3, 104 (1974). SP305-6.
- Principal moments; Radius of gyration; Self-interacting polymer chains; Asymmetry of polymer configurations; Excluded volume; 14016. SP305-6.
- Principal moments of inertia; Standard enthalpy of formation; Vibrational fundamentals; Chlorofluoromethanes; Ideal gas thermodynamic functions; JPCRD 5, No. 3, 571-580 (1970). SP305-8.
- Principal submatrices; Cauchy inequalities; Hermitian matrix; Interlacing theorems; Matrices; Matrix inequalities; Matrix theory; J72B No. 1, 7-22 (1968). SP305-1.
- Principal submatrices; Rank; Symmetric matrix; Eigenvalue; Matrix; J72B, No. 2, 115-125 (1968). SP305-1.
- Principal submatrices; Rank; Symmetric matrix; Matrix; J72B No. 4, 249-252 (1968). SP305-1.
- Principal submatrix; Spectral radius; Vector norm; Consistent; Matrix norm; Monotonicity; J79B Nos. 3 and 4, 97-100 (1975). SP305-7.
- Principles of grinding; Surface finish in grinding; Surface integrity in ground surfaces; Wheel dressing; Abrasive wear parameter; Grinding; Material removal parameter; SP348, 159-71. SP305-4.
- Principles of hydraulics; National Bureau of Standards; Performance of plumbing systems; Plumbing code; 150. SP305-7.
- Printing; Applications; Computers; Computer-assisted typesetting; FORTRAN programs; KWIC index; Phototypesetting; TN500. SP305-2.
- Printing; Computer-typesetting; Cost studies or economic feasibility; Estimating complex keyboarding; Micropublishing; Photocomposition; 10637. SP305-1.
- Printing; Publication; Typesetting; Automation; Computer; Photocomposition; 9591. SP305-1.
- Printing; Systems; Clearinghouse for Federal Scientific and Technical Information; Microphoto; Microprinting; 101. SP305-1.
- Printing and publication; Automated type composition; Computerized typesetting; Graphic arts; Photocomposition; Monographs; 99. SP305.
- Printout; Photolysis; Radiographic films; Silver halide; Dosimetry; Gamma rays; Hypersensitization; Internal image; Latensification; Photographic development; Physical development; 11643. SP305-2.
- Prints; Records; Repair of records; Storage of records; Slides; Films; Negatives; Paper; Photographs; Preservation of records; C155. SP305-4.
- Prism interferometer; Testing of lenses; Interferometer; Lens aberrations; 9231. SP305.
- Prism interferometer; Wavefront shearing interferometer; Interferometer; 10195. SP305-1.
- Prism-spectroradiometer; Radiometry; Sources; Spectral irradiance; Filter-spectroradiometer; Measurement techniques; 10428. SP305-1.
- Privacy; Privacy Act of 1974; Privacy compliance techniques; Privacy costs; Privacy model; Security costs; Computer security; Confidentiality; Cost model; Data security costs; 93-597; TN906. SP305-8.
- Privacy; Privacy Act of 1974; Privacy compliance techniques; Privacy costs; Privacy model; Security costs; Computer security; Confidentiality; Cost model; Data security costs; PL-93-579; NBSIR 76-985. SP305-8.
- Privacy; Privacy and security; Security; Computer systems; Computer systems; Confidentiality; SP404. SP305-6.
- Privacy; Privacy costs; Security costs; Computer security; Information security; TN876. SP305-7.
- Privacy; Privacy legislation; Privacy planning; 15631. SP305.
- Privacy; R&D systems; Robots; Automation; Computers; Energy conservation; Fish story; Innovation; Lead paint; Low-cost housing; DIM/NBS No. 11, 241-263 (1974). SP305-6.

- Privacy; Record identification; Risk analysis; Security; Data confidentiality; Data integrity; Encryption; Personal identification; 16390. **SP305-8.**
- Privacy; Recordkeeping practices; Security; Citizen rights; Computers; Confidentiality; Data systems; Health records; Information policy; Management principles; Medical records; Monogr. 157. **SP305-8.**
- Privacy; Requirements definition; Security; Systems design; Computer; Data processing; Index; Information processing; NBSIR 75-909. **SP305-7.**
- Privacy; Safeguards for security and privacy; Technology for security and privacy; Computer security; Information handling; 16439. **SP305-8.**
- Privacy; Scramblers; Speech quality; Speech scramblers; Survey; Testing; Voice privacy; Intelligibility; LESL; NILECJ; performance standard; 14714. **SP305-6.**
- Privacy; Security; Computer systems, privacy and security; confidentiality; TN809. **SP305-6.**
- Privacy; Security; Standards; Technology assessment; User experience; Auditing; Cost/benefit analysis; Data base; Data use management; DBMS; Government regulation; Management objectives; SP451. **SP305-8.**
- Privacy; Security; Terms; Vocabulary; Computer; Data processing; Definitions; Federal Information Processing Standards Publication; Information processing; FIPS PUB 39. **SP305-8.**
- Privacy Act of 1974; Privacy compliance techniques; Privacy costs; Privacy model; Security costs; Computer security; Confidentiality; Cost model; Data security costs; PL 93-597; Privacy; TN906. **SP305-8.**
- Privacy Act of 1974; Privacy compliance techniques; Privacy costs; Privacy model; Security costs; Computer model; Computer security; Confidentiality; Cost model; Data security costs; PL 93-579; Privacy; NBSIR 76-985. **SP305-8.**
- Privacy and security; Security; Computer systems; Confidentiality; Privacy; SP404. **SP305-6.**
- Privacy compliance techniques; Privacy costs; Privacy model; Security costs; Computer security; Confidentiality; Cost model; Data security costs; PL 93-597; Privacy; Privacy Act of 1974; TN906. **SP305-8.**
- Privacy compliance techniques; Privacy costs; Privacy model; Security costs; Computer model; Computer security; Confidentiality; Cost model; Data security costs; PL 93-579; Privacy; Privacy Act of 1974; NBSIR 76-985. **SP305-8.**
- Privacy costs; Privacy model; Security costs; Computer security; Confidentiality; Cost model; Data security costs; PL 93-597; Privacy; Privacy Act of 1974; Privacy compliance techniques; TN906. **SP305-8.**
- Privacy costs; Privacy model; Security costs; Computer model; Computer security; Confidentiality; Cost model; Data security costs; PL 93-579; Privacy; Privacy Act of 1974; Privacy compliance techniques; NBSIR 76-985. **SP305-8.**
- Privacy costs; Security costs; Computer security; Data security; Privacy; TN876. **SP305-7.**
- Privacy legislation; Privacy planning; Privacy; 15631. **SP305-7.**
- Privacy model; Security costs; Computer security; Confidentiality; Cost model; Data security costs; PL 93-597; Privacy; Privacy Act of 1974; Privacy compliance techniques; Privacy costs; NBSIR 76-985. **SP305-8.**
- Privacy of data; Computer data banks; 10642. **SP305-1.**
- Privacy planning; Privacy; Privacy legislation; 15631. **SP305-7.**
- Privacy risk assessment; Access controls; ADP security; Computer security; Federal Information Processing Standards; Information management; Personal data; Physical security; FIPS PUB 41. **SP305-7.**
- Private sector; R&D; Technological change; Decisionmaking; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Policies; NBS-GCR-ETIP 76-03. **SP305-8.**
- Private sector; R&D; Technological change; Decisionmaking; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Policies; NBS-GCR-ETIP 76-04. **SP305-8.**
- Probabilistic basis for kinetic equations; BBGKY hierarchy equations; J.72B No. 2, 127-133 (1968). **SP305-1.**
- Probabilistic nature of damage; Surface damage; Wavelength dependence of damage; Breakdown starting time; Electron avalanche; SP372, pp. 58-69. **SP305-4.**
- Probabilities; Random sample; Two-point binomial; Variance; Distribution; Parameter; 10987. **SP305-2.**
- Probability; Evaluation; Graphs; Measurement; Networks; Performance; Petri Nets; SP406, pp. 127-130. **SP305-7.**
- Probability; Resonance; Thinning; Unresolved; Cross section; Interpolation; Monte Carlo; SP425, pp. 447-450. **SP305-7.**
- Probability; Statistics; Pierre de Fermat; Gregor Mendel; Isaac Todhunter; Anniversaries; History; 9156. **SP305.**
- Probability; Theory of games; Equilibrium; J.72B No. 2, 93-101 (1968). **SP305-1.**
- Probability; Tungsten; Deuterium; Electron stimulated desorption; Hydrogen; Isotope effect; 14439. **SP305-6.**
- Probability assessment; Standards; Utility theory; Children's sleepwear; Decision analysis; Flammable fabrics; 13596. **SP305-5.**
- Probability densities; Long-time values; Moderately dense gases; 9989. **SP305-1.**
- Probability density function; Quadrature; Stable distribution; Sums of independent random variables; Tables; Truncation; Accuracy; Approximations; Asymptotic expansion; Cauchy distribution; Characteristic function; J.77B Nos. 3 and 4, 143-198 (1973). **SP305-5.**
- Probability distribution; Linear programs; Mathematical models; Minimax estimation; Operations research; J.76B Nos. 1 and 2, 1-38 (1972). **SP305-4.**
- Probability distribution; Linear programs; Mathematical models; Minimax estimation; Operations research; J.73B No. 3, 225-230 (1969). **SP305-1.**
- Probability distribution; Linear programs; Mathematical models; Minimax estimation; Operations research; J.73B No. 3, 231-239 (1969). **SP305-1.**
- Probability distribution; Mathematical models; Minimax estimation; J.72B No. 4, 273-277 (1968). **SP305-1.**
- Probability distribution function; Reliability; Risk; Statistical analysis; Storms; Structural engineering; Wind loads; Wind speeds; Building codes; 15558. **SP305-7.**
- Probability distribution functions; Reliability; Risk; Statistical analysis; Storms; Structural engineering; Wind loads; Wind speeds; Building codes; Extreme value distributions; Hurricanes; TN868. **SP305-7.**
- Probability distribution functions; Reliability; Structural engineering; Wind (meteorology); Wind pressure; Buildings (codes); Failure; 16544. **SP305-8.**
- Probability distribution functions; Reliability; Risk; Statistical analysis; Storms; Structural engineering; Wind pressure; Wind speed; Buildings (codes); Hurricanes; 16545. **SP305-8.**
- Probability distributions; Boundary layer; Correlations; Higher-order moments; High-speed computing; Hot-wire anemometry; 13527. **SP305-5.**
- Probability distributions; Probability inequalities; Probability limit theorems; Propagation of error; Random variables; Statistical distributions; Tables of probability distributions; Transformation of variables in probability distributions; Bayes' theorem; 10926. **SP305-2.**
- Probability distributions; Relaxation; Transition probabilities; Exponential relaxation; Master equation; Moments; 9527. **SP305.**

- Probability distributions; Robust estimators; Statistical estimation; Weighted means; Wild observations; Asymptotic theory; Efficiency; Median; Order statistics; 10229. SP305-1.
- Probability inequalities; Probability limit theorems; Propagation of error; Random variables; Statistical distributions; Tables of probability distributions; Transformation of variables in probability distributions; Bayes' theorem; Central limit theorem; 10926. SP305-2.
- Probability limit theorems; Propagation of error; Random variables; Statistical distributions; Tables of probability distributions; Transformation of variables in probability distributions; Bayes' theorem; Central limit theorem; 10926. SP305-2.
- Probability master samples; Propagation of error computations; Statistical standards; Automatic data processing equipment; Confidentiality audits; Disaggregation; Disclosure criteria; Federal statistical system; Inherent computability; Matching; 9247. SP305.
- Probability master samples; Propagation of error computations; Statistical standards; Automatic data processing equipment; Disaggregation; Federal statistical system; Inherent computability; Matching; 9742. SP305-1.
- Probability plot; Statistical methods; Statistics; Tests of distributional hypotheses; Correlation coefficient; Medians; Normal distribution; Order statistics; 14856. SP305-7.
- Probability plot correlation coefficients; Probability plots; Statistics; Correlation coefficient; Data analysis; Distribution analysis; Estimation; Fortran subroutine; Lambda distribution; Medians; Normality; Order statistics; 14341. SP305-6.
- Probability plots; Residuals; Statistics; Uncertainties; Crystallographic data; Errors; NBSIR 76-1102. SP305-8.
- Probability plots; Statistics; Correlation coefficient; Data analysis; Distribution analysis; Estimation; Fortran subroutine; Lambda distribution; Medians; Normality; Order statistics; Probability plot correlation coefficients; 14341. SP305-6.
- Probability theory; Random process; Safety; Statistical analysis; Structural engineering; Failure; SP444, pp. IV-1—IV-15 (Apr. 1976). SP305-8.
- Probability theory; Ring theory; Stochastic process; Information theory; Markov process; J.75B, Nos. 3 and 4, 139-148 (1971). SP305-3.
- Probability theory; Storms; Storm surges; Wind; Coastal engineering; Damage; Hurricanes; Ocean waves; 12714. SP305-4.
- Probability theory; Wind loads; Buildings; Dynamics; Gust factor; Mode shape; BSS30, pp. 93-104. SP305-3.
- Probability theory; Wind loads; Buildings; Dynamics; Gust loads; Matrix analysis; Mode shape; BSS30, pp. 145-149. SP305-3.
- Probability-distributions; Turbulence; Velocity-gradients; Computer; Correlations; Grid; Intermittency; Isotropy; Moments; 12316. SP305-3.
- Probe; Characteristics of probe analysis; Electron microanalysis; Electron probe microanalysis; Microanalysis, electron probe; 9777. SP305-1.
- Probe; Radiation; Standards; Electromagnetic radiation; Energy density; Hazards; Measurement; Microwave radiation; TN391. SP305-2.
- Probe conduction errors; Steady periodic heat flow; Earth temperature; J.72C No. 4, 243-247 (1968). SP305-1.
- Probe correction; Probe design; Spherical scan; Antenna measurements; Data reduction; Near field; 14766. SP305-7.
- Probe design; Spherical scan; Antenna measurements; Data reduction; Near field; Probe correction; 14766. SP305-7.
- Probe loading; Probe spacing; Spreading resistance; Bevel angle measurement; Correction factor; Epitaxial layer; Impurity concentration; Ion-implanted layer; Neutron activation; SP400-10, pp. 169-178. SP305-6.
- Probe spacing; Spreading resistance; Bevel angle measurement; Correction factor; Epitaxial layer; Impurity concentration; Ion-implanted layer; Neutron activation; Probe loading; SP400-10, pp. 169-178. SP305-6.
- Probe techniques (a-c); Recombination centers; Resistivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; TN754. SP305-5.
- Probe techniques (a-c); Recombination centers; Resistivity; Ribbon-wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; TN743. SP305-4.
- Probe techniques (a-c); Resistivity; Ribbon wire bonding; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; A minimum wire; TN733. SP305-4.
- Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; A minimum wire; TN717. SP305-4.
- Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; A minimum wire; TN727. SP305-4.
- Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; A minimum wire; TN702. SP305-3.
- Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; A minimum wire; TN571. SP305-3.
- Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; A minimum wire; TN592. SP305-3.
- Probe techniques (a-c); Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; A minimum wire; TN598. SP305-3.
- Probes; Plasma physics; Plasma diagnostics; 11552. SP305-2.
- Probes; Radiation; Nonionizing fields; 16534. SP305-8.
- Probing techniques (a-c); Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; TN773. SP305-5.
- Probing techniques (a-c); Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; TN788. SP305-5.
- Problem seeking; Statement of the whole problem; User needs; Analytical procedures; Architectural programming; Building; Performance requirements; SP361, Vol. 1, pp. 43-55. SP305-4.
- Problem-oriented languages; Software usage; Documentation; Software; Economics of software; Man/machine interface problems; 9533. SP305-1.
- Problems of metrication; Codes; Construction conference; Domestic housing, U.S.; Foreign metrication; Levels of metrication; Metrication; NBSIR 73-421. SP305-6.



blems with patrol cars; State of the art survey; Functional requirements; Patrol cars; Performance of patrol cars; Police patrol cars; 15826. SP305-8.

blems with patrol cars; State of the art survey; Functional requirements; Patrol cars; Performance of patrol cars; Police patrol cars; NBSIR 75-960. SP305-8.

ederal-oriented languages; Compiler; Debugging; Error agnostic; High-level programming languages; Monitoring; 1763. SP305-5.

edure; Products; Quality; Standards; 9904. SP305-1.

edure of ICTA Standards Committee and NBS; Standard thermal analysis; Transition from I to III; Potassium nitrate; 1906. SP305-7.

edures; Instrumentation; Isotopic analyses; Mass spectrometry; TN426. SP305.

edures; Instrumentation; Isotopic analyses; Mass spectrometry; TN456. SP305-1.

edures; Instrumentation; Isotope dilution; Isotopic analyses; Mass spectrometry; TN506. SP305-2.

edures; Instrumentation; Isotopic analysis; Mass spectrometry; TN546. SP305-2.

edures; Isotopic analysis; Mass spectrometry; Instrumentation; TN277. SP305.

edures; Recall; Reliability; Traceability; Calibration codes; Calibration system specification; Intervals; SP335, pp. 47-50. SP305-3.

edures; Regulations; Requirements; Technology; Weights and measures; Administration; Conference; Laws; SP379. SP305-5.

edures; Regulations; Textiles; Wearing apparel; Carpets; Fabrics; Flammable Fabrics Act; National Advisory Committee; 11105. SP305-2.

edures; Technical requirements; Technology; Universal product coding; Weights and measures; Administration; Automated checkstand systems; Conference; Consumers; Laws and regulations; Metrication; Open dating; SP391. SP305-6.

edures, experimental for handling fluorine; Bomb calorimetry with fluorine; Enthalpy of formation, fluorides; Flame calorimetry of fluorine and fluorides; 16100. SP305-

eedings NCSL; Metrology management; National Conference of Standards Laboratories; Physical measurement; 2335. SP305-3.

eedings, 1966 Standards Laboratory Conference; Traceability; United States measurement system; Accuracy; Calibrations; Conferences, 1966 Standards Laboratory; Foreign standards laboratories; Laboratory management; Measurements and standards; M291. SP305.

ess activity; Unidentified process losses; Inventory fluctuations; Measurement errors; Normalization factors; 12870. SP305-4.

ess control; Analytical inspection; Composite inspection; ears; Index; Involute; Lead; Metrology; 10762. SP305-1.

ess control; Analytical inspection; Composite inspection; ears; Index; Involute; Lead; Metrology; 9858. SP305-1.

ess control; Process modeling; Spreading resistance; Arsenic; Boron; Design; Device modeling; Doping distribution; Phosphorus; SP400-10, pp. 235-248. SP305-6.

ess control; Programming languages; Laboratory automation; 14379. SP305-6.

ess control; Real-time; RTOS; Automation; Calibration; Fuel control; Jet engine; Minicomputer; Multi-task; Performance testing; 15550. SP305-7.

ess control; Reliability; Semiconductor devices; Silicon; Wire bonding; Die bonding; Hermeticity; Integrated circuits; Measurement methods; Microelectronics; Oxides; Photolithography; SP400-3. SP305-6.

ess control; Reliability; Semiconductor; Automation; Integrated circuits; Measurements; Microelectronics; 16116. SP305-8.

Process control; Reliability; Semiconductors; Silicon; Test patterns; Data acquisition; Data display; Integrated circuits; Measurement technology; Microelectronics; SP 400-15. SP305-8.

Process control; Reliability; Semiconductor devices; Surgical implants; Cardiac pacemaker; Data banks; Failure analysis; Failure modes; Hermeticity; Hybrid devices; Leak testing; Measurement technology; Microelectronics; MOS devices; SP400-28. SP305-8.

Process description; University facilities; Acoustical environment; Administrative procedures; Communication; Environmental criteria; Functional criteria; Interior finishes criteria; Luminous environment; Measurement; SP361, Vol. 1, pp. 331-337. SP305-4.

Process evaluation; Shape; Contours; Datum deformation; Irregular areas; Length; Linear measurement; 10148. SP305-1.

Process evaluation; Shape; Contours; Datum deformation; Irregular areas; Length; Linear measurement; 10173. SP305-1.

Process losses; Material balance accounting; Nuclear materials safeguards; 16263. SP305-8.

Process modeling; Spreading resistance; Arsenic; Boron; Design; Device modeling; Doping distribution; Phosphorus; Process control; SP400-10, pp. 235-248. SP305-6.

Process uniformity; Random faults; Reliability; Test patterns; TTL; Vendor qualification; Circuit procurement; Component screening; Custom circuits; LSI; Microelectronics; Parameter control; 16620. SP305-8.

Process variability; Uncertainty; Measurement algorithm; Measurement assurance; Measurement process; Measurement unit; Monogr. 149. SP305-7.

Processability; Rubber testing; Standardization; Vulcanization; Cure meter; Mooney viscometer; Oscillating-disk cure meter; 14431. SP305-6.

Processing; Radiation; Shielding; Analysis; Cross sections; Evaluation; Information; SP425, pp. 363-366. SP305-7.

Processing; Radiation; Threshold energies; Detection; Induced radioactivity; Maximum permissible concentrations; Photoneuclear reactions; 9853. SP305-1.

Processing; Technical strategy; Design; Development; Fabrication; Life cycle costing; Materials policy; Nondestructive evaluation; Performance; 15873. SP305-8.

Processing parameters, pultrusion; Pultrusion; Reinforced plastic rod; Stress rupture of FRP rod; Test methods, FRP rod; Weatherability, FRP rod; Composite materials; Fiber-reinforced-plastic rod; Glass-reinforced-polyester rod; Guys, antenna; NBSIR 74-557. SP305-7.

Procurement; Product improvement; Specifications; ETIP; Incentives; Innovation; NBSIR 75-696. SP305-7.

Procurement; Product testing; Specifications; Unsolicited proposals; Certification programs, ETIP; Incentives; Innovation; Life cycle costing; NBSIR 75-716. SP305-7.

Procurement; Response; Service; Computer; Interactive; Measurement; 16247. SP305-8.

Procurement; Services; Users-Productors; Creative-partnership; Management; Operating; SP383. SP305-5.

Procurement; Specifications; Standards; Tests; User needs; Carpets; Floor coverings; Government; Performance; TN822. SP305-6.

Procurement; Specifications; Standards; Technology; Transfer; Innovation; 15595. SP305-7.

Procurement experiments; Electric ranges; Energy efficient products; Experimental Technology Incentives Program; Life cycle costing; NBS-GCR-ETIP 76-09. SP305-8.

Procurement experiments; Energy-efficient products; Experimental Technology Incentives Program; Gas and electric ranges; Life-cycle costing; NBSIR 76-1027. SP305-8.

Procurement experiments; Energy efficient products; Experimental Technology Incentives Program; Gas ranges; Life cycle costing; NBS-GCR-ETIP 76-15. SP305-8.

- Procurement experiments; Procurement procedures; Proposal evaluation procedures; Proposal preparation procedures; Evaluation systems; Experimental Technology Incentives Program; *NBSIR 76-1124. SP305-8.*
- Procurement experiments; Refrigerator-freezers; Energy-efficient products; Experimental Technology Incentives Program; Life-cycle costing; *NBSIR 75-954. SP305-8.*
- Procurement experiments; Refrigerators; Energy efficient products; Experimental Technology Incentives Program; Life cycle costing; *NBS-GCR-ETIP 76-10. SP305-8.*
- Procurement experiments; Room air conditioners; Energy efficient products; Experimental Technology Incentives Program; Life cycle costing; *NBS-GCR-ETIP 76-13. SP305-8.*
- Procurement experiments; Water heaters; Energy-efficient products; Experimental Technology Incentives Program; Life-cycle costing; *NBSIR 76-983. SP305-8.*
- Procurement experiments; Water heaters; Energy efficient products; Experimental Technology Incentives Program; Life cycle costing; *NBS-GCR-ETIP 76-14. SP305-8.*
- Procurement experiments; Window air conditioners; Energy efficient products; Experimental Technology Incentives Program; Life cycle costing; *NBS-GCR-ETIP 76-19. SP305-8.*
- Procurement guidelines; Protective equipment; Security systems vehicles; Voluntary standards; Weapons; Building systems; Communications equipment; Concealed objects detectors; Emergency equipment; Law Enforcement Standards Laboratory; *15325. SP305-7.*
- Procurement mechanisms; Technology incentives; ETIP; Government procurement; Performance specifications; *NBS-GCR-ETIP 73-02. SP305-8.*
- Procurement policies; Product testing; Specifications; Unsolicited proposals; VA; Certification programs; ETIP; Incentives; Innovation; Life cycle costing; Medical products and standards; *NBSIR 76-997. SP305-8.*
- Procurement policy; Regulatory policy; Small business policy; Technology; Civilian R&D policy; ETIP; Incentives; Innovation; *NBSIR 75-778. SP305-7.*
- Procurement policy; Specifications; Value; Experimental Technology Incentives Program (ETIP); Federal Supply Service; Life cycle costing; *NBS-GCR-ETIP 76-18. SP305-8.*
- Procurement policy; Specifications; Value incentives; Computer air conditioning units; Experimental Technology Incentives Program (ETIP); Federal Supply Service; Life cycle costing; *NBS-GCR-ETIP 76-23. SP305-8.*
- Procurement policy; State government; Bid evaluation; Experimental Technology Incentives Program (ETIP); Innovation; Life cycle costing; Local government; *NBS-GCR-ETIP 76-17. SP305-8.*
- Procurement procedures; Proposal evaluation procedures; Proposal preparation procedures; Evaluation systems; Experimental Technology Incentives Program; Procurement experiments; *NBSIR 76-1124. SP305-8.*
- Procurement process; SCSD; Structure; Subsystem; URBS; ABS; Building systems; College buildings; Dormitories; HVC; Laboratories; Lighting/ceiling; Performance specifications; *SP361, Vol. 1, pp. 303-315. SP305-4.*
- Product certification; Standards; U.S. Metric Study; Engineering standards; IEC; International standardization; ISO; Metric study; *PL 90-472; SP345-1. SP305-2.*
- Product classes; Test methods; Voluntary; Education; Efficiency comparison; Household appliances; Household equipment; Label developments; Labeling; Label specification; Monitoring priorities; *15204. SP305-7.*
- Product defect; Safety standards; Swing set; Test method; Component; Criteria; Development; Equipment; Hazard; Hazardousness; Home playground; Identification; Mishap; Misuse; *14597. SP305-6.*
- Product  $D^*(n=4)$ ; Cross sections;  $D_1^+$ ; Dissociative recombination; *14865. SP305-7.*
- Product improvement; Specifications; ETIP; Incentives; Innovation; Procurement; *NBSIR 75-696. SP305-7.*
- Product ions; Ethane; Gas phase kinetics; Ion-molecule reactions; Mass spectrometer; *15111. SP305-7.*
- Product performance; Product reliability; Product testing; Consumer products; Marketing; Mechanical failure; *SP423, pp. 209-212 (Apr. 1976). SP305-8.*
- Product performance; Product safety; Standards; Human factors ergonomics; *16089. SP305-8.*
- Product performance; Product safety; Bibliographies; Consumer product safety; Consumer product standards; Consumer product technology; Law enforcement equipment; Law enforcement equipment standards; *NBSIR 76-1066. SP305-8.*
- Product performance; Technology; Environmental pollution; Performance specifications; *12570. SP305-4.*
- Product performance; Technology; Technology assessment; *12543. SP305-4.*
- Product property; Strip operator approximation; Asymptotic behavior at large cluster separations; Banach space; Kirkwood-Salsburg equation; Perturbation expansion; *13628. SP305-5.*
- Product reliability; Product testing; Consumer products; Marketing; Mechanical failure; Product performance; *SP423, pp. 209-212 (Apr. 1976). SP305-8.*
- Product rule; Tensor function; Trace; Chain rule; Continuum mechanics; Gradient; Matrices; Matrix calculus; Partial differentiation; *1758, Nos. 3 and 4, 97-107 (1971). SP305-3.*
- Product safety; Accident data; Data systems; Fabric flammability; FFACIS; Fire accidents; Fire data systems; Fire hazards; Fires; Hazard analysis; NEISS; Plastics flammability; *16361. SP305-8.*
- Product safety; Bibliographies; Consumer product safety; Consumer product standards; Consumer product technology; Law enforcement equipment; Law enforcement equipment standards; Product performance; *NBSIR 76-1066. SP305-8.*
- Product safety; Emergency messages; Hearing loss; Law mowers; Noise emission; Noise pollution; *NBSIR 74-601. SP305-7.*
- Product safety; Environmental tests; *NBSIR 74-590. SP305-7.*
- Product safety; Product testing; Safety regulations; Standard development; Baby cribs; Children's furniture; *NBSIR 74-714. SP305-7.*
- Product safety; Radiation; Radiation effects; Resonant cavity; Rhesus; Suppression; Behavior; Behavioral suppression; Exposure; Microwave radiation; Microwaves; *15194. SP305-7.*
- Product safety; Refrigerator standards; Risk measurement; Safety standard; Unreasonable hazards; Consumer product; *16131. SP305-8.*
- Product safety; Regulation; Standards; Consumer; *1549. SP305-7.*
- Product safety; Research; Science and technology; Standard; Annual report; Computer; Energy; Environment; Health; *SP418. SP305-7.*
- Product safety; Research; Science; Standards; Technology; Annual report; Computer; Energy; Environment; Measurement; *SP437. SP305-7.*
- Product safety; Residence-related products; Residential safety; Safety implementation approaches; Safety standards; Building codes; Consumer Product Safety Act; *NBSIR 75-651. SP305-7.*
- Product safety; Safety; Safety research; Appliances; Behavior science; Human factors; *16215. SP305-8.*
- Product safety; Safety requirements; Safety testing; Consumer products; CPSC proposed regulation; Pacifiers; *NBSIR 74-733. SP305-7.*
- Product safety; Safety test; Burns; Instrumentation; *1450. SP305-6.*
- Product safety; Sampling; Standards; Flammable fabrics; *SP418, pp. 16-19. SP305-6.*

- Product safety; Standards; Human factors ergonomics; Product performance; 16089. SP305-8.
- Product safety; Standards; Test methods; Conservation; Consumer satisfaction; Economic design; 13123. SP305-5.
- Product standards; Programming language; Air conditioners; Buses, subway cars; Centennial; Electric power; Environment; Ethane data; Facilities; Fire research; Fire safety; Graphs; DIM/NBS 59, No. 7, 145-168 (1975). SP305-7.
- Product standards; Recommended practices; Specifications; Test methods; Certification programs; Consumer products; Household products; Industry standards; International recommendations; National standards; TN762. SP305-5.
- Product standards; Safety; Consumer products; Flammable liquid containers; Gasoline cans; Mechanical tests; NBSIR 74-614. SP305-7.
- Product standards; Specifications; Standardization; Standards; Information sources; KWIC Index; Plant engineering; 12804. SP305-4.
- Product Standards; Standard; Voluntary Product Standards; Editorial format; Format; PS0-70. SP305-3.
- Product standards; Standardization; New technology; Performance standards; 12245. SP305-3.
- Product standards; Standards; Certifications programs; Consumer products; Household products; Industry standards; International recommendations; National standards; TN705. SP305-4.
- Product standards; Standards format; Editorial format; PS0-67. SP305-1.
- Product testing; Consumer products; Marketing; Mechanical failure; Product performance; Product reliability; SP423, pp. 209-212 (Apr. 1976). SP305-8.
- Product testing; Safety regulations; Standard development; Baby cribs; Children's furniture; Product safety; NBSIR 75-714. SP305-7.
- Product testing; Specifications; Unsolicited proposals; Certification programs; ETIP; Incentives; Innovation; Life cycle costing; Procurement; NBSIR 75-716. SP305-7.
- Product testing; Specifications; Unsolicited proposals; VA; Certification programs; ETIP; Incentives; Innovation; Life cycle costing; Medical products and standards; Procurement policies; NBSIR 76-997. SP305-8.
- Product-dimensions; Building industry; Conversion; Engineering; Human and modular standards; Metrication; 15454. SP305-7.
- Production; Cryogenic; Fluid transport; Freezing; Hydrogen-liquid solid; 9926. SP305-1.
- Production; Rate; Cryogenic; Crystallization; Freezing; Growth; Hydrogen; Liquid-solid phase; Melting; Nucleation; Particle size; 9925. SP305-1.
- Production; Safety; Storage; Cryogenic technology; Data; Energy fuel; Hydrogen; Hydrogen properties; LNG/SNG; TN664. SP305-7.
- Production; Solar; Storage; Transmission; Transportation; Utilities; Conservation; Conversion; Cost; Cryogenics; Economics; Embrittlement; Energy; Hydrogen; Industrial; Instrumentation; Liquefaction; Literature; Materials; SP419. SP305-7.
- Production capacity; Production management; Production methods; Standardization; United Soviet Socialist Republics; Building economics; Building systems; Construction industry; Housing; Precast concrete; SP334. SP305-3.
- Production cross sections; Radioactivity; Spallation; Aluminum; GeV electrons; Iron; Photoneuclear; 12697. SP305-4.
- Production cross sections; Spallation products; 3-13 GeV electron beam; Photon energy; 12856. SP305-4.
- Production functions; Transportation; Weber problem, mathematical programming; CES; Economics; Leontief; Location theory; Plant location; J78B No. 2, 79-94 (1974). SP305-6.
- Production indices; Production measurement; Impact; Objectives, output; Performance measurement; TN890. SP305-7.
- Production management; Production methods; Standardization; United Soviet Socialist Republics; Building economics; Building systems; Construction industry; Housing; Precast concrete; Production capacity; Production management; SP334. SP305-3.
- Production of atomic vapor; Zinc; Accuracy; Atomic fluorescence; Automatic scatter correction; Cadmium; Chemical interferences; Data evaluation; Precision; 15012. SP305-7.
- Production of synthetic food; Synthetic food materials; Urea; Yeast; Amino acids; Food additives; Food problem; 11136. SP305-2.
- Production statistics; Administrative operations; Data handling; Data storage and retrieval; Information handling technology; Information processing; Intellectual process; Patent examination; Patent Office; Patent storage; TN834. SP305-6.
- Productivity; Reliability; Reproducibility; Safety; Accuracy; Conservation; Measurements; Nondestructive evaluation; 16301. SP305-8.
- Productivity; Service industries; Automation; Computers; NBSIR 74-515. SP305-6.
- Productivity; Service sector; Automation; Consumers; Innovation; Institutional barriers; 16319. SP305-8.
- Productivity; Services—state/local government; Automation; Computer utilization; Dedicated computers; EDP expenditure; Employment; Finance; 16075. SP305-8.
- Productivity; Subway; Calculable capacitor; Color; Computer simulation; Electricity; Energy-environment; Fire safety; Measurement system; Nuclear power plant; DIM/NBS 59, No. 12, 266-291 (1975). SP305-7.
- Productivity improvement; Public services; Social impact of automation; Automation technology; Economic impact of automation; SP448. SP305-8.
- Products; Propagation of error; Random; Ratio; Systematic; Sum; Approximation; Error; Formula; Imprecision; Law of error; J70C4-237, 263-273 (1966). SP305.
- Products; Quality; Standards; Procedure; 9904. SP305-1.
- Products; Tensor; Trees; Digraphs; Graphs; J74B No. 4, 235-237 (1970). SP305-2.
- Products of squares; Squares, products; Commutators; 14091. SP305-6.
- Professional environment; Professional personnel; Scientists and engineers; Standing committee; Technical personnel; Environment; Personnel; 9271. SP305.
- Professional interaction; Cooperative programs; Foreign visitors; Information exchange; International building technology; International organization memberships; NBSIR 74-432. SP305-6.
- Professional interaction; Cooperative programs; Foreign visitors; Information exchange; International building technology; International organization memberships; NBSIR 74-514. SP305-7.
- Professional personnel; Scientists and engineers; Standing committee; Technical personnel; Environment; Personnel; Professional environment; 9271. SP305.
- Professional qualifications; Fire protection; Future trends; 16198. SP305-8.
- Professional societies; Publications; Reference data; Journal; 15734. SP305-8.
- Professional societies; Radiometry; Standards; Measurement system; Photometry; TN594-6. SP305-6.
- Proficiency testing; Accuracy; CLIA '67; Clinical chemistry; Hematology; Microbiology; Precision; 13564. SP305-5.

- Proficiency testing; Accuracy; Clinical chemistry; Hematology; Medical usefulness; Microbiology; *13779. SP305-5.*
- Profile; Profile extrusions; PVC profile extrusions; Rigid PVC; Extrusions; Poly(vinyl chloride); *PS26-70. SP305-2.*
- Profile; Standard deviation; Uncertainty; Calibration; Diameter; Gravitational bending; Interferometry; Least squares line; Linear model; Optical flat; *NBSIR 75-975. SP305-8.*
- Profile; Surface; Surface instrumentation; Surface metrology; Topography; Tunneling; Diffraction grating; Field emission; Micrometrology; *12919. SP305-4.*
- Profile extrusions; PVC profile extrusions; Rigid PVC; Extrusions; Poly(vinyl chloride); Profile; *PS26-70. SP305-2.*
- Profile measurement; Valance emission bands; Emission spectrum; Germanium; *13354. SP305-5.*
- Profile scans; Stark profiles; T-tube; C II; Ca II; Experimental; Monochromator; *10220. SP305-1.*
- Profile tracer; Tires; Noise; Pavement macrotexture; *NBS-GCR-75-35. SP305-8.*
- Profile variation mechanism; Features observed in  $H\alpha$ ;  $H\alpha$  filtergrams; Lateral contrasts in intensity; *14030. SP305-6.*
- Profiles; Resistivity profiling; Small spacing; Spreading resistance; Accuracy; Bevelled structures; Correction application; Correction factors; Edge effect; *SP400-10, pp. 51-61. SP305-6.*
- Profiles; Sensitivity; Uncertainties; Air transport; Benchmark; *SP425, pp. 825-833. SP305-7.*
- Profiling; Spreading resistance; Thin silicon layers; Diffusion; Epitaxy; Ion implantation; Microwave devices; *SP400-10, pp. 209-216. SP305-6.*
- Profilometer; Profilometer rasters; Quantitative characterization; Scanning electron microscope; Surface finish analysis; Surface morphology; Surface roughness; Surface topography; Three-dimensional images; Ceramic Materials; *SP348, pp. 309-316. SP305-4.*
- Profilometer rasters; Quantitative characterization; Scanning electron microscope; Surface finish analysis; Surface morphology; Surface roughness; Surface topography; Three-dimensional images; Ceramic Materials; *SP348, pp. 309-316. SP305-4.*
- Program; Test; Assessment; Complex; Composite; Computer; Criteria; Evaluation; Gaussian primes; Indexing; Measurement; Performance; Prime; *TN572. SP305-3.*
- Program analysis; Software correctness; Software verification; Symbolic program evaluation; Automatic testing; Computer program testing; FORTRAN programs; *NBS-GCR-76-69. SP305-8.*
- Program analysis; Software verification; Automatic testing; Computer program testing; FORTRAN programs; *NBS-GCR-75-46. SP305-8.*
- Program analysis; Software verification; Automatic testing; Computer program testing; FORTRAN programs; *NBS-GCR-75-47. SP305-8.*
- Program captioning; Television; Time and frequency dissemination; TVTime; Digital code; Integrated circuit chip; *13738. SP305-5.*
- Program complexity; Program measurement static; Dynamic analysis; Errors; Evaluation; *16650. SP305-8.*
- Program conversion; Programming aids; Programming languages; COBOL; Federal Standard COBOL; *FIPS PUB 43. SP305-7.*
- Program descriptions; National Bureau of Standards; Organization; Overview; *SP367. SP305-4.*
- Program evaluation and analysis; Programming, planning, budgeting studies; Benefit-costs; Cost-effectiveness; Economic benefits studies; Engineering seismology; *10531. SP305-1.*
- Program measurement static; Dynamic analysis; Errors; Evaluation; Program complexity; *16650. SP305-8.*
- Program modifications; Type; Abstract data types; Cluster; Data abstraction; Data type; Module; Programming methods; *16246. SP305-8.*
- Program planning and budgeting; R&D management; System analysis; Systems approach; Biomedical research; "health relevance"; *TN761. SP305-5.*
- Program Selector Board; Data handling system; Interruptable computer; Neutron time-of-flight; Neutron total cross section; On-line computer; *TN515. SP305-2.*
- Program validation; Programming; Proofs of correctness; Referential transparency; Software quality; Structured programming; Top-down programming; Control structure GOTO-less programming; *TN842. SP305-6.*
- Programmable controller; Computer-controlled experiment; Computer interfacing; Data acquisition system; Digital interface; Instrumentation; Laboratory automation; MIDA; *TN790. SP305-5.*
- Programmable desk calculator; Standard cell comparator; Automated; Calculator; Calibration; Crossbar switch; Low-voltage measurements; MIDAS; *15906. SP305-8.*
- Programmable potentiometer; Self-balancing potentiometer; Thermometry; Automatic potentiometry; Automation; Calorimetry; Diesselhorst ring; Potentiometer; *J. Res. 80, No. 4, 669-675 (July-Aug. 1976). SP305-8.*
- Programmable robots; Specifications; Guidelines; Industrial robots; Manipulator; Performance evaluation; *SP459. SP305-8.*
- Programmed document distribution; Relaxation oscillator; Rotatable document bin array; Seat belt webbing abrasion; Abrasion resistance testing; Automatic document distribution; Flexible tubing pump; Inverting amplifiers; Laser beam phase shift; *TN437. SP305-5.*
- Programmed instruction; Field investigation; Fire information; Fire investigations; Fire training; *SP411, pp. 215-229. SP305-6.*
- Programmer's documentation; Short line mileage; Waybill file; *16241. SP305-8.*
- Programming; Architecture; Building systems; Construction management; Design; Hospital design; Medical facilities; Performance; Planning; *BSS54, pp. 49-62. SP305-6.*
- Programming; Proofs of correctness; Referential transparency; Software quality; Structured programming; Top-down programming; Control structures; GOTO-less programming; Program validation; *TN842. SP305-6.*
- Programming; Quality software; Software engineering; *TN832. SP305-6.*
- Programming; Simulation; Storage; Data recording; Debugging; Holography; Information control; Input-output; Integrated circuits; Lasers; Memory systems; Multiprocessing; Networks; On-line systems; *Monogr. 113, Volume 3. SP305-2.*
- Programming; Spectrochemical analysis; Time-sharing computer; X-ray spectroscopy; Analytical chemistry; Calculations; Computers; Emission spectroscopy; *TN407. SP305-1.*
- Programming; Statistical analysis; Teaching sample; Word-term pairing; Automatic indexing; COBOL; Document record; *12858. SP305-4.*
- Programming; Structured programming; Top-down design; GOTO statements; Hierarchical design; *14557. SP305-6.*
- Programming; Text editing; Character generation; Composition language; Computer technology; Computerized text processing; Electronic composition; Electronic computer; Electronic printing; GRACE; Linotron; MACRO coding; MEDLARS; Microfilm; *SP295. SP305-1.*
- Programming aids; Programming languages; Source-statement analysis; Syntax analysis; Data archives; Language use; *TN797. SP305-5.*
- Programming aids; Programming languages; COBOL; Federal Standard COBOL; Program conversion; *FIPS PUB 43. SP305-7.*



- programming aids; Syntax analysis; Computation and flow analysis; FORTRAN language use; *TN849*. SP305-6.
- programming aids; Syntax analysis; Computation and flow analysis; FORTRAN use; *15348*. SP305-7.
- programming language; Air conditioners; Buses, subway cars; Centennial; Electric power; Environment; Ethane data; Facilities; Fire research; Fire safety; Graffiti; Product standards; *DIM/NBS 59*, No. 7, 145-168 (1975). SP305-7.
- programming language; Data base; Data retrieval; Data structure; Information storage and retrieval; Language extension; Microprocessor; *TN590*. SP305-3.
- programming language; Software; COBOL; Data processing; Federal Information Processing Standard; Information interchange; Information processing; *FIPS PUB 21*. SP305-4.
- programming language; Software; COBOL; Compilers; Data processing; Federal Information Processing Standard; Information interchange; Information processing; *FIPS PUB 29*. SP305-6.
- programming language; Software; COBOL; Data processing; Federal Information Processing Standard; Information interchange; Information processing; *NBSIR 74-487*. SP305-6.
- programming language; Software; Standards conformance; COBOL; Data processing; Federal Information Processing Standard; Information interchange; Information processing; *FIPS PUB 21-1*. SP305-7.
- programming language standards; ADP standards; BASIC; Compilers; Compiler validation; Computer programming; Normal language; *NBS-GCR-73-17*. SP305-8.
- programming languages; COBOL; Federal Standard COBOL; Program conversion; Programming aids; *FIPS PUB 43*. SP305-7.
- programming languages; Data management; Data structures; File organization; Information retrieval; Information systems; *1008*. SP305-3.
- programming languages; Laboratory automation; Process control; *14379*. SP305-6.
- programming languages; Source-statement analysis; Syntax analysis; Data archives; Language use; Programming aids; *1797*. SP305-5.
- programming languages; Speech and speaker recognition; Artificial intelligence; Automatic abstracting; Automatic indexing; Computational linguistics; Computer centers; Documentation; Information storage; Selection and retrieval; Library automation; *TN462*. SP305-1.
- programming methods; Program modifications; Type; Abstract data types; Class; Cluster; Data abstraction; Data type; Module; *16246*. SP305-8.
- programming, planning, budgeting studies; Benefit-costs; Cost effectiveness; Economic benefits studies; Engineering methodology; Program evaluation and analysis; *10531*. SP305-
- programming techniques; Transportable; User-oriented computing system; Accuracy; Algorithms; ANSI FORTRAN; Documentation; Error checking; Machine independent; OMNITAB operating system subprograms; OMNITAB II source listing; *P339*. SP305-3.
- programs; SDS 920; Digital computer; Experiment; Modular; Nuclear data; On-line; *10138*. SP305-1.
- programs; Spectrochemical analysis; Computers; Microphotometry; Photographic emulsion; Photographic photometry; *11385*. SP305-2.
- programs; Spectrochemical analysis; Computers; Emulsion; Microphotometry; Photographic emulsion; Photographic photometry; Photometry; *11510*. SP305-2.
- programs for architects; Research communication; AIA/NBS architect-in-Residence; Architectural research; Daylight project; National Bureau of Standards; *15606*. SP305-7.
- programs, textile testing; Test methods, textile; Testing equipment, textile; Textile testing; Apparel materials; Equipment, textile testing; Fabric defects; Physical properties, fabrics; *10843*. SP305-1.
- Programs, textile testing; Test methods, textile; Testing equipment, textile; Apparel materials; Equipment, textile testing; Physical properties, fabrics; *10844*. SP305-1.
- Progress; Reflection coefficient; Review; Standards; Survey; Antenna gain; Attenuation; Field strength; Impedance; Measurement; Microwave; Noise; Phase shift; Power; *9565*. SP305-1.
- Progress; Standards; State-of-the-art; Modules; Nuclear instruments; *9209*. SP305-5.
- Progress; Standards; State-of-the-art; Modules; Nuclear instruments; *9646*. SP305-1.
- Progress in radio measurements; Thermal noise measurements; Voltage measurements; Attenuation measurements; Field strength measurements; High frequency measurements; Impedance measurements; Phase measurements; *10182*. SP305-1.
- Progress report; Standards; Temperature scale; Thermometry; Annual report; Calibrations; *TN869*. SP305-7.
- Progressive collapse; Abnormal loading; Building; Gas explosion; Load-bearing masonry; Load-bearing walls; Masonry; Masonry research; *NBSIR 74-526*. SP305-7.
- Progressive collapse; Regulatory process; Abnormal loading; Building regulations; Design process; European; *NBS-GCR-75-48*. SP305-8.
- Progressive collapse; Risk; Stability; Standards; Strength; United States; Abnormal loading; Building; Codes; Design criteria; Multistory; *13475*. SP305-5.
- Progressive collapse; Risk; Statistics; Structure; Building; Explosion; Frequency; Gas; Gas industry; *13782*. SP305-5.
- Progressive collapse; Sonic boom; Vehicular collision; Bombs; Building codes; Design criteria; Explosions; Gas; Hazardous materials; Loads; *BSS89*. SP305-8.
- Progressive collapse; Specific resistance; Abnormal loading; Alternate path; Annotated bibliography; Bibliography; Building code; Building regulations; Collapse; Failures; *BSS67*. SP305-8.
- Progressive collapse; Standards; Benefit-cost analysis; Building safety; Economics; *NBSIR 74-542*. SP305-7.
- Progressive collapse; Structural connection; Structural design; Wind load; Design standards; Earthquake load; Masonry construction; Precast concrete construction; *15369*. SP305-7.
- Progressive collapse; Structural design; Structural joints; Building systems; Housing systems; Large-panel structures; Precast concrete construction; *NBSIR 75-715*. SP305-7.
- Progressive collapse; Tall buildings; Accident occurrence; Building; Gas explosion; Hazards; *14105*. SP305-6.
- Progressive collapse of buildings; Residential buildings; Vehicular impact; Collisions of vehicles with buildings; Multistory buildings; *13781*. SP305-5.
- Project evaluation; Transit operations; Bus transit; Busway operations; Commuter travel behavior; Express bus-on-freeway operations; *NBSIR 74-464*. SP305-6.
- Project management; System integration; Automation; Human relations; Job enrichment; Organizational development; *15570*. SP305-7.
- Project plans; Protective equipment; Security equipment; Standards; Warning lights and sirens; Anthropometry; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; Performance standards; *NBSIR 74-529*. SP305-6.
- Project plans; Protective equipment; Security equipment; Standards; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; Performance standards; *NBSIR 74-568*. SP305-6.
- Project summaries; Hydraulic engineering; Hydraulic research; Hydraulics; Hydrodynamics; *SP316*. SP305-1.
- Project summaries; Quantitative numerical data; Industrial process data; *NBSIR 76-1002*. SP305-8.

- Project summaries; Standards; Technical bases; Building research; Building technology; Codes; Criteria; *SP446*. SP305-8.
- Projectiles; Ceramics; Fracture; Impact; *13744*. SP305-5.
- Projection operator; Raman scattering; Time correlation function; Depolarized Rayleigh scattering; Ideal gas; Incoherent neutron scattering; Infrared absorption; Liquid state; Memory function; *J78A No. 3, 413-420 (1974)*. SP305-6.
- Projection operator method; Self diffusion coefficient; Time correlation function; Transport coefficient; Cluster expansion method; Dense gases; *10931*. SP305-2.
- Projectors; Radiance; Radiometry; Reflectometry; Emissivity; Flashing light; Flux measurement; Irradiance; Material properties; Photometry; *SP300, Vol. 7*. SP305-3.
- Projects; Description; LNGs; *14176*. SP305-6.
- Proliferation; Quantity standards; Regulations; Consumer commodities; Labeling; Packaging; *12259*. SP305-3.
- Proliferation; Voluntary standardization; Aerosols; Fair Packaging and Labeling Act; Packages; *14720*. SP305-7.
- Proliferation of specifications; Environmental extremes; Fail-safe operation; High strength materials; Mechanical failure; Potential service conditions; *SP423*, pp. 193-197 (Apr. 1976). SP305-8.
- Proline; Ring conformation; Substituent effects; Amides; Carbon-13 magnetic resonance; Chemical shifts; Cis and trans isomers; Peptides; *16235*. SP305-8.
- Promethium; Rare earth; Atomic spectroscopy; Electronic energy levels; Neutral atom; *J71A6-475, 587-599 (1967)*. SP305.
- Promethium; Rhenium; Rubidium; Sodium; Surface diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; *J. Phys. Chem. Ref. Data 4, No. 1, 177-250 (1975)*. SP305-7.
- Promethium; Samarium; Terbium; Thulium; Ytterbium; Cerium; Dysprosium; Erbium; Europium; Gadolinium; Hafnium; Holmium; Ionization energy; Lanthanum; Lutetium; Neodymium; Praseodymium; *13703*. SP305-5.
- Promethium compounds; Rare-earth elements; Samarium compounds; Terbium compounds; Thulium compounds; Ytterbium compounds; Cerium compounds; Dysprosium compounds; Enthalpy; Entropy; Erbium compounds; Europium compounds; Gadolinium compounds; *TN270-7*. SP305-5.
- Promethium 147; Electronic structure; Energy levels; Hollow cathode; Hyperfine structure; Interferometer; Nuclear moments; Optical; *10006*. SP305-1.
- Prompt fission neutron spectrum; T-O-F technique; U-235; Fast neutron fission; *SP425*, pp. 631-634. SP305-7.
- Prompt neutron; Scission point; Statistical theory; Actinide nuclide; Fast-neutron-induced fission; Fission; Fission fragment; Fission product; Kinetic energy; Mass yield; *SP425*, pp. 342-345. SP305-7.
- Proof of correctness; Software reliability; Static analysis; Testing software; Dynamic analysis; *14640*. SP305-6.
- Proof stress diagrams; Proof testing; Ceramics; Failure probability; Minimum time-to-failure; *14578*. SP305-6.
- Proof testing; Ceramics; Crack growth; Delayed failure; Fracture; *14290*. SP305-6.
- Proof testing; Ceramics; Failure probability; Minimum time-to-failure; Proof stress diagrams; *14578*. SP305-6.
- Proof testing; Crack propagation; Failure prevention; Fracture; Glass; *13348*. SP305-5.
- Proof testing; Research associate program; Sampling test; Drop ball test; Impact resistance; Ophthalmic lens; *NBSIR 76-996*. SP305-8.
- Proof testing; Residual strain; Acoustic emission; Macrocracking; Porcelain insulators; *16069*. SP305-8.
- Proof testing; Slow crack growth; Unloading; Failure probabilities; Lifetime assurance; *16039*. SP305-8.
- Proof testing; Static fatigue; Stress corrosion; Fracture; Glass; *14576*. SP305-6.
- Proof testing; Weibull analysis; Ceramics; Crack propagation; Delayed failure; Fracture; *NBSIR 74-486*. SP305-6.
- Proof testing; Weibull analysis; Ceramics; Crack propagation; Delayed failure; Fracture; *15419*. SP305-7.
- Proofs of correctness; Referential transparency; Software quality; Structured programming; Top-down programming; Control structures; GOTO-less programming; Program validation; Programming; *TN842*. SP305-6.
- Propagation; Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; Absorbance; Control; Modulation; Notation; Optical density; *9373*. SP305.
- Propagation; Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; Modulation; Notation; Optical density; *15564*. SP305-7.
- Propagating modes; Scattering function; Short wavelength; Selective excitations; Liquid rubidium; Neutron scattering; *15207*. SP305-7.
- Propagation; Acoustic modes; Auroras; Gravity (thermodynamic); Pressure waves; *10767*. SP305-1.
- Propagation; Alfven; Dispersion; Hydromagnetic; Magnetosphere; Multicomponent; Pc 1 micropulsations; Polarization; *TN342*. SP305.
- Propagation; Cyanide groups; Initiation; Isola Naphthylidene ring; Polyacrylonitrile; *9489*. SP305.
- Propagation; Radio; Reflection coefficients; Sky waves; Abortion; Antennas; Broadcasting; Ground waves; Ionospheric medium frequency; Polarization; *9551*. SP305-1.
- Propagation characteristics; Transmission line; Characteristic impedance; Coupler; Current; Impedance; input impedance; Mooring Line Data Line; *NBSIR 73-341*. SP305-6.
- Propagation codes; Self-focusing; Apodization; Beam break instability theory; Nonlinear propagation; *SP414*, pp. 1-10. SP305-6.
- Propagation delay; Satellites; Synchronization; Time dissemination; Tracking; Clocks; *12647*. SP305-4.
- Propagation function; Pulse; Receiving end; Skin effect; response; Time domain; Voltage divider; Asymptotic expansion; Characteristic impedance; Coaxial line; Compromise error function; Conductor; Cylindrical; Dielectric; E Generator; Lossy; Microminiature; Model; *14347*. SP305.
- Propagation of error; Random; Ratio; Systematic; Sum; proximation; Error; Formula; Imprecision; Law of Products; *J70C4-237, 263-273 (1966)*. SP305.
- Propagation of error; Random variables; Statistical distributions; Tables of probability distributions; Transformation of variables in probability distributions; Bayes' theorem; Central limit theorem; Characteristic function of a distribution; *10926*. SP305-2.
- Propagation of error; Stability; Systems of differential equations; Numerical integration; *J71B2&3-204, 91-103 (1971)*. SP305.
- Propagation of error; Standard deviation; Statistical control; Control chart; Data analysis; Measurement process; Measurement; Precision; *11797*. SP305-2.
- Propagation of error; Variance; Coefficients subject to error; Determinant; Error propagation; Implicit functions; Linear equations; Matrix; *14395*. SP305-6.
- Propagation of error computations; Statistical standards; Automatic data processing equipment; Confidentiality audits; aggregation; Disclosure criteria; Federal statistical system; inherent computability; Matching; Probability master samples; *9247*. SP305.
- Propagation of error computations; Statistical standards; Automatic data processing equipment; Disaggregation; Federal statistical system; Inherent computability; Matching; Probability master samples; *9742*. SP305-1.
- Propagation of errors; Uncertainty in chromaticity coordinates; Uncertainty in spectral tristimulus values; Uncertainty in spectrophotometric data; Uncertainty in spectroradiometric

- data; Uniform chromaticity spacing; Variability; Colorimetry; 9965. SP305-1.
- Propagation of ground waves; Electromagnetic ground waves; Ground waves; Nonhomogeneous paths; 11018. SP305-2.
- Propagation studies; Radio waves; Spread F; Frequency measuring technique; High frequency; Ionosonde technique; 0241. SP305-1.
- Propane; Butanes; Clausius-Mossotti function; Density; Dielectric constant; Ethane; Interpolation function; LNG components; Methane; Mixtures; Nitrogen; 14164. SP305-6.
- Propane; 1-butane; Insertion; Ketene; Methane; Methylene; N-butane; Photolysis; 10170. SP305-1.
- Propane; Propane- $d_2$ ; Propane- $d_4$ ; Propane- $d_6$ ; Threshold photoelectron spectroscopy; Coincidence; Mass spectrometry; Photoionization; 16590. SP305-8.
- Propane; Properties data; Calculation methods; Densities; Ethane; Liquefied natural gas mixtures; Methane; Pure components; 13667. SP305-5.
- Propane; Quantum yields; Rare-gas resonance radiation; Unimolecular dissociation; Ion-molecule reaction; Photoionization; *J.75A No. 6*, 607-612 (1971). SP305-3.
- Propane; Radiation chemistry; Ion-molecule reaction; Kinetics; Mass spectrometry; Photoionization; 12175. SP305-3.
- Propane; Radical scavenger; Radiolysis; Free radicals;  $H_2S$ ; Ion-molecule reactions; Photolysis; 9544. SP305-1.
- Propane; Radical scavenging; Vacuum ultraviolet photolysis; Equipartition of energy; Hydrogen iodide; Methylene insertion reaction; 14492. SP305-6.
- Propane; Solid phase; Free radicals; Photolysis; Primary dissociations; 10007. SP305-1.
- Propane; Sulfur dioxide; Air pollution; Carbon monoxide; Gas analysis; Permeation tubes; 15552. SP305-7.
- Propane; Torsional frequencies; Critically evaluated data; Enthalpy; Enthalpy function; Enthalpy of formation; Entropy; Equilibrium constant of formation; Ethane; Gibbs energy function; *J. Phys. Chem. Ref. Data* 2, No. 2, 427-437 (1973). SP305-6.
- Propane chain decomposition; Vacuum ultraviolet; Photolysis; 9878. SP305-1.
- Propane- $d_2$ ; Propane- $d_4$ ; Propane- $d_6$ ; Threshold photoelectron spectroscopy; Coincidence; Mass spectrometry; Photoionization; Propane; 16590. SP305-8.
- Propane- $d_2$ ; Propane- $d_4$ ; Threshold photoelectron spectroscopy; Coincidence; Mass spectrometry; Photoionization; Propane; Propane- $d_4$ ; 16590. SP305-8.
- Propane- $d_4$ ; Threshold photoelectron spectroscopy; Coincidence; Mass spectrometry; Photoionization; Propane; Propane- $d_2$ ; Propane- $d_4$ ; 16590. SP305-8.
- Propanone (acetone); Torsional frequencies; 2-butanone methyl ethyl ketone); Enthalpy; Entropy; Equilibrium constant of formation; Gibbs energy of formation; Heat capacity; Ideal gas thermodynamic properties; *JPCRD* 5, No. 2, 319-328 (1976). SP305-8.
- Pellant management; Substitute fluid; Volume flow; Accuracy; Calibration; Commodity transfer; Cryogenic; Cryogenic processes; Density; Flowmeters; Mass flow; Mass flowmeters; Performance results; 9428. SP305.
- Pellants; Safety information; Thermodynamic properties; Chemical reactions; Combustion; Cryogenic fluid safety; Explosions; Fires; Fuels; Handling; Hydrogen; Oxidizers; Oxygen; 15154. SP305-7.
- Pene; Radiation-induced polymerization; Tetrafluoroethylene; Tetrafluoropropene; Polymerizing material; 14225. SP305-6.
- Pene; Rate constant; Air pollution; Ethene; Kinetics; Mass spectrometry; Ozon; 15234. SP305-7.
- Pene; 1-butene; Field low mass spectrometry; Hydrazine; Photodissociation; 9971. SP305-1.
- Proper rotations; Rigid rotations; Rotation; Axis and angle of rotation; Coordinate inversion; Coordinate reflection; Improper rotations; Matrices; Orthogonal transformations; *J.73B No. 2*, 125-138 (1969). SP305-1.
- Proper time; Universal coordinated time; Coordinate time; Local atomic standards; Metric time; National unified atomic standards; 13331. SP305-2.
- Proper time; UTC; Atomic clocks; Clock acceleration effect; Definition of the second; Frequency accuracy; Frequency standards; General relativity; Gravitational redshift; Primary frequency standards; 16236. SP305-8.
- Properties; Additive; Deformation; Dental; Porcelain; 14977. SP305-7.
- Properties; Atom; Energy generation; Industrial technology; Molecule; Primary standards; *NSIR* 75-944. SP305-8.
- Properties; Atomic; Compilation; Data; Data center; Molecular; 10028. SP305-1.
- Properties; Carbon (graphite); Ceramics; Composites; Data sources; Glasses; *SP396-2*. SP305-7.
- Properties; Cryogenic; Hydrogen; Liquid; Low-temperature; 9645. SP305-1.
- Properties; Deleading methods; Lead paint poisoning; Performance; 13391. SP305-5.
- Properties; Quality classes; Rolling load; Surface evenness; Test methods; Warmth to touch; Colour fastness; Flatness; Flooring; Indentation; Performance requirements; *SP361, Vol. 1*, pp. 601-612. SP305-4.
- Properties; Reaction; Scattering; Structure; Transport; Diffraction; Inelastic; Interaction; Materials; Neutron; 10553. SP305-1.
- Properties; Research Materials; Standard Reference Materials; Analysis; Characterization, composition; General Materials; *SP260, 1973 Edition*. SP305-5.
- Properties; Research Materials; Standard Reference Materials; Analysis; Characterization; Composition; General Materials; *SP260, 1975-76 Edition*. SP305-7.
- Properties; Resins; Selection; Substrates; Surface preparation; Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant; Lacquer; Latex; Multicolor; Organic coatings; Paint; *B557*. SP305-1.
- Properties; Rubbers; Styrene-butadiene rubber; Butyl rubber; Constants; Natural rubber; Neoprene; Physical constants; Polymers; 10136. SP305-1.
- Properties; Rubbers; Styrene-butadiene rubbers; Butyl rubber; Constants; Natural rubber; Neoprene; Physical constants; Polymers; 14858. SP305-7.
- Properties; Scratch resistance; Smoke generation; Toxic combustion products; Toxicity; Washability; Water vapor permeance; Abrasion; Adhesion; Colorfastness; Covering; Materials; Flash point; Flame spread; Impact resistance; Lead paint poisoning; *TN808*. SP305-5.
- Properties; Sheet; Agricultural; Composition; Construction; Industrial; Polyethylene; *PS17-69*. SP305-2.
- Properties; Standards; Standard Reference Materials; Temperature; Thermal; Ceramics; Chemical composition; Mechanical properties; Pressure; 12181. SP305-3.
- Properties; Temperatures; Triple-point region; T-S diagram; Enthalpy; Entropy; Parahydrogen; Pressure-volume; *TN343*. SP305.
- Properties; Test methods; Nonpolymeric constituents in plastics; Plastics testing; Polymer analysis; 16225. SP305-8.
- Properties; apparel; Quality control, apparel industry; Test methods, textile; Testing programs, apparel industry; Textile testing, apparel materials; Apparel industry; Equipment, textile testing; Industry, apparel; Performance, apparel materials; 12435. SP305-4.
- Properties; apparel; Testing textiles; Wash-and-wear; Apparel; Care instructions; Labeling, apparel; Performance, apparel; 11492. SP305-2.

- Properties data; Calculation methods; Densities; Ethane; Liquefied natural gas mixtures; Methane; Pure components; Propane; 13667. SP305-5.
- Properties data; Flowmeters; Instrumentation; Liquefied natural gas (LNG); Methane; 11821. SP305-3.
- Properties data; National Standard Reference Data System; Scientific and technical librarians; Special Libraries Association; Survey; Users; 12626. SP305-4.
- Properties data; Survey; Users; National Standard Reference Data System; 14498. SP305-6.
- Properties, electrodeposited brass; Tensile strength, brass; Wear rate, brass; Density, brass; Ductility, brass; Electrical resistivity, brass; Electrodeposited brass; Electroplated brass; Internal stress, brass; Mechanical properties, electrodeposited brass; 15559. SP305-7.
- Properties of building materials; Standardization; Building components design; Building procedures; Contracting procedures; Performance specifications; SP361, Vol. 1, pp. 289-296. SP305-4.
- Properties of certain polymers; Polymers; Dielectric properties of certain polymers; Humidity change; Polycarbonate; Polyethylene; Polystyrene; 10057. SP305-1.
- Properties of electrodeposits; Thickness gages; Thickness measurement; Coating thickness; Coating thickness gages; Coatings; Electrodeposited coatings; Electroplated coatings; Metal coatings; 15560. SP305-7.
- Properties of floors; Classification of floors; Evaluation of floors; External factors; Floorings; Floors; Performance analysis; SP361, Vol. 1, pp. 613-623. SP305-4.
- Properties of fluids; Properties of solids; Subject indexes; Superconductivity; Transport processes; Author indexes; Bibliography; Cryogenics; Liquefaction; Metrology; TN639. SP305-5.
- Properties of fluids; P-V-T; Saturation densities; Critical density; Critical point; Critical temperature; Oxygen; 11787. SP305-2.
- Properties of fluids; P-V-T, saturation densities; Critical density; Critical point; Critical temperature; Oxygen; 11523. SP305-2.
- Properties of fluids; Review; Thermodynamic; Argon; Bibliography; Compilations; Critical evaluation; Cryogenics; Experimental measurement; Fluorine; Helium; Hydrogen; Methane; Nitrogen; Oxygen; 13848. SP305-6.
- Properties of fluids; Saturated liquid and vapor; Specific heat; Vapor pressure; Velocity of sound; Density; Enthalpy; Entropy; Equation of state; Fixed points (PVT); Joule-Thomson; Latent heat; Melting curve; J.74A No. 1, 93-129 (1970). SP305-2.
- Properties of fluids; Specific heat; Velocity of sound; Density; Enthalpy; Entropy; Hydrogen; 15022. SP305-7.
- Properties of glass; Glass research; Glass technology; 9437. SP305.
- Properties of ionic crystals; Crystals; Ionic conductivity; Ionic crystals; 16160. SP305-8.
- Properties of matter and materials; Engineering measurements and standards; Measurement standards; M282. SP305.
- Properties of mechanical structure; Annealing-electrolytic copper; Electrodeposited copper; Impurity content; 12041. SP305-3.
- Properties of semiconductors; Semiconductors; Thermoelectric power; Band structure; 16161. SP305-8.
- Properties of solids; Subject indexes; Superconductivity; Transport processes; Author indexes; Bibliography; Cryogenics; Liquefaction; Metrology; Properties of fluids; TN639. SP305-5.
- Properties, sewing thread; Quality control, sewing threads; Sewing threads; Testing programs, sewing thread tests, sewing thread; Thread properties; Threads, sewing; Apparel industry; Industry, apparel; Performance, sewing thread; 12382. SP305-4.
- Properties, textile fiber; Textiles; Wash-and-wear textiles; Apparel, textile; Blends, fabric; Care instructions, textiles; Consumer goods, textile; Fabrics, textile; Fibers, textile; Flammability, textile; Glossary, textile; C151. SP305-2.
- Property; System; Test method; ASTM; Classification; Hazard; Participation; 16124. SP305-8.
- Property measurement test; Standard test methods; Aging test; Building elements and materials; Degradation factors; Durability; NBSIR 75-955. SP305-8.
- Property of material; Purity of material; Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; Price list; M260, 1967 Edition. SP305.
- Property of material; Purity of material; Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; Price list; M260, 1968 Edition. SP305-1.
- Property of material; Purity of material; Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; Price list; SP260, July 1969 Edition. SP305-1.
- Property of material; Standard reference material; Standard Analysis; Characterization; Composition; SP260, 1970 Edition. SP305-2.
- Property rights; Validity of patents; Inventor; Monopoly; Patent system; SP388, pp. 119-126. SP305-6.
- Property tests; Building materials; Concrete; Functions in building; Material prescriptions; Performance concept; Plastic; SP361, Vol. 1, pp. 733-740. SP305-4.
- Property value uncertainties; Solid oxygen; Tables; Computer programs; Gaseous oxygen; Graphs; Handbook thermophysical properties; Liquid oxygen; Oxygen; 13112. SP305-5.
- Property value uncertainties; Solid; Solid hydrogen; Tables; Computer programs; Gaseous hydrogen; Graphs; Handbook thermophysical properties; Hydrogen; Liquid hydrogen; Ortho-para modifications; 15382. SP305-7.
- Proprionaldehyde; Rotational; Structure; Butadiene; Isomers; Microwave spectroscopy; 9894. SP305-1.
- Proportional; Counter; Flux; Hydrogen; Monitor; Neutron; SP425, pp. 78-80. SP305-7.
- Proportional counter; Cavity chamber; Energy deposited; Linear energy transfer; Neutrons; 9625. SP305-1.
- Proportional counter; Quantitative Mössbauer spectrometry; Standard reference materials; Backscatter geometry; Computer programs for Mössbauer spectrometry; Computer; Corrosion products; Counting statistics; Cross section; TN451. SP305-1.
- Proportional counters; Quantitative analysis; Solid state counters; Tests; X-ray spectra; X-ray spectrometers; Electron diffraction; Electron probes; Evaluation; Gas flow; Lithium Microanalysis; Multichannel analyzer; 12251. SP305-3.
- Proportional counters; Radioactivity standardization; Xenon-133, 131m; Argon-37; Direct standardization; Environmental radioactivity; Internal gas counters; Isotope separator; Krypton-85; 15948. SP305-8.
- Proportional detector; Radiochemistry; Radioisotope dilution; Rutile; Self-consistent crystal field; Standard reference materials; Structure analysis; Calculations; Conversion electrons; Counting statistics; Cross sections; Cryostats; TN50. SP305-2.
- Proportional limit; Crack propagation; Determination of stress; Measurement; Mechanical tests; Plastic deformation; 1646. SP305-8.
- Proportional limit; Flow surface; Multiaxial stresses; Plasticity; 15802. SP305-8.
- Proportional limit; Stiffness of testing machines; 14949. SP305-7.
- Proposal evaluation procedures; Proposal preparation procedures; Evaluation systems; Experimental Technology



- centives Program; Procurement experiments; Procurement procedures; *NBSIR 76-1124. SP305-8.*
- Proposal preparation procedures; Evaluation systems; Experimental Technology Incentives Program; Procurement experiments; Procurement procedures; Proposal evaluation procedures; *NBSIR 76-1124. SP305-8.*
- Proposal writing; R&D; Small business; Consulting services; Contract R&D; Government contracts; Innovation; Invention; *14700. SP305-6.*
- Proposal/award software; Research administration; Software exchange; Software summary; Software survey; Space management software; University systems; Directory; Equipment management software; Fiscal administration software; Grant/contract software; *TN916. SP305-8.*
- Proposed international generic building classifications; Proposed international subsystem classification models; Systems approach; User needs; Buildings; Design process; Performance; Performance concept; Performance-judgement approach; *SP361, Vol. 1, pp. 201-206. SP305-4.*
- Proposed international subsystem classification models; Systems approach; User needs; Buildings; Design process; Performance; Performance concept; Performance-judgement approach; Proposed international generic building classifications; *SP361, Vol. 1, pp. 201-206. SP305-4.*
- Propositional calculus; Recursion theory; Undecidability; Degrees of unsolvability; *15616. SP305-7.*
- Proprietary rights; Computers; Copyright; Information storage and retrieval; Infringement; Input; Intellectual property; *13506. SP305-5.*
- Population applications; Thermodynamic measurements; Transpiration equilibria; Absorption spectrometry; Calorimetry; Mass spectrometry; *12395. SP305-4.*
- Population systems; Superconducting devices; Superconducting magnets; Superconductivity; Electrical machinery; Land transportation; Power transmission; *14175. SP305-6.*
- Propyl ion; Butyl ion; Carbonium ion; Ion fragmentation; Isomerization; *14908. SP305-7.*
- Propylene;  $H_2$ -transfer reactions; Hydrocarbons; Ion-molecule reaction; Photoionization; Photolysis; *9749. SP305-1.*
- Propylene; Pyrolysis; Rate constants; Unimolecular theory; Acetylene; Dissociation; Elementary reactions; Ethane; Ethylene; Hydrocarbons; Kinetics; Mechanism; Methane; Olefins; Paraffins; *SP357, pp. 17-25. SP305-4.*
- Propylene; Reaction kinetics; Absolute rate constant; Activation energy; Fluorescence; H atom; *12212. SP305-3.*
- Propylene; Reaction rate; Resonance fluorescence; Hydrogen atoms; *12820. SP305-4.*
- Propylene; Tetrafluoroethylene; Copolymer; Fluoropolymer; Glass temperature; Isobutylene; Melting temperature; Polymer; *14570. SP305-6.*
- Propylene; Thermodynamic properties data; Transport properties data; Critically evaluated data; Ethylene; *NBSIR 75-763. SP305-7.*
- Propylene; Torsional frequency; Critically evaluated data; Enthalpy; Enthalpy function; Enthalpy of formation; Entropy; Equilibrium constant of formation; Ethylene; Gibbs energy function; *J. Phys. Chem. Ref. Data 4, No. 1, 251-261 (1975). SP305-7.*
- Propylene; Vacuum ultraviolet; Photolysis; *10795. SP305-1.*
- Propylene; 1-butene; Low temperature chemistry; Olefins; Oxidation; Oxygen atom; *10377. SP305-1.*
- Propynyl; Pyrolysis; Single pulse shock tube; 4-methylpentyn-1; Allene; Bond energy; Comparative rate; Gas phase; Heats of formation; Kinetics; Molecular reaction; *12832. SP305-4.*
- Prostheses; Resins; Restorative material; Biomaterials; Composites; Dentistry; Fillers; Glass; Methacrylates; Monomers; *SP354, pp. 93-100. SP305-4.*
- Prosthetic materials; Radiopacity-radiopaque; Composite materials; Denture base materials; Physical properties; *12309. SP305-3.*
- Prosthetic materials; Radiopaque agents; Radiopaque denture base materials; Denture foreign bodies; Type, cause, prevention; *12233. SP305-3.*
- Prosthetics; Radiopacity; Silane bonding; Composites; Denture base materials; Dentures; Dimensional stability; Foreign bodies; *12310. SP305-3.*
- Protactinium; Rare earth; Sliding spark discharge lamp; Spectrum; Uranium; Actinide; Atomic energy levels; Isoelectronic sequence; *15990. SP305-8.*
- Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; Neptunium; Nobelium; Plutonium; *13594. SP305-5.*
- Protactinium; Thorium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; Neptunium; Nobelium; Plutonium; *14257. SP305-6.*
- Protactinium dioxide; Thorium dioxide; Uranium dioxide; Activity coefficients in solid solutions; Equilibria with molten fluorides; Equilibrium of actinide oxides and molten fluorides; Heat of mixing in solid solutions; *SP364, pp. 331-341. SP305-4.*
- Protopia; Three-components theory of color vision; Tritanopia; Chromatic adaptation; Color blindness; Color-matching functions; Color vision; Deuteranopia; Opponent-colors theory; *9819. SP305-1.*
- Protopia; Tritanopia; Vision; Chromaticity; Color; Perception; *J.74A, No. 1, 23-30 (1970). SP305-2.*
- Protecting nuclear fuels; Computers; Energy research; Ethylene; Fabric flammability; Glass standards; Household fires; Jet engines; Measurement seminars; Metric; *DIM/NBS 59, No. 1, 1-24 (1975). SP305-7.*
- Protection; Protective equipment; Energy absorption; Impact test; *NBS-GCR-74-24. SP305-8.*
- Protection; Reliable software; Reliability; Security; Small protection domains; Types; Capability; Capability-based addressing; Computer security; Extended-type objects; Operating system structures; *TN919. SP305-8.*
- Protective; Resilient liners; Temporary expedients; Tissue bearing; Denture base; *12250. SP305-3.*
- Protective chelation; Releasing agent; Atomic absorption; Atomic fluorescence; Flame emission; Flame temperature; Interference; Oxidant-fuel; *11428. SP305-2.*
- Protective clothing; Bibliographies; Construction materials; Fire departments; Fire Research and Safety Act; Fire tests; Flammability tests; Flammable fabrics; Flammable Fabrics Act; *NBSIR 73-246. SP305-6.*
- Protective clothing; Bibliographies; Building fires; Construction materials; Fire departments; Fire tests; Flame spread test; Flammability tests; Flammable fabrics; Operation BREAKTHROUGH; *NBSIR 74-511. SP305-6.*
- Protective clothing; Bibliographies; Building fires; Construction materials; Fire departments; Fire tests; Flame spread test; Flammability tests; Flammable fabrics; Operation BREAKTHROUGH; *NBSIR 75-736. SP305-7.*
- Protective clothing; Firefighters; Firefighter's turnout coats; *NBSIR 75-702. SP305-7.*
- Protective clothing; Protective equipment; Firefighter injuries; Injury statistics; Occupational injuries; *13347. SP305-5.*
- Protective clothing; Reflectance; Spectral radiation; Transmittance; Firefighters; *14346. SP305-6.*
- Protective clothing; Smoke inhalation; Standards; Breathing apparatus; Closed loop breathing apparatus; Equipment design; Fire fighters; Fire fighting; Fire fighting equipment; Fire gases; Open loop breathing apparatus; *NBS-GCR-73-10. SP305-8.*
- Protective clothing; Thermal conditions; Turnout coat; Comfort; Fire coat; Firefighting; Impact protection; Injury statistics; *14621. SP305-6.*

- Protective coatings; Rigid polyurethane; Roofing; Durability; Fire safety; Performance guidelines; *TN778. SP305-5.*
- Protective coatings; Shock tube; Tape; Thermal radiant-energy response; Thermal transient response; Transducers; Zero shift; Coatings; Dynamic; Dynamic response; Pressure transducer; *NBSIR 76-1144. SP305-8.*
- Protective coatings; Steel piling; Cathodic protection; Coating index; Corrosion rates; Marine environment; Polarization techniques; *13804. SP305-6.*
- Protective coatings; Thermal radiant-energy response; Thermal transient response; Transducer; Coatings; Photoflash bulb; Pressure transducer; *NBSIR 76-1060. SP305-8.*
- Protective equipment; Energy absorption; Impact test; Protection; *NBS-GCR-74-24. SP305-8.*
- Protective equipment; Firefighter injuries; Injury statistics; Occupational injuries; Protective clothing; *13347. SP305-5.*
- Protective equipment; Security equipment; Standards; Warning lights and sirens; Anthropometry; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; Performance standards; Project plans; *NBSIR 74-529. SP305-6.*
- Protective equipment; Security equipment; Standards; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; Performance standards; Project plans; *NBSIR 74-568. SP305-6.*
- Protective equipment; Security systems vehicles; Voluntary standards; Weapons; Building systems; Communications equipment; Concealed objects detectors; Emergency equipment; Law Enforcement Standards Laboratory; Procurement guidelines; *15325. SP305-7.*
- Protective films; Moisture resistance; Sodium chloride; Arsenic trisulphide; Ion planing; *SP435, pp. 14-19 (Apr. 1976). SP305-8.*
- Protective headgear; Safety; Test methods; Head injury; Helmets; Math model; *NBSIR 76-1107. SP305-8.*
- Protective overcoatings; CaF<sub>2</sub> windows; CO laser damage; Damage threshold; Dielectric antireflection coatings; Metal coatings; Metal mirrors; *SP387, pp. 138-150. SP305-5.*
- Protein; Protein-sodium dodecyl sulfate complexes; Sodium dodecyl sulfate-complexes; Chromatography; Controlled pore glass; Molecular size; Porous glass chromatography; *13721. SP305-5.*
- Protein; Protein-sodiumdodecylsulfate complexes; Sodiumdodecylsulfate-complexes; Chromatography; Controlled pore glass chromatography; Molecular size; Porous glass chromatography; *14307. SP305-6.*
- Protein adsorption; Adsorption; Blood protein; Bound fraction; Ellipsometry; Polymer adsorption; *NBSIR 74-470. SP305-6.*
- Protein adsorption; Conformation adsorbed proteins; Ellipsometry; Infrared bound fraction; *16427. SP305-8.*
- Protein adsorption; Protein conformation; Blood proteins; Infrared bound fraction; *14447. SP305-6.*
- Protein adsorption; Protein conformation; Blood proteins; Infrared bound fraction; *15707. SP305-8.*
- Protein adsorption; Synthetic implants; Adsorption; Blood protein; Bound fraction; Ellipsometry; Implants; Polymer adsorption; *NBSIR 75-667. SP305-8.*
- Protein adsorption; Synthetic implants; Adsorption; Blood protein; Bound fraction; Ellipsometry; Implants; Polymer adsorption; *NBSIR 76-1017. SP305-8.*
- Protein adsorption; Thermometry; Blood banking; Bone cement; Clinical lab; Clinical SRM's; Dental research; Health research; Implant materials; Lead paint poisoning; MUMPS; *DIM/NBS 58, No. 5, 97-120 (1974). SP305-6.*
- Protein calorimetry; Polynucleotide calorimetry; Purity assay; Reaction coupling; Thermodynamics; Warfarin; Adenosinetriphosphate-thermodynamics; Chemical bond energy; Coiled helix thermopiles; Drug receptor complexing; Entropy; Enzyme detection and analysis; *13730. SP305-5.*
- Protein concentration effects; Albumin; Binding; Detergent; lysis; Kinetic anomalies in dialysis; Long-chain ligand; *10868. SP305-2.*
- Protein conformation; Adsorbed protein conformation; Blood protein; *SP415, pp. 83-90. SP305-7.*
- Protein conformation; Blood proteins; Infrared bound fraction; Protein adsorption; *14447. SP305-6.*
- Protein conformation; Blood proteins; Infrared bound fraction; Protein adsorption; *15707. SP305-8.*
- Protein structure; Relaxation times; C-13 magnetic resonance; Collagen; Polymers; Polypeptides; *15330. SP305-7.*
- Protein structure; Surface crystals; Surface dislocations; Dislocations in biophysics; *SP317, pp. 579-592. SP305-3.*
- Proteins; Sodium dodecyl sulfate; Chromatography; Controlled pore glass; Denaturing solvents; Glass; Molecular weight; Pore size; Porous glass; *14068. SP305-6.*
- Proteins; Solid standards; Antibodies; Antigens; Biological polymers; Immunochemical analysis; Light scattering; Polymers; *J. Res. 80A No. 4, 605-608 (1976). SP305-8.*
- Protein-sodium dodecyl sulfate complexes; Sodium dodecyl sulfate-complexes; Chromatography; Controlled pore glass; Molecular size; Porous glass chromatography; *Protein 13721. SP305-5.*
- Protein-sodiumdodecylsulfate complexes; Sodiumdodecylsulfate-complexes; Chromatography; Controlled pore glass chromatography; Molecular size; Porous glass chromatography; *Protein; 14307. SP305-6.*
- Protocol; Standards; Computer graphics; Computer network; Graphics; Networks; *15071. SP305-7.*
- Protocol; Standards; Computer networks; Data communications; Data networks; Networks; Packet switching; *1651. SP305-8.*
- Protocols; Access procedures; Command language; Computer networks; Macros; Minicomputers; *15541. SP305-7.*
- Protocols; Automated reading technology; Circuitry; Computer applications; Computer engineering; Distributed systems; Interface standards; Memory technology; *16553. SP305-8.*
- Protocols; Teleprocessing; Access procedures; Command language; Computer networks; Job control language; Macrominicomputers; *TN917. SP305-8.*
- Proton; Bond distance; Broad-line second moment; Carbon hydride; Hydrogen; Manganese; Nuclear magnetic resonance; *9702. SP305-1.*
- Proton; Bond length; Broad-line; Carbonyl; Cobalt; Cobalt tetracarboxyl hydride; Hydride; Nuclear magnetic resonance; *9449. SP305.*
- Proton; Bond lengths; Boron; Broad-line; Dimethoxyborane; Hydride; Nuclear magnetic resonance; *9450. SP305.*
- Proton; Double ionization; Experimental; Franck-Condon principle; H<sub>2</sub>; Kinetic energy; *10677. SP305-1.*
- Proton; Proton second moment; Spin-lattice relaxation; Activation energy; Ammonium iodide; Hindered rotation; Nuclear magnetic relaxation; Phosphonium halides; *11168. SP305-7.*
- Proton; Pulsed nuclear magnetic resonance; Scalar and quadrupole coupling constants and relaxation effects; Boron-Boron-11; Dimethoxyborane; *J73A No. 2, 195-199 (196). SP305-1.*
- Proton; Quadrupole coupling constant; Spin-spin coupling constant; Boron-11; <sup>11</sup>B(ODC<sub>2</sub>)<sub>3</sub>; Hydride; Hydrogen; Liquid; *9588. SP305-1.*
- Proton; Radiation effect; Semiconductor; Silicon; Detection; *10474. SP305-1.*
- Proton; Radiation effect; Semiconductor; Silicon; Detection; *10881. SP305-2.*
- Proton; Range; Scattering; Depth; Deuterium; Diffusion; Elastic; Helium; Migration; Oxide; *SP425, pp. 488-4. SP305-7.*
- Proton; Reflection approximation; Theoretical; Double ionization; Franck-Condon principle; H<sub>2</sub>; Kinetic energy; *106. SP305-1.*

- Proton; Relaxation; Spin; 65-335 K; Cerous magnesium nitrate hydrate; Lattice; 14860. **SP305-7.**
- Proton; Rhenium; Cross sections; Excitation function; *SP425*, pp. 509-511. **SP305-7.**
- Proton; Scattering; Sum rules; Compton scattering; Dispersion relations; Photon; 14114. **SP305-6.**
- Proton; Second moment; Internal reorientation; Nuclear magnetic relaxation; Potassium rhenium hydride; Potential barrier; 11500. **SP305-2.**
- Proton affinity; Proton transfer; Basicity; Bibliography, appearance potential; Heat of formation; Ion-molecule equilibrium; *NBSIR 76-1061*. **SP305-8.**
- Proton affinity; Proton transfer; Rate coefficients;  $\text{CCl}_2$ ,  $\text{CF}_2$ ;  $\text{CCl}_2\text{H}^+$ ,  $\text{CF}_2\text{H}^+$ ; Displacement reactions; Four-center reactions; Ion molecule reactions; 16598. **SP305-8.**
- Proton affinity; Radiolysis; Gas-phase kinetics; Ion-molecule reactions; Mass spectrometry; Photoionization; *J.76A No. 6*, 655-659 (1972). **SP305-4.**
- Proton affinity; Rate constants; Ion molecule reactions; Mass spectrometry; Neopentane; Photoionization; *J.75A No. 5*, 487-493 (1971). **SP305-3.**
- Proton affinity; Vacuum ultraviolet photolysis; Argon reactions;  $\text{H}(2^2\text{S})$  reaction with  $\text{Ar: HAr}^+$ ; Infrared spectrum; Interstitial H atom spectrum; Matrix isolation; 13545. **SP305-5.**
- Proton assisted reactions; X-F bonds; Fluorine; Polarization of bonds; 13368. **SP305-5.**
- Proton bombardment; Thermal control coatings; Degradation mechanising; Electron bombardment; Electron degradation; Polymeric perfluorinated ethylenepropylene; *SP336*, pp. 359-382. **SP305-3.**
- Proton coupling constants; Benzylidene acetals; Chemical shifts; Conformations; D-glucosyluronic derivatives; P.m.r. spectroscopy; 10886. **SP305-2.**
- Proton damage; Proton energy; Radiation effect; Radiation intensity; Recovery; Solubility; Space simulation; Temperature effect; Tests; Viscosity; Electron damage; Electron energy; Electron spin resonance; Evaluation; Gel; *SP336*, pp. 323-344. **SP305-3.**
- Proton degradation; Silver coated teflon; Teflon film; Ultraviolet degradation; Aluminum coated teflon; Electron degradation; *SP336*, pp. 345-358. **SP305-3.**
- Proton emission; Scattered neutron; Angular distribution; Inelastic scattering; *SP425*, pp. 350-353. **SP305-7.**
- Proton energy; Radiation effect; Radiation intensity; Recovery; Solubility; Space simulation; Temperature effect; Tests; Viscosity; Electron damage; Electron energy; Electron spin resonance; Evaluation; Gel; Mechanical properties; *SP336*, pp. 323-344. **SP305-3.**
- Proton exchange; Quadrupole splitting; Anisotropic molecular motion; Broadline NMR;  $\text{D}_2\text{O}$  in collagen;  $\text{H}_2\text{O}$  in collagen; 11283. **SP305-2.**
- Proton magnetic resonance; Protonolysis; Stereochemistry; Tetrachlorodiborane(4); 1,2-bis(dichloroboryl)ethylene; Acetylene; Organoboron compounds; 10293. **SP305-1.**
- Proton magnetic resonance; Pyranoid ring; Spectroscopy; 1,2,4,6-di-O-benzylidene- $\alpha$ -D-glucopyranoses; Conformations; Coupling constants; Iterative analysis; *m*-dioxane ring; 11874. **SP305-3.**
- Proton magnetic resonance; Spectroscopy; Aromatic amine; Multiple regression analysis; Nuclear magnetic resonance; Polymer; 12431. **SP305-4.**
- Proton magnetic resonance; Spin coupling; Boron; Computer-calculated spectra; Diborane; Magnetic non-equivalence; 10935. **SP305-2.**
- Proton magnetic resonance; Skew conformations; Standard reference materials; Uric acid; VMA; 'Azobilirubin'; Bilirubin;  $\beta$ -NAD;  $\beta$ -NADH; Cholesterol; Cortisol; D-mannitol; Electron spin resonance; *TN547*. **SP305-2.**
- Proton magnetic resonance spectroscopy; Superconducting solenoids; Carbohydrates; Fourier transforms; Instrumentation; Iterative analysis of spectra; Non-equivalence; 13183. **SP305-5.**
- Proton magnetic resonance spectroscopy;  $\alpha$ -D-glucose; Anomerization;  $\beta$ -D-glucose; Calorimetry; Clinical analysis; Differential scanning calorimetry; Equilibration; Gas chromatography; Polarimetry; 12387. **SP305-4.**
- Proton precession frequency; Absolute ampere determination; Calculable inductor; Current balance; National electrical units; Nonmagnetic facility; Pellat dynamometer; 9325. **SP305.**
- Proton radiography; Real-time techniques; Three-dimensional radiography; X-radiography; Dimensional measurement; Gamma radiography, image enhancement; Neutron radiography; Nondestructive testing; 15214. **SP305-7.**
- Proton resonance; Ribopyranose; Skew; Carbohydrates; Conformations; Coupling constants; 11732. **SP305-2.**
- Proton scattering; Quantitative analysis; Air particulate matter; *SP425*, pp. 484-487. **SP305-7.**
- Proton second moment; Spin-lattice relaxation; Activation energy; Ammonium iodide; Hindered rotation; Nuclear magnetic relaxation; Phosphonium halides; Proton; 11168. **SP305-2.**
- Proton source; Solar wind simulator; Ion beam deflection; Ion optics; Mass separator; *SP336*, pp. 279-296. **SP305-3.**
- Proton sources; Solar wind; Sputtering; Ultrahigh vacuum systems; Charge exchange; Charge neutralization; Ion optics; Mass separators; *SP336*, pp. 261-277. **SP305-3.**
- Proton tracks; Activation analysis; Cellulose nitrate detectors; Nitrogen; Nuclear track technique; 12689. **SP305-4.**
- Proton tracks; Standard reference materials; Bovine liver, cellulose nitrate; Image analyzing system; Microscope; Neutron activation analysis; Nitrogen; Orchard leaves; 14705. **SP305-6.**
- Proton transfer; Activation energy; Configuration interaction; Correlation energy surface; Hartree-Fock;  $\text{H}_3^+$ ;  $\text{H}_2$ ;  $\text{H}_3^-$ ;  $\text{H}_4$ ;  $\text{LiH}_2$ ;  $\text{LiH}^+$ ;  $\text{HNO}$ ;  $\text{HeH}_2^+$ ; 11969. **SP305-3.**
- Proton transfer; Basicity; Bibliography, appearance potential; Heat of formation; Ion-molecule equilibrium; Proton affinity; *NBSIR 76-1061*. **SP305-8.**
- Proton transfer; Radiation chemistry; Hydride transfer; Ion clustering; Ion-molecule reactions; 15816. **SP305-8.**
- Proton transfer; Radiolysis; Free radical reactions; G-values; Ion-molecule reactions; Neopentane; 14890. **SP305-7.**
- Proton transfer; Rate coefficients;  $\text{CCl}_2$ ,  $\text{CF}_2$ ;  $\text{CCl}_2\text{H}^+$ ,  $\text{CF}_2\text{H}^+$ ; Displacement reactions; Four-center reactions; Ion molecule reactions; Proton affinity; 16598. **SP305-8.**
- Proton transfer; Water; Hydrocarbons; Ion-molecule reactions; Mass spectrometry; Photoionization; 11927. **SP305-3.**
- Proton transfer reactions; Cycloalkanes; Ion-molecule reactions; Isomerization; Mass spectrometry; Photoionization; 13176. **SP305-5.**
- Protonated dimer ions; Alkane dimer ions; Ethane; Ion-molecule reactions; Mass spectrometry; Photoionization; 11830. **SP305-3.**
- Protonation; Structure; 1,3-bis(phenylhydrazono); Cation; Charge-resonance; Diphenylformazan; Heteropolar; 11337. **SP305-2.**
- Proton-nucleus scattering; Strongly interacting particles; Deuteron-deuteron scattering; Elastic scattering; Hadrons; High energy scattering; 10893. **SP305-2.**
- Protonolysis; Stereochemistry; Tetrachlorodiborane(4); 1,2-bis(dichloroboryl)ethylene; Acetylene; Organoboron compounds; Proton magnetic resonance; 10293. **SP305-1.**
- Proton-proton bremsstrahlung; Angular distributions; Low energy approximation; Non-coplanarity; Off-the-energy-shell matrix elements; Photon; Potential model calculations; 10911. **SP305-2.**

- Proton-proton bremsstrahlung; Differential cross section; Non-coplanar proton bremsstrahlung; Off-the-energy-shell behavior; Potential model calculation; *11295*. **SP305-2**.
- Proton-proton bremsstrahlung; Scattering amplitude; Coplanar and non-coplanar events; Differential cross section; Double scattering term; Off-the-energy-shell behaviour; Potential model calculation; *10633*. **SP305-1**.
- Proton-recoil spectrometry; Pu-Be and  $^{252}\text{Cf}$  neutron spectra; Spectra unfolding; *SP425*, pp. 62-65. **SP305-7**.
- Protons; Radiation damage; Radiation effects; Silicon; Electrons; Lithium-drifted silicon detector; Neutrons; *12782*. **SP305-4**.
- Protons; Radiation dosimetry; Radiation quality; Radiation transport theory; Absorbed dose distribution; Electrons; Heavy ions; Interpretation of measurements; Neutrons; Pions; *13331*. **SP305-5**.
- Protons; Range; Stopping power; Bremsstrahlung efficiency; Electrons; Mesons; *9580*. **SP305-1**.
- Protons; Reactions; Theory; Experiment; Neutrons; Nuclear; Photons; Photonuclear; *13187*. **SP305-5**.
- Protons; Solar flares; Acceleration mechanisms; Neutrons; Nuclear reactions; *SP425*, pp. 512-515. **SP305-7**.
- Protons; Solenoid; Automated measurement systems; Gyromagnetic ratio; Magnetic field; *14929*. **SP305-7**.
- Protons; Stopping power; Channeling; Diffraction; Energy loss; *9721*. **SP305-1**.
- Protons, time delay; Time smearing; Deuterium; Moderator; Monte Carlo; Neutrons; Oxygen; *13345*. **SP305-5**.
- Prototype noise power comparator; Radiometers; Spectral densities; Noise power comparator; Power comparator; *10153*. **SP305-1**.
- Prototypes; S.C.S.D., R.A.S.; Strategy; Systems approach; Technology and feasibility; User needs; Bid evaluation; Building systems; Criteria and tests; Educational facilities; Life cost; Performance specifications; *SP361*, Vol. 1 pp. 317-330. **SP305-4**.
- Prouhet-Tarry-Escott problem; Symmetric functions; Diophantine equations; *J74B No. 1, 31-36 (1970)*. **SP305-2**.
- Prouhet-Tarry-Escott problem; Symmetric functions; Diophantine equations; *J71B4-241, 181-182 (1967)*. **SP305**.
- Prostitute; Pulse duration dependence; Repetition rate dependence; Surface damage;  $1.06\ \mu\text{m}$ ;  $0.694\ \mu\text{m}$ ;  $\text{Ag}_3\text{AsS}_3$ ; *SP387*, pp. 239-249. **SP305-5**.
- Prover design; Bell prover; Dynamics of provers; Flow measurement; Gas flow measurement; *14655*. **SP305-6**.
- Provers; Specifications; Test measures; Tolerances; Weights and measures inspection; Accurate measurements of volumes; Field standard; Metal volumetric field standards; *H105-3*. **SP305-3**.
- Proving ring; Structural design; Theory; Curved bar analysis; Elasticity; Force transducer;  $n$ -degree elliptical ring; Non-linear programming; Optimization; *J72C No. 2, 139-160 (1968)*. **SP305-1**.
- Proving rings; Transducers; Uncertainty; Weighing; Calibration; Force; Load cells; *TN436*. **SP305-1**.
- Proximity; Rhombic; Spacing; Antenna; Comparison; Coplanar; Gain; Interactions; Mutuals; Nested; Patterns; Planar; *11467*. **SP305-2**.
- Proximity effect; Superconductive alloys; Superconductive compounds; Superconductivity; High transition temperature; Pressure effects; *13544*. **SP305-5**.
- Pseudo-acyclic intermediates in mutarotation; Sugars; Mutarotation of; Thermodynamic data for mutarotations; Acid and base catalysts; Catalysis of mutarotation; Deuterium oxide mutarotation of; Isotope effects in mutarotations; Mechanism of mutarotation reaction; Mutarotases; *14456*. **SP305-6**.
- Pseudogout; Solubility; Solubility product; Synovial fluid; Calcium diphosphate; Calcium pyrophosphate; Chondrocalcinosis; *16230*. **SP305-8**.
- Pseudointersection graph; Set covering; Clique; Clique graph; Intersection graph; *J. Res. 80B No. 4, 441-445 (1976)*. **SP305-8**.
- Pseudonatural orbitals; Electronic energy;  $\text{He}_2^+$ ; Molecular quantum mechanics; *9692*. **SP305-1**.
- Pseudopentagonal; Stacking fault; Twin; Wedge; Crystal; Disclination; Dislocation; *15767*. **SP305-8**.
- Pseudopotential; Aluminum (Al); Dielectric constant; Electronic density of states; Interband transition; Optical properties; *SP323*, pp. 33-36. **SP305-4**.
- Pseudopotential; APW; Band structure; Density of states; Disordered systems; KKR;  $t$ -matrix; Molecular crystals; *SP323*, p. 1-12. **SP305-4**.
- Pseudopotential; Band structure; Crystal potential; Electron density of states; *SP323*, p. 755. **SP305-4**.
- Pseudopotential; Beryllium; Knight shift; Orthogonalized plane wave (OPW); *SP323*, p. 649. **SP305-4**.
- Pseudopotential; Quasi-particle; Satellite structure; Electron density of states; Free-electron like metals; Interband absorption; Optical properties; Plasmon; *SP323*, pp. 125-12. **SP305-4**.
- Pseudopotential; Random phase approximation; Tight-binding Augmented plane wave method (APW); Electronic density of states;  $K$ - $p$  method; LCAO; Lead telluride ( $\text{PbTe}$ ); Optical properties; *SP323*, pp. 115-123. **SP305-4**.
- Pseudopotential;  $\text{Rb}_2^+$ ; Resonant charge transfer; Atom; Collision;  $\text{Cs}_2^+$ ; Ion;  $\text{Li}_2^+$ ; Low energy;  $\text{Na}_2^+$ ; *15075*. **SP305-7**.
- Pseudopotential; Resistivity ratios; Rubidium; Sodium; The molelement power; Alkali metals; Alloys; Cesium; Knight shift; Lithium; Potassium; Pressure dependences; *SP323*, p. 651-657. **SP305-4**.
- Pseudopotential; Sodium; Interband transition theory; Optical absorption; Potassium; *11921*. **SP305-3**.
- Pseudopotential; Sodium (Na); Soft x-ray emission; Aluminum Core hole; Electronic density of states; Fermi edge singularity; *SP323*, pp. 269-270. **SP305-4**.
- Pseudopotential;  $T$ -matrix; APW; Band structure; Density of states; Disordered systems; KKR; Molecular crystals; *J74 No. 2, 241-252 (1970)*. **SP305-2**.
- Pseudopotential; Transition-metal behavior; Calcium; De Haas van Alphen; Electronic density of states; Low-temperature specific heat; *SP323*, pp. 57-61. **SP305-4**.
- Pseudopotential; Zintl phases; Chemical bonding; Phase stabilization; *13213*. **SP305-5**.
- Pseudopotentials; Band structure; Cohesion; Core-core interactions; Electron density; Inter-atomic; One-electron potential; *SP317*, pp. 179-200. **SP305-3**.
- Pseudopotentials; Molecular structure; *15815*. **SP305-8**.
- Pseudopotentials; Self-consistent field; Valence electrons; Basis functions; Configuration mixing; Dipole moments; Electron structure of molecules; Hartree-Fock; Integrals, evaluation of; Molecular structure; Orbitals; Potential energy curve; *16611*. **SP305-8**.
- Pseudo-random; Quadrature; Random numbers; Sequence Uniform distribution; Equidistribution; Numerical analysis; *11629*. **SP305-2**.
- Pseudo-random numbers; Scatter storage; Collision resolution Hash tables; Polynomial search; *15669*. **SP305-7**.
- Pseudorotation; Raman; Vibration; High amplitude; Internal rotation;  $\text{PF}_3$ ; *15370*. **SP305-7**.
- Pseudo-state expansion; Close coupling calculation; Electron scattering; *12155*. **SP305-3**.
- Pseudo-states; Close coupling; Elastic scattering; Electron Hydrogen atom; Polarizability; *11680*. **SP305-2**.
- Pseudo-states; Sturmians; Close coupling; Electron-atom scattering; Polarizabilities; *12950*. **SP305-4**.
- Psicose; Reduction; Ruthenium tetroxide; Sodium borohydride; Acetals; Fructose; Ketoses; Oxidation; *1212*. **SP305-3**.



ose; Stereospecific reduction; Tagatose; Cyclic acetals; Hex-3-enulopyranose; Hexodiolose; Hexulose; 12436. **SP305-5.**

choacoustic data; Recordings in the field; Tape recording; Acoustic measurements; Calibrated tape recordings; Data acquisition; Magnetic recording; *TN718*. **SP305-4.**

choacoustics; Psychophysics; Loudness; Noise; 13625. **SP305-5.**

choacoustics; Reverberation room; Sound level meters; Acoustic standards; Building acoustics; Community noise; Arphones; Environmental noise; Instrumentation; Measurement methodologies; Microphones; 15502. **SP305-7.**

choacoustics; Speech interference; Aircraft noise; Annoyance; Noise; 15536. **SP305-7.**

choacoustics; Threshold; Air-conduction; Audiometry; one-air cancellation; Bone-conduction; Hearing; Masking; 0077. **SP305-1.**

chological; Solar glass; Spaciousness; Sunshine; View; Windowless; Windows; Daylight; Fenestration; *BSS70*. **SP305-7.**

chological deterrence; Security systems; Sensory processes; Threat analysis; Behavioral impact; Cognitive processes; Nuclear weapon theft; Perceptual processes; *NBSIR 76-1007*. **SP305-8.**

chology; Acoustics; Human factors; Human occupancy; Illumination; Interdisciplinary approach; Physiology; 15364. **SP305-7.**

chology; Psychophysics; Stress (physiological); Stress (psychological); Work; Bibliography; Effort; Environment; Fatigue; Human performance; Human physiology; *SP319*. **SP305-2.**

chology; Readability; Standards; Symbols; Type faces; Typography; Visibility; Alphanumeric characters; Displays; Handbook; Human factors; Legibility; *M262-2*. **SP305-5.**

chology; Space station simulator; Submersible; Closed ecological system; Habitability; Maintainability prediction; Microbiology; Microflora shift; Physiology; *SP336*, pp. 599-21. **SP305-3.**

chology of color; Color aesthetics; Color vision; 12731. **SP305-4.**

chrometric functions; Psychophysics; Space perception; Auditory localization; Diffraction patterns; Earphone simulation; Human audition; Interaural differences; Minimum audible angle; 14063. **SP305-6.**

chromotor; Safety; Glare; Lighting; Perceptual/motor; *NBS-CR-75-45*. **SP305-8.**

chopathic personality; Arson; Firesetting; 15837. **SP305-8.**

chophysics; Loudness; Noise; Psychoacoustics; 13625. **SP305-5.**

chophysics; Pollution; 14177. **SP305-6.**

chophysics; Scaling of color; Color; Gloss; Light; Perception of color; Photometry; Physiological optics; 9336. **SP305-5.**

chophysics; Schedules of reinforcement; Audition; Aversion to sound; Escape and avoidance; Loudness; Noisiness; 4414. **SP305-6.**

chophysics; Space perception; Audition and ranging; Physiological and psychological acoustics; 13471. **SP305-5.**

chophysics; Space perception; Auditory localization; Diffraction patterns; Earphone simulation; Human audition; Interaural differences; Minimum audible angle; Psychometric functions; 14063. **SP305-6.**

chophysics; Stress (physiological); Stress (psychological); Work; Bibliography; Effort; Environment; Fatigue; Human performance; Human physiology; Psychology; *SP319*. **SP305-2.**

chrometer; Psychrometric factor; Saturation; Thermodynamic wet-bulb temperature; Vapor content; Wet-bulb; Adiabatic saturation; Gas mixtures; Humidity; Hygrometer; Mixing ratio; Moist gas; *J72C No. 1*, 33-47 (1968). **SP305-1.**

Psychrometer; Vapor pressure; Adiabatic saturation; Dew point temperature; Humidity; Hygrometer; Mixing ratio; Moist gas; *J75C No. 2*, 69-78 (1971). **SP305-3.**

Psychrometric chart; Relative humidity; Vapor pressure of water; Wet-bulb temperature; Antoine Equation; Dew point; Humidity; Hygrometry; *J74C Nos. 3 and 4*, 117-122 (1970). **SP305-2.**

Psychrometric charts; Psychrometric formula; Temperature for moist air and enthalpy; Thermodynamic watt bulb temperature; Instrumentation-measurement; Metric psychrometric charts; 9659. **SP305-1.**

Psychrometric factor; Saturation; Thermodynamic wet-bulb temperature; Vapor content; Wet-bulb; Adiabatic saturation; Gas mixtures; Humidity; Hygrometer; Mixing ratio; Moist gas; Psychrometer; *J72C No. 1*, 33-47 (1968). **SP305-1.**

Psychrometric formula; Temperature for moist air and enthalpy; Thermodynamic watt bulb temperature; Instrumentation-measurement; Metric psychrometric charts; Psychrometric charts; 9659. **SP305-1.**

Psychrometric formulas; Thermocouple psychrometers; Thermodynamic wet bulb temperature; Aspirating psychrometers; Dry- and wet-bulb psychrometers; Errors in psychrometric measurements; 12445. **SP305-4.**

Psychrometrics; Saturated and unsaturated moist air; Thermodynamic properties; Computer algorithm; *BSS21*. **SP305-2.**

Psychrometry; Dew point; Hygrometry; Meterology; Moisture measurement in gases; 11991. **SP305-3.**

Pt; Surface cleanliness; Valence-band; X-ray photoemission; Electronic density of states; 14136. **SP305-6.**

Pt; W; WC; Catalysis; Density of states; Magnetic exchange enhancement; 14287. **SP305-6.**

*p-t* relation; *p-t* relation of water; Standard resistance thermometers; Temperature; Vapor pressure; Vapor pressure of water; Water; Manometer; Precision manometer; Pressure; *J73A No. 5*, 493-496 (1969). **SP305-1.**

*p-t* relation of water; Standard resistance thermometers; Temperature; Vapor pressure; Vapor pressure of water; Water; Manometer; Precision manometer; Pressure; *p-t* relation; *J73A No. 5*, 493-496 (1969). **SP305-1.**

Pt-Cu; Silver; tellurium ( $Ag_2Te$ ); Ti-Al; Ti-Co; Ti-Fe; Ti-Ni;  $Ti_2Te$ ; Binary alloys;  $Bi_2Te_3$ ; CdSb; Copper-gold (Cu-Au);  $Cu_3Au$ ; CuPt;  $Cu_3Pt$ ; *SP323*, pp. 483-492. **SP305-4.**

PTFE heat-shrinkable tubing; Tubing, heat-shrinkable fluorocarbon plastic; FEP heat-shrinkable tubing; Fluorocarbon plastic heat-shrinkable tubing; Plastic tubing, fluorocarbon; *PS47-71*. **SP305-3.**

PTFE lined pipe; Steel pipe and fittings, plastic lined; Pipe and fittings, steel, plastic lined; Plastic lined steel pipe; Polytetrafluoroethylene plastic lined pipe; *PS33-70*. **SP305-3.**

PTFE plugs for glass stopcocks; Stopcocks; Glass stopcocks with PTFE plugs; Glass with PTFE plugs; *PS28-70*. **SP305-2.**

PTFE tubing; Tubing, PTFE-fluorocarbon; Chemical, mechanical, and electrical tubing; Fluorocarbon plastic tubing; Plastic tubing, polytetrafluoroethylene; *PS52-71*. **SP305-4.**

*p*th roots; Symplectic matrices; Generalized permutations; 15790. **SP305-8.**

Ptolemaic and Roman Periods; Archaeological materials; Egyptian glasses; Galena ores; Kohl; Lead isotopes; 14912. **SP305-7.**

*p*-tolyl di-*n*-propyl Nile Blue base; Relative strengths of indicator dyes; Solvatochromism; Acid-base indicators; Acidity in nonaqueous solvents; Aprotic solvents; Methyl Yellow; Nile Blue A and derivatives; Nile Blue oxazone; 9660. **SP305-1.**

*P*-type; Resistivity; Silicon; Temperature coefficients; Extrinsic exhaustion region; Germanium; *N*-type; 10736. **SP305-1.**

*p*-type GaN; Schottky barrier diode; Single crystal GaN; 14N<sup>+</sup> implantation; 14938. **SP305-7.**

- p*-type germanium; Electron drift mobility; Germanium diode; Lithium-ion drift mobility; Lithium precipitation; Oxygen concentration; 12421. SP305-4.
- p*-type silicon; Resistivity depth profiling; Resistivity radial profiling; Semiconductors; Spreading resistance measurements; Surface effects; Surface preparation; Bevel polishing; SP400-10, pp. 249-256. SP305-6.
- Pu isotopes; U;  $^{235}\text{U}(n,f)$ ; Calculated  $\langle\sigma\rangle$ ; Deduced channel spectrum;  $E = 3.5$  MeV; Fission; Nuclear reactions; SP425, pp. 129-138. SP305-7.
- Pu isotopes,  $^{241}\text{Am}$ ; Actinide management; Neutron capture cross sections; SP425, pp. 229-231. SP305-7.
- Pu-Be and  $^{252}\text{Cf}$  neutron spectra; Spectra unfolding; Proton-recoil spectrometry; SP425, pp. 62-65. SP305-7.
- Public; Science; Technology transfer; Administration; Education; Information; Management; 14716. SP305-6.
- Public administration; State and local government; Systems analysis; Technology utilization; Vote-tallying; Computer security; Computing technology; Election administration; NBSIR 75-687. SP305-7.
- Public concern; Executive programs; Information management; Information processing; Legislative programs; National policies; 16245. SP305-8.
- Public good; Scientific and technical information; Semi-public good; Subsidization; Total cost recovery; User charges; Automated information retrieval; Cost benefit; TN864. SP305-7.
- Public health and safety; Self-calibration by users; Special NBS facilities; Astin-Branscomb transition; Astin legacy; Compatibility and reproducibility of measurements; Contributions to basic science; Design and performance standards; Fundamental constants; 14344. SP305-6.
- Public information; Computer privacy; Freedom of information; Information; 14109. SP305-6.
- Public Law 90-472; Metric system; Metric usage; 11759. SP305-2.
- Public Law 90-472; U.S. Metric Study; Metric conversion; Metric system; Metric usage; Metrication; SP345. SP305-3.
- Public Law 93-380; Public Law 94-168; Anthropomorphic units; Bicentennial; History of measurement; Metric conversion; Metric roll call; Metrology; 16195. SP305-8.
- Public Law 94-168; Anthropomorphic units; Bicentennial; History of measurement; Metric conversion; Metric roll call; Metrology; Public Law 93-380; 16195. SP305-8.
- Public policy in science; 10851. SP305-1.
- Public safety; Safety responsibility; Construction safety; Construction surety; Degradation of safety with age and use; Maintenance of safety; SP423, pp. 165-170 (Apr. 1976). SP305-8.
- Public service; Torsion balance; Eötvös balance; Eötvös' law of surface tension; Equivalence of gravitational and inertial mass; Geophysical exploration; 14638. SP305-6.
- Public services; Security; Standards; User groups; Computers; Data base management; Governments; Management information systems; 15923. SP305-8.
- Public services; Social impact of automation; Automation technology; Economic impact of automation; Productivity improvement; SP448. SP305-8.
- Public utility safety; Safety work rules; Communication industry safety; Electrical safety; Operation of communication systems; Operation of electrical supply systems; 14670. SP305-6.
- Publication; Documentation; Information retrieval; 9244. SP305.
- Publication; Reference data; Review; Chemistry; Evaluation of data; Information retrieval; Physics; 11313. SP305-2.
- Publication; Typesetting; Automation; Computers; Photocomposition; Printing; 9591. SP305-1.
- Publication policies, astronomy; Astronomy, working library; Libraries, astronomy; 12171. SP305-3.
- Publication problems; Review journals; Authors of review; Critical reviews; Editorial problems; Information requirements; 10981. SP305-2.
- Publication standards; Standard reference data; Chemistry; Critical data; Evaluation of delay; Information analysis; 13283. SP305-5.
- Publication standards; Titles; Abstracts; Chemistry; Content articles; Data; Description of experiments; Evaluation data; Numerical data; 11806. SP305-3.
- Publications; Abstracts; Center for Building Technology; Words; SP457. SP305-8.
- Publications; Abstracts; NBS publications; Key words; SP3 Supplement 7. SP305-8.
- Publications; Abstracts; NBS publications; Key words; SP3 Supplement 4. SP305-5.
- Publications; Abstracts; NBS publications; Key words; SP3 Supplement 3. SP305-4.
- Publications; Abstracts; NBS publications; Key words; SP3 Supplement 5. SP305-6.
- Publications; Abstracts; NBS publications; Key words; SP3 Supplement 6. SP305-7.
- Publications; Articles; SP305. SP305-1.
- Publications; Articles; SP305. Suppl. 1. SP305-3.
- Publications; Key words; Abstracts; NBS publications; SP3 Suppl. 2. SP305-3.
- Publications; Reference data; Journal; Professional societies; 15734. SP305-8.
- Publications; Samuel Stanley Wilks; S. S. Wilks; Bibliographic citations; 15017. SP305-7.
- Publications; Scientific literature; Manuscripts; 10625. SP305-1.
- Publishing; Redacting; Abstracts; Editing; Journals; 92 SP305.
- Puerto Rico; Replicates; Sediments; Standard; Trace element accuracy; Atomic Absorption Spectrometry; Caribbean Precision; SP422, pp. 1089-1102 (Aug. 1976). SP305-8.
- Pull; Push; Safety; Strength; Squeeze; Test methods; Toys; 1 safety; Twist; Children; Children's strength; 13595. SP305-7.
- Pull rate; Pull strength; Resolution-of-forces; Semiconductor devices; Ultrasonic bonding; Wire bond; Bond angle; Bonding; Bond pull test; Bond-to-bond spacing; Large wire; Loop height; Microelectronics; Nondestructive bond pull test; Position of hook; SP400-18. SP305-8.
- Pull strength; Resolution-of-forces; Semiconductor devices; Ultrasonic bonding; Wire bond; Bond angle; Bonding; Bond pull test; Bond-to-bond spacing; Large wire; Loop height; Microelectronics; Nondestructive bond pull test; Position of hook; Pull rate; SP400-18. SP305-8.
- Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameter; Switching transients; Thermal resistance; Thermally stabilized measurements; TN773. SP305-5.
- Pull test; Recombination centers; Resistivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameter; Switching transients; Thermal resistance; Thermally stabilized properties; TN788. SP305-5.
- Pull test; Recombination centers; Resistivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Spreading resistance; Thermal resistance; TN806. SP305-5.
- Pull test; Resistivity; Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Shear test; Sheet resistors; Silicon on sapphire; SP400-19. SP305-8.

test; Resistivity; Scanning acoustic microscope; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Silicon dioxide; Silicon on sapphire; Spreading resistance; *SP400-25. SP305-8.*

Apertures; Safety; Strength; Test methods; Toys; Toy safety; Children; Children's strength; *NBSIR 73-424. SP305-6.*

Out loads; Sustained load; Anchors; Concrete slabs; Design loads; Fatigue; Inserts; *BSS42. SP305-4.*

Out strength; Splitting tensile strength; Compressive strength; Concrete; Maturity; Mechanical properties; Non-destructive evaluation; *TN932. SP305-8.*

Out tests; Bond strength; Coated reinforcing bars; Evaluation; Organic coatings; *15782. SP305-8.*

Pulp; Testing methods; Testing methods for pulp; ISO recommendations; *NBSIR 73-416. SP305-6.*

Capping materials; Zinc oxide-EBA-eugenol cements; Crown and bridge cements; Dental cements; EBA cements; EBA sedative bases; Intermediate restorative; o-ethoxybenzoic acid cements; *SP354, pp. 101-111. SP305-4.*

Protection; Retention; Temporary cementation; Cementation; Intermediary base; *13611. SP305-5.*

Secondary; Recycled paper; Secondary pulp; Waste paper; Market pulp; Paper; waste; *15604. SP305-7.*

Testing methods; Testing methods for pulp; ISO recommendations; Pulp; *NBSIR 73-416. SP305-6.*

Detector; Dye laser; GaAs; Photoconductor; Picosecond; *15651. SP305-7.*

Pulse generators; Pulse measurement; Transmission lines; Oscilloscopes; *15304. SP305-7.*

Pyroelectric; Autocorrelation; Detector; *14741. SP305-7.*

Quadrupole; Resonance; Spectroscopy; Transistor; Freeman; Current; Modulator; Nuclear; *12350. SP305-3.*

Random sampling; Risettime; Sampling; Time base; Transition time; Mercury switch; Oscilloscope; Picosecond; *13799. SP305-5.*

Random sampling; Risettime; Sampling; Transition time; Mercury switch; Oscilloscope; Picosecond; *14262. SP305-6.*

Receiving end; Skin effect; Step response; Time domain; Voltage divider; Asymptotic expansion; Characteristic impedance; Coaxial line; Complimentary error function; Conductor; Cylindrical; Dielectric; Error; Generator; Lossy; Microminiature; Model; Planar; *14347. SP305-6.*

Rise time; Sampling oscilloscope; Spectrum amplitude; Time domain; Transient; Automated measurement; *16477. SP305-8.*

S parameters; Time domain; Attenuation; Automated measurement; Network analyzer; *15661. SP305-7.*

Sampling; Slideback; Standard; Oscilloscope; Peak voltage; *9972. SP305-1.*

Time-of-flight; After-pulse; Gamma flash; Neutron; Photomultiplier; *12741. SP305-4.*

Waveguide; Fiber optics; GaAs; Impulse; Laser; Optics; Picosecond; *14004. SP305-6.*

Calorimetry; Solid electrical conductors; Measurements at high temperatures; Millisecond resolution; *13276. SP305-5.*

Calorimetry; Thermodynamics; Thermophysical properties; High-speed measurements; High temperature; *15146. SP305-7.*

Circuit; Pyroelectricity; Detector circuits; Power measurement; *14733. SP305-7.*

Comparison techniques; Pulse rise-times; Baseband pulse se-times; Basic instrumentation system; Fractional nanosecond pulse rise-times; Oscillographic systems; *9962. SP305-1.*

Delay; Superconducting; Telecommunications; Transmission lines; Cables; Coaxial; Cryogenic; Miniature; *13338. SP305-5.*

Pulse discharge; Collision model; Early afterglow; Electron temperature; Helium metastables; Helium plasma; *15958. SP305-8.*

Pulse distortion in transmission lines; Pulse techniques; Reference waveform generation; Time domain measurements; Transient response Debye dielectric; *NBSIR 73-304. SP305-6.*

Pulse duration dependence; Repetition rate dependence; Surface damage;  $1.06 \mu\text{m}$ ;  $0.694 \mu\text{m}$ ;  $\text{Ag}_3\text{AsS}_4$ ; Proustite; *SP387, pp. 239-249. SP305-5.*

Pulse duration distribution; Time statistics; Allan variance analysis; Amplitude probability distribution; Amplitude statistics; Average crossing rate; Electromagnetic interference; Electromagnetic noise; Impulsive noise; Interpulse spacing distribution; *NBSIR 74-378. SP305-6.*

Pulse dynamics; Reflection; Ruby laser; Surface damage; Temporal pulse monitoring; Transmission;  $0.694 \mu\text{m}$ ; Back-scattering; Precatastrophic damage; *SP414, pp. 179-189. SP305-6.*

Pulse echo; Steel ultrasonic standards; Titanium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference standards; Calibration; Fabrication variables; Immersion testing; Interim reference standard; Longitudinal waves; *NBSIR 76-984. SP305-8.*

Pulse generator; Pulse measurement; Superconductivity; Mercury switch; Picosecond; *NBSIR 74-377. SP305-6.*

Pulse generator; Pulse measurement; Sampling oscilloscope; Scattering parameters; Spectral analysis; Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Jitter; Microwave measurement; Mismatch; Network analyzer; Noise; *TN672. SP305-7.*

Pulse generator; Risettime; Trigger; Tunnel diode; Directional coupler; Picosecond; *15653. SP305-7.*

Pulse generator; Step waveform; Tunnel diode; Directional coupler; Fast risetime; Flat pulse baseline/topline; *U.S. Patent 3,967,140. SP305-8.*

Pulse generator; Sweep generator; Time base; Traveling wave oscilloscope; High voltage pulse; Nanosecond; Oscilloscope; *12481. SP305-4.*

Pulse generator bias supply; Tunnel diode; Jitter; Picosecond; *11849. SP305-3.*

Pulse generators; Pulse measurement; Transmission lines; Oscilloscopes; Pulse; *15304. SP305-7.*

Pulse generators; Standard waveforms; Lossy uniform transmission lines; Oscilloscope errors; *12045. SP305-3.*

Pulse height analyzer; Spectrochemical analysis; Spectroscopy; Standard reference materials; Time-shared computer; X-ray spectroscopy; Analysis; Arc temperature; Atomic absorption spectrometry; Analog computer; Bibliography; Computer; Electrodeposition; *TN401. SP305.*

Pulse laser power; Electrically calibrated pyroelectric detector; Gold-black; Piezoelectric; *16135. SP305-8.*

Pulse measurement; Automation; Electrical measurements; Electrooptics; High voltage measurement; Kerr effect; Optical coupling; *15718. SP305-8.*

Pulse measurement; Sampling oscilloscope; Scattering parameters; Spectral analysis; Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Jitter; Microwave measurement; Mismatch; Network analyzer; Noise; Pulse generator; *TN672. SP305-7.*

Pulse measurement; Spectrum; Spectrum amplitude; Calibration; Fourier transform; Impulse generator; *16463. SP305-8.*

Pulse measurement; Superconductivity; Mercury switch; Picosecond; Pulse generator; *NBSIR 74-377. SP305-6.*

Pulse measurement; Superconductivity; Delay line; Picosecond; *14776. SP305-7.*

Pulse measurement; Superconductivity; Delay line; Picosecond; *14825. SP305-7.*

Pulse measurement; Transmission lines; Oscilloscopes; Pulse; Pulse generators; *15304. SP305-7.*

- Pulse measurements; Dielectric liquids; Electric field measurements; Electrooptical measurements; High voltage measurements; Kerr cell; Laser applications; *12306. SP305-3.*
- Pulse measurements; Dielectric liquids; Electro-optical measurements; Electrostatic field measurements; High voltage measurements; Kerr cell; Laser applications; Potential measurements; *J73C Nos. 1 and 2, 5-13 (1969). SP305-1.*
- Pulse measurements; Dielectric liquids; Electric field measurements; Electro-optical measurements; High voltage measurements; Kerr cell; Laser applications; *11726. SP305-2.*
- Pulse measurements; Electro-optical measurements; High voltage measurements; Kerr cell; *10871. SP305-2.*
- Pulse measurements; Sampling; Laser; Optical pulse; Oscilloscope; Photoconductor; *16193. SP305-8.*
- Pulse measurements; Space charge; Automated measurements; Dielectrics; Dividers; Electrical measurement; Electric fields; Electro-optics; High voltage measurements; Insulating fluids; Kerr effect; Nitrobenzene; *NBSIR 75-774. SP305-7.*
- Pulse measurements; Water; Dielectric fluids; Electrical properties of fluids; High voltage measurements; Kerr coefficient; Kerr effect; Nitrobenzene; *NBSIR 74-544. SP305-6.*
- Pulse method; Ramsey dual interaction region; Second-order doppler; Velocity distribution; Cavity phase shift; Cesium beam tube; Frequency synthesis; *14829. SP305-7.*
- Pulse modulated carrier systems; RF peak pulse power; Notch wattmeter; Pulse-CW equalization; *TN682. SP305-8.*
- Pulse modulation; RF power; Measurement; Peak pulse power; *9792. SP305-1.*
- Pulse plating; Electroplating with current in microsecond pulses; *11366. SP305-2.*
- Pulse polarography; Trace analysis; Background correction; Differential pulse polarography; Dropping mercury electrode; Electroanalysis; *SP422, pp. 871-879 (Aug. 1976). SP305-8.*
- Pulse propagation; Radio positioning; Time dissemination; Time transfer system; Cyclan; Cytac; Loran; Loran-C; Low frequency; Navigation; *Monogr. 129. SP305-4.*
- Pulse radiolysis; Carbonium ions; Hydrocarbons; Ion-molecule reactions; Neutralization; *13175. SP305-5.*
- Pulse radiolysis; Charge recombination rate constants; Cobalt gamma radiolysis; Hydrocarbons; Ion-molecule reaction; Neutralization mechanisms; *15627. SP305-7.*
- Pulse radiolysis; Electron scavengers; Gas phase; Ion-molecule reactions; Methane; Neutralization; *J77A No. 2, 249-257 (1973). SP305-5.*
- Pulse radiolysis; Electron scavengers; Gas phase; Ion-molecule reactions; Neopentane; Neutralization; *J76A No. 4, 329-336 (1972). SP305-4.*
- Pulse radiolysis; Radiation dosimetry; Radiochromic dyes; Absorbed dose rate; Depth dose; Dose distribution; Dye films; Electron beams; Optical cell; *15277. SP305-7.*
- Pulse radiolysis; Vacuum ultraviolet photolysis; Acetylene formation; Electron scavenger; Ion pair yields; Methane; *J77A No. 1, 109-114 (1973). SP305-5.*
- Pulse response; Transient analysis; Transmission lines; Cables; Coaxial; *13378. SP305-5.*
- Pulse rise-times; Baseband pulse rise-times; Basic instrumentation system; Fractional nanosecond pulse rise-times; Oscillographic systems; Pulse comparison techniques; *9962. SP305-1.*
- Pulse shape discrimination; Tropospheric mixing; Ar-37; Atmospheric radioactivity; Cosmic-ray reactions; Exponential distribution; Low-level counting; Noble gas separation; On-line computer; *15744. SP305-8.*
- Pulse suppression; Scintillator; After-pulse; Detector; Gamma-flash; Photomultiplier; *SP425, pp. 106-107. SP305-7.*
- Pulse techniques; Electric fields; Electrical measurements; Electro-optics; High-speed photography; High-speed techniques; High-voltage techniques; Kerr effect; Laser application; Optical techniques; *12981. SP305-4.*
- Pulse techniques; Reference waveform generation; Time domain measurements; Transient response Debye dielectric; Pulse distortion in transmission lines; *NBSIR 73-304. SP305-6.*
- Pulse technology; Time domain testing; Automatic measuring devices; Automatic performance test; Computer control systems; Instrument calibration procedures; Instrument performance testing; *SP335, pp. 23-28. SP305-3.*
- Pulse voltage measurement; Space charge; Water; Calibration; Electrical measurements; High voltage measurements; Insulating fluids; Kerr coefficient; Nitrobenzene; *NBSIR 74-544. SP305-6.*
- Pulse-CW equalization; Pulse modulated carrier systems; Peak pulse power; Notch wattmeter; *TN682. SP305-8.*
- Pulsed beams; Radiation; Absorbed dose; Calorimetry; Distribution; Electron beams; Holography; Interferometry; *12100. SP305-3.*
- Pulsed beams; Refractive-index holography; Temperature profile; Absorbed dose; Calorimetry; Electron beams; Interference fringes; Interferometry; *12324. SP305-3.*
- Pulsed CO<sub>2</sub> laser damage; Surface damage; 10.6  $\mu$ m absorptivity; 10.6  $\mu$ m optical components; Dielectric coatings; Infrared laser windows; Laser heating of metal surfaces; Laser mirrors; *SP462, pp. 181-188 (Dec. 1976). SP305-8.*
- Pulsed CO<sub>2</sub> laser damage; Thin film damage; ZnTe; As<sub>2</sub>S<sub>3</sub>; CdTe; Dielectric reflector; Inclusions in dielectrics; *KSP387, pp. 157-169. SP305-5.*
- Pulsed CO<sub>2</sub> laser damage; Thin film coated metal; Uncoated metal mirrors; Damage mechanisms; Inclusions in dielectrics; Multilayer dielectric mirrors; *SP372, pp. 183-193. SP305-4.*
- Pulsed CO<sub>2</sub> laser damage. TlF<sub>4</sub>; ZnSe; As<sub>2</sub>S<sub>3</sub>; Laser coatings; Laser reflectors; Laser windows; *SP414, pp. 59-65. SP305-8.*
- Pulsed CO<sub>2</sub> TEA laser damage; Transmitted pulse; Waveform distortion; ZnSe; KCl; NaCl; *SP435, pp. 107-117 (Apr. 1976). SP305-8.*
- Pulsed DF laser damage; Sapphire; Scattering; Waveform distortion; Alkali-halides; Alkaline-earth fluorides; B<sub>2</sub>O<sub>3</sub> damage; Focal spot diameter; Inclusion damage; Interference ripples; *SP462, pp. 136-144 (Dec. 1976). SP305-8.*
- Pulsed excitation; Second-order Doppler shift; Velocity distribution; Atomic beams; Cavity phase shift; Cesium beam; Frequency accuracy; Frequency standard; *13985. SP305-6.*
- Pulsed excitation; Second-order Doppler shift; Velocity distribution; Atomic beams; Cavity phase shift; Cesium beam; Frequency standard; *13991. SP305-6.*
- Pulsed laser; Calorimetric measurement; Laser, pulsed; Output energy; *9806. SP305-1.*
- Pulsed laser; Thermal distortion; Laser windows and mirrors; Optical figure; *SP462, pp. 11-24 (Dec. 1976). SP305-8.*
- Pulsed laser damage; Rare earth fluorides; Zinc selenide coatings; Laser antireflective coatings; Materials purification requirements; *SP462, pp. 271-278 (Dec. 1976). SP305-8.*
- Pulsed laser damage; Semiconductor infrared windows; Surface state plasma; Two-stream instability threshold; Damage threshold of GaAs; Extended Shockley avalanche; *SP414, 200-206. SP305-6.*
- Pulsed laser damage; Thermal model; Angle of incidence; Polarization; *SP435, pp. 41-48 (Apr. 1976). SP305-8.*
- Pulsed laser emission; Rotational band spectrum; Accurate wavelength measurements; Laser; Molecular nitrogen pulsed laser; Nitrogen molecule; Nitrogen pulsed laser; *99. SP305-1.*
- Pulsed laser holograms; Stress corrosion cracking; Ultrasonic inspection; Aircraft component failure; Continuous wave holograms; Crack detection; Holographic techniques; *SP462, pp. 93-103 (Apr. 1976). SP305-8.*
- Pulsed lasers; Window damage; Mirror damage; *SP435, 202-206 (Apr. 1976). SP305-8.*



sed microwave; Rare-earth; Relaxation; Spin-lattice; Chlorides;  $Ce^{3+}$ ,  $Nd^{3+}$ ,  $Sm^{3+}$ ,  $Ho^{3+}$ , and  $Er^{3+}$ ; Electron-lattice interaction;  $LaCl_3$ ; 9924. SP305-1.

sed neutron sources; Time-of-flight; Carbon; Neutron total cross section; 14809. SP305-7.

sed NMR; Spin lattice relaxation; Knight shift; Magnetism; Nickel; 16357. SP305-8.

sed nuclear magnetic resonance; Scalar and quadrupolar coupling constants and relaxation effects; Boron-10; Boron-11; Dimethoxyborane; Proton; *J73A No. 2, 195-199 (1969)*. SP305-1.

sed nuclear resonance; Quadrupolar interactions; Spin echoes; K1; NiAl; Nuclear magnetic resonance; 11475. SP305-6.

sed power systems; Pulsed superconducting magnets; Superconductor losses; Supercritical helium; Transient heat transfer; Forced convection heat transfer; *NBSIR 74-363*. SP305-6.

sed quantities; Squids; Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM Metrology; Field strength; Impedance; Noise; Phase; Power; *NBSIR 74-395*. SP305-7.

sed quantities; Squids; Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM metrology; Field strength; Impedance; Laser parameters noise; Optical electronics; Phase; Power; *NBSIR 75-818*. SP305-7.

sed resonance; Fourier transform; Nuclear magnetic; 11882. SP305-3.

sed superconducting magnets; Superconductor losses; Supercritical helium; Transient heat transfer; Forced convection heat transfer; Pulsed power systems; *NBSIR 74-363*. SP305-6.

sed wavemeter timing; Oscilloscopes; 15647. SP305-7.

sed x rays; Radiographic imaging; Steady-state x rays; Detector calibrations; Fluorescence x-ray sources; K x-ray sources; *SP456*, pp. 41-45 (Nov. 1976). SP305-8.

sed 10.6  $\mu m$  laser damage; RAP materials; Transmitted pulse cutoff; Variable pulse duration; Alkali halides; Bulk image; Longitudinal mode control; *SP435*, pp. 118-125 (Apr. 1976). SP305-8.

e-echo; Steel ultrasonic standards; Titanium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference blocks; Fabrication of reference blocks; Immersion testing; Longitudinal waves; Metallurgical variables; Nondestructive testing; *NBSIR 75-685*. SP305-7.

e-echo; Ultrasonics; Aluminum ultrasonic reference standards; ASTM-type reference standards; Calibration; Interim reference standard; Longitudinal beam; Measurement system; Nondestructive evaluation; *TN924*. SP305-8.

e-echo method; Resonance method; Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Copper; Copper alloys; Elastic constants; Poisson ratio; 1505. SP305-8.

e-echo method; Sound velocity; Young's modulus; Bulk modulus; Chromium alloys; Compressibility; Debye temperature; Doping effect; Elastic constants; Iron alloys; Magnetic anisotropy; Nickel alloys; Poisson's ratio; 15343. SP305-7.

e-echo method; Sound velocity; Young's modulus; Aluminum; Aluminum alloys; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Elasticity; Poisson ratio; 1528. SP305-7.

e-echo method; Shear modulus; Young's modulus; Bulk modulus; Dental amalgam; Elastic constants; Poisson's ratio; 1339. SP305-1.

e-height weighting; Time-of-flight method;  $^{90}Nb$ , Ag,  $^{127}I$ ,  $^{137}Au$ ,  $^{139}La$  and  $^{238}U$ ;  $C_6F_6$  detector; Fe-filtered beam; Electron capture cross section; *SP425*, pp. 802-805. SP305-6.

Pulse-height-distribution; Spectra; Computer; Gamma-ray; Germanium-detector; On-line; 10725. SP305-1.

Pulse-rise-time standardization; Sampling oscilloscope standardization; Spectrum analyzer standardization; Termination mismatch error elimination; Thin-film bolometers; Voltage measurement; BOLOVAC; Calibration of current meters through microwaves; *Monogr. 123*. SP305-4.

Pulses; Radiation; Safety; X-ray generators; X rays; Calibration; Electrical measurements; Electro-optics; Frequency response; High voltage; Kerr effect; Operational amplifier; *NBSIR 75-775*. SP305-8.

Pulses; Robot; Sound; Construction; Dry weight; Ears; Energy; Health care; Hospitals; Measurement science; Meter; Metric; *DIM/INS* 59; No. 10, 218-239 (1975). SP305-7.

Pultruded rod; Reinforced plastics, rod and rope; Rope, GRP; Static fatigue of GRP; Aeolian vibration, simulated; Composite materials; End fittings for GRP rod and rope; Grips, guys; Guys, antenna; Humidity, effects on GRP; 13392. SP305-5.

Pultruded rods; Rods, insulator; Breakdown, electrical; Failure analysis; Fiberglass-reinforced plastics; Flammability; Guy insulators; High-voltage tests; Insulators, tower guy; Loran C; *NBSIR 76-1136*. SP305-8.

Pultrusion; Reinforced plastic rod; Stress rupture of GRP rod; Composite materials; End fittings for FRP rod; Environmental resistance of GRP rod; Fiber-reinforced-plastic rod; Glass-reinforced-plastic rod; Guys, antenna; Mechanical properties of GRP rod; *NBSIR 73-233*. SP305-6.

Pultrusion; Reinforced plastic rod; Stress rupture of FRP rod; Test methods, FRP rod; Weatherability, FRP rod; Composite materials; Fiber-reinforced-plastic rod; Glass-reinforced-polyester rod; Guys, antenna; Processing parameters, pultrusion; *NBSIR 74-557*. SP305-7.

Pultrusions; Stress-rupture testing; Sunlight; Ultraviolet radiation; Weatherability; Antenna-support materials; Environmental degradation; Guys, nonmetallic; Marine atmospheres; Plastics, fiber-reinforced; *NBSIR 76-1069*. SP305-8.

Pump; Pump design; Pump performance; Centrifugal; Helium; Nitrogen; 12176. SP305-3.

Pump; Recirculation; High pressure; Low flow rate; 10985. SP305-2.

Pump; Rectifier; Solenoid; Superconductivity; Switch; Temperature; Thermometer; Bearings; Bolometer; Electron microscope; Helium; Hydrogen; Level gauging; Liquid level; Magnet; Motor; 9715. SP305-1.

Pump; Refrigeration; Forced flow; Heat transfer; Helium; 14159. SP305-6.

Pump design; Pump performance; Centrifugal; Helium; Nitrogen; Pump; 12176. SP305-3.

Pump efficiency; Pump performance; Cavitation; Cryogenic motors; Induction motors; Liquid helium pumps; Motor efficiency; Net positive suction head; *NBSIR 75-816*. SP305-7.

Pump performance; Cavitation; Cryogenic motors; Induction motors; Liquid helium pumps; Motor efficiency; Net positive suction head; Pump efficiency; *NBSIR 75-816*. SP305-7.

Pump performance; Centrifugal; Helium; Nitrogen; Pump; Pump design; 12176. SP305-3.

Pump performance; Pumps; Superfluid; Cavitation; Helium; *NBSIR 73-316*. SP305-6.

Pumping; Saturation; Double resonance; Infrared; Laser; Methyl bromide; Microwave; 10422. SP305-1.

Pumping; Ultraclean; Vacuum; Anti-migration traps; Cold shrouding; Contamination; Environment; Ion pumping; Low pressure; Low temperature; *SP336*, pp. 661-668. SP305-3.

Pumping efficiency; Pumping speed; Speed factor measurements; Sticking coefficient; Vacuum techniques; Capture coefficient; Cryocondensation; Cryogenically cooled surfaces; Cryopump; Partial pressure measurements; Pressure calibration with vapor pressures; 10265. SP305-1.

- Pumping efficiency; Sublimation pumps; Vacuum pumps; Vapor pressure; Cryopumps; Getters; Ion pumps; 11513. SP305-2.
- Pumping processes; Radio astronomy; Silicon monoxide; Circular polarization; Maser; Orion; 15004. SP305-7.
- Pumping speed; Space simulation chamber; Vacuum; Cryopumping; Ion pump; SP336, pp. 683-698. SP305-3.
- Pumping speed; Speed factor measurements; Sticking coefficient; Vacuum techniques; Capture coefficient; Cryocondensation; Cryogenically cooled surfaces; Cryopump; Partial pressure measurements; Pressure calibration with vapor pressure; Pressure anisotropy; 10265. SP305-1.
- Pumps; Cavitation; Cryogenics; TN397. SP305-3.
- Pumps; Superfluid; Cavitation; Helium; Pump performance; NBSIR 73-316. SP305-6.
- Pumps; Venturi; Cavitation; Cryogenics; Hydrofoil; Nucleation; 13241. SP305-5.
- Pumps; Venturi; Cavitation; Cryogenics; Hydrofoil; Nucleation; Ogives; 13735. SP305-5.
- Pumps; Venturi; Cavitation; Cryogenics; Hydrofoil; Impellers; Inducers; Ogives; 14681. SP305-6.
- Punched cards; American Standard Code for Information Interchange; ASCII; Card punch; Card reader; Data communications; Data interchange; Data processing; Electric accounting machine; EAM cards; Federal Information Processing Standard; FIPS PUB 14. SP305-3.
- Punched cards; Rectangular holes; American Standard Code for Information Interchange; ASCII; Card punch; Card reader; Data communications; Data interchange; Data processing; Electric accounting machine; EAM cards; FIPS PUB 13. SP305-3.
- Punched paper tape typewriter; Automatic capitalization; Automatic deletions; Automatic stop for revision; Editorial mark sensing; Manual additions; Narrative text editing; TN440. SP305-1.
- Pupil function; Wave-front shearing interferometry; Impulse response; Lens aberrations; Optical transfer function; Partial coherence; 15396. SP305-7.
- Purchase specifications and standards; State; Specifications; State; Standards; State; State specifications and standards; Index of State specifications and standards; Key-Word-In-Context index of State specifications and standards; SP375. SP305-5.
- Purchasing; Standards; Consumers; Evaluation; 10303. SP305-1.
- Pure cadmium; Reproducibility; Superconductivity; Thermometric fixed point; Transition temperature; Transition widths; Cryogenics; 14530. SP305-6.
- Pure cadmium; Superconductive transition temperature; Superconductive transition width; Thermometric fixed point; OSRM; 15342. SP305-7.
- Pure components; Propane; Properties data; Calculation methods; Densities; Ethane; Liquefied natural gas mixtures; Methane; 13667. SP305-5.
- Pure containers; Container impurities; 11030. SP305-2.
- Pure elements; Superconductivity; Thermometric fixed points; Calibration techniques; Cryogenic temperature scale; OSRM; 12988. SP305-4.
- Pure materials; Sapphire;  $Al_2O_3$ ; Crystal growth; Damage threshold; Glass; High temperature materials; Laser; Oxides; Oxygen diffusion; TN703. SP305-3.
- Pure materials; Sapphire;  $Al_2O_3$ ; Crystal growth; Damage threshold; Glass; High temperature materials; Laser; Oxides; Oxygen diffusion; TN574. SP305-3.
- Pure precession; RKR potentials; A-doubling; Heterogeneous interaction; Molecular hydrogen; Nonadiabatic; 13897. SP305-6.
- Pure quadrupole resonance; Experimental techniques; Ferromagnetic nuclear resonance; Metallurgy; Mössbauer effect; Nuclear magnetic resonance; 13837. SP305-6.
- Pure reagents; Spark source mass spectrometry; Sub-boiling trace elements; Distillation; Isotope dilution; 13088. SP305-5.
- Pure reference materials; Reference methods; Routine methods; Secondary reference materials; Standard Reference Materials; Definitive method; Matrix reference materials; 1610. SP305-8.
- Pure shear; Simple extension; Simple shear; Stress relaxation; Time effects; Uniaxial strain; Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; Elastic strain energy function; Finite strain; Non-linear behavior; 9583. SP305-1.
- Pure states; Quantum optics; Representation theory; Coherent states; Density operator; Distribution theory; Electromagnetic field; Photon statistics; P representation; 10860. SP305-1.
- Pure tones; Acoustic navigation aids; Applied psychoaoustic; Applied psychology; Aversiveness; Foghorns; Preference; 14821. SP305-7.
- Pure tones; Second order schedules; Aversion for sour avoidance; Differential reinforcement of high rate; Escape; High school students; Key press; 14815. SP305-7.
- Pure-tone audiometers; Threshold of hearing; Uncertainty threshold of hearing standard; Artificial ear; Earphones; International audiometric reference zero; 11186. SP305-2.
- Purification; Annealing; Copper; Oxidation; 14186. SP305-6.
- Purification; Purity; Solid solution; Crystallization; Entrapment; Impurity; Phase equilibrium; 11111. SP305-2.
- Purification; Reagents; Zone refining; Ion exchange; TN41. SP305-1.
- Purification; Refrigeration; Safety; Storage; Thermodynamic properties; Transportation; Conservation; Cryoelectronics; Cryogenics; Cryopumping; Helium; Liquefaction; Magnetic Monogr. 111. SP305-1.
- Purification; Separation; Styrene/divinylbenzene; Zeolites; Pollution; Bilirubin; Infrared analysis; Ion exchange; Liquid chromatography; TN549. SP305-3.
- Purification; Separation; Styrene/divinylbenzene; Ultra-pure agents; Gas chromatography; Infrared analysis; Ion exchange; Liquid chromatography; TN509. SP305-2.
- Purification; Space processing; Convection; Crystal growth; Crystal perfection; Microgravity; NBSIR 76-980. SP305-8.
- Purification; Vapor pressure; Carbon dioxide; Fixed point; Hydrostatic; Pressure standard; J72C No. 1, 27-32 (1966). SP305-1.
- Purification (evaporative); Solvent-capillary; Thermal capillary convection; Vacuum vaporization;  $Al_2O_3$ ; Complex equilibria; Convective-diffusion; Evaporative rate; 13923. SP305-6.
- Purification (evaporative); Solvent-capillary; Thermal capillary convection; Vacuum vaporization;  $Al_2O_3$ ; Complex equilibria; Convective diffusion; Evaporative rate; 15968. SP305-8.
- Purification (evaporative); Vacuum vaporization;  $Al_2O_3$ ; Chemical doping; Complex equilibria; 15333. SP305-7.
- Purification methods; Resins for composites; Ternary eutectic; Thermosetting monomers; Biomaterials; Dimethacrylate; Phthalate monomers; 11802. SP305-3.
- Purification of research quantities of materials; Research quantities; Distillation; Material; 9884. SP305-1.
- Purine bases; Adenine; Copper(II); EPR spectra; Exchange coupling; Metal ion pairs; Optical spectra; 10913. SP305-2.
- Purities; Silver; Titanium; Yields; Aluminum; Beryllium; Carbon; Copper; Electron excitation; Gold; K x-ray beam; 14261. SP305-6.
- Purity; Calorimetry; Cryoscopy; Dilatometry; Freezing; Heat fusion; Melting; Melting point; Molecular weight; 105. SP305-2.
- Purity; Reagents; Accuracy; Analysts; Apparatus; Blank; Contamination; Environment; SP422, pp. 509-539 (Aug. 1970). SP305-8.

- y; Refractive index; Refractometer; Contamination; Differential refractometer; Identification; Impurity; Interferometry; 12475. **SP305-4.**
- y; Sampling; Standard sample; Volatile content; Ash content; Elemental analysis; Homogeneity; Lithium content; Molecular weights; Polymer; Preparation; *J.71A1-435, 43-47* (1976). **SP305.**
- y; Scattering; Contaminants; Cryogenics; Eddy currents; Eddy current tests; Electrical resistivity; Nondestructive tests; 974. **SP305-4.**
- y; Scattering; Time constant; Contaminants; Cryogenics; Eddy currents; Eddy current tests; Electrical resistivity; Nondestructive tests; 12585. **SP305-4.**
- y; Smoothing of observations; Thermodynamic properties; Thermodynamics; Thermometry; Time; Vaporization correction; Adiabatic calorimetry; Calorimeters; Calorimetry; Cryoscopy; Cryostats; Curvature correction; Heat-leak correction; 11189. **SP305-2.**
- y; Solid solution; Crystallization; Entrapment; Impurity; Phase equilibrium; Purification; 11111. **SP305-2.**
- y; Space manufacturing; Space processing; Zero-g; Material processing; Perfection; *NBSIR 73-402*. **SP305-6.**
- y; SRM; Standard Reference Materials; VMA; Bilirubin; Cholesterol; Cortisol; E.s.r.; D-mannitol; NADH; N.m.r.; 587. **SP305-4.**
- y; Synthesis; Telomerization; Cyclic inter-intramolecular chainism; Diene polymerization; Fluorodienes; Intermediates; Polymerization; *J.75A No. 1, 41-56* (1971). **SP305-2.**
- y; Thermodynamics; Adiabatic calorimetry; Calorimeter; Calorimetry; Cryoscopy; Melting; Phase transition; 11188. **SP305-2.**
- y; X-ray beams; Beryllium to gold; Electron produced; High intensity; Monochromatic yields; 12114. **SP305-3.**
- y assay; Reaction coupling; Thermodynamics; Warfarin; Enosinetrphosphate-thermodynamics; Chemical bond energy; Coiled helix thermolipies; Drug receptor complexing; Enzyme detection + analysis; Equilibrium; Free energy; 13730. **SP305-5.**
- y definition; Reagent contamination; Ultrapurification; Analytical blanks; Analytical reagents; Contamination control; High-purity reagents; Membrane filtration; Mercury electrode electrolysis; Prepurification; *SP422*, pp. 363-375 (Aug. 1976). **SP305-8.**
- y of material; Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; Property of material; *M260, 1967 Edition*. **SP305.**
- y of material; Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; Property of material; *M260, 1968 Edition*. **SP305-2.**
- y of material; Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; Property of material; *SP260, July 1969 Edition*. **SP305-1.**
- y; Safety; Strength; Squeeze; Test methods; Toys; Toy safety; Twist; Children; Children's strength; Pull; 13595. **SP305-5.**
- y; down; Radioactivity and isotopic calculations; Recursion; Statistical calculations; Instruction list; Iteration; Memory register; Operational stack; Pop-up; Polish notation; 13740. **SP305-5.**
- y; Be; Radiation simulation; RTG; Test; Evaluation; SFETs; Neutrons; *SP336*, pp. 129-140. **SP305-3.**
- y; Residual stress; Thermoplastic piping; ABS; Coefficient expansion; CPVC; Glass transition temperature; Hardness; Polybutene; Polyvinyl chloride; *NBSIR 74-629*. **SP305-7.**
- y; Smoke; ABS; DWV; Fire endurance; Fire spread; Fire test; Gases; Plastic pipe plumbing; *BSS72*. **SP305-7.**
- PVC; Smoke; Toxic gases; Vent; Waste; ABS; Cast iron; Copper; Drain; Fire endurance; Fire spread; Fire test; Operation BREAKTHROUGH; Plastic pipe; *NBSIR 74-449*. **SP305-7.**
- PVC profile extrusions; Rigid PVC; Extrusions; Poly(vinyl chloride); Profile; Profile extrusions; *PS26-70*. **SP305-2.**
- PVF<sub>2</sub>; Pyroelectric detectors; Uniform polarization; Infrared detectors; 14146. **SP305-6.**
- PVF<sub>2</sub> lined pipe; Steel pipe and fittings, plastic lined; Pipe and fittings, steel, plastic lined; Plastic lined steel pipe; Poly(vinylidene fluoride) plastic lined pipe; *PS35-70*. **SP305-3.**
- PVT; Chemical potential; Coexistence curve; Compressibility; Critical point; Oxygen; 12185. **SP305-3.**
- PVT; density; Ethane; Vapor pressure; *J. Res. 80A No. 1, 35-39* (1976). **SP305-8.**
- P,V,T; phase boundary; Saturation density; Vapor pressure; Density; Liquids; Nitrogen; 12186. **SP305-3.**
- PVT; Relaxation; Density; Dilatometer; Entropy; Glass transition; Glass; Liquid; Polymer; Poly(vinyl acetate); *J.78A No. 3, 331-353* (1974). **SP305-6.**
- PVT; Relaxation; Viscosity; Density; Entropy; Free volume; Glasses; Glass transition; Liquid; Polymer; Poly(vinyl acetate); 14777. **SP305-7.**
- P-V-T; Saturation densities; Critical density; Critical point; Critical temperature; Oxygen; Properties of fluids; 11787. **SP305-2.**
- P-V-T; Saturation densities; Critical density; Critical point; Critical temperature; Oxygen; Properties of fluids; 11523. **SP305-2.**
- PVT; Saturation properties; Scaling laws; Critical point; Equation of state; Hydrogen; Index of refraction; *NBSIR 74-357*. **SP305-6.**
- P-V-T; Specific heat; Speed of sound; Vapor pressure; Virial coefficient; Critically evaluated data; Critical point; Enthalpy; Entropy; Equation of state; Helium; Internal energy; *J. Phys. Chem. Ref. Data 2, No. 4, 923-1042* (1973). **SP305-6.**
- P-V-T; Specific heat; Vapor pressure; Virial coefficient; Argon; Compressibility factor; Enthalpy; Entropy; Equation of state; Internal energy; Joule-Thomson coefficient; *NBSIR-74-357*. **SP305-1.**
- PVT; Statistical; Burnett; Gas; Model dependency; Nonlinear; 11932. **SP305-3.**
- PVT; Statistical analysis; Virial coefficients; Density expansion; Gas thermometry; Power series coefficients; 10601. **SP305-1.**
- p-V-T; Statistical weighting; Thermodynamic properties; Constraints; Equation of state; Fluid; Least squares; Parameter estimation; 15132. **SP305-7.**
- PVT; Thermodynamic; Liquid; Configurational; Glass; Glass transition; Hole theory; Polymer; Poly(vinyl acetate); 14850. **SP305-7.**
- PVT apparatus; PVT method; Cryostat; Fabrication techniques; Fluorine, materials compatibility; 11930. **SP305-3.**
- P-V-T data; Iron; Lattice structure; Martensitic transformation; Molecular dynamics; Phase diagram; 12426. **SP305-4.**
- PVT data; PVT surface; Temperature scale; Thermodynamic consistency; Ammonia; Heat capacity; Ideal gas; 14678. **SP305-6.**
- PVT data; Second virial coefficient; Third virial coefficient; Isochores; Isotherms; Joule-Thomson inversion curve; Liquid densities along melting line; *J.74A No. 6, 747-760* (1970). **SP305-2.**
- PVT data; Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; *TN653*. **SP305-6.**
- PVT data; Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal

- energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; *NBSIR 73-342. SP305-6.*
- PVT measurements; Saturation densities; Specific heats; Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; *TN392. (Revised September 1973). SP305-5.*
- PVT measurements; Saturation densities; Specific heats; Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; *TN392. SP305-2.*
- PVT method; Cryostat; Fabrication techniques; Fluorine; materials compatibility; PVT apparatus; *11930. SP305-3.*
- PVT surface; Temperature scale; Thermodynamic consistency; Ammonia; Heat capacity; Ideal gas; PVT data; *14678. SP305-6.*
- PVT-relations; Thermodynamic properties; Equation of state; Hydrogen; Parahydrogen; *J71A3-452, 203-218 (1967). SP305.*
- Pycnometer; Density; Liquids; *9360. SP305.*
- Pycnometer; Reaction-hot pressing; Rhombohedral boron; X-ray diffraction; Amorphous boron; Anhydrous boric acid; Boric oxide; Boron carbide structure type; Boron suboxide; Crystal structure; Decompose; Electron microbeam probe; *SP364, pp. 605-611. SP305-4.*
- Pygmy; Pygmy resonance; Radiative tails; Resonance weak coupling;  $^{12}\text{C}$ ,  $^{13}\text{C}$ ; Continuum spectra; Efficiencies; Fine structure; Giant resonance; Isospin splitting; *19299. SP305-4.*
- Pygmy resonance; Radiative tails; Resonance weak coupling;  $^{12}\text{C}$ ,  $^{13}\text{C}$ ; Continuum spectra; Efficiencies; Fine structure; Giant resonance; Isospin splitting; Pygmy; *19299. SP305-4.*
- Pyranoid ring; Spectroscopy; 1,2,4,6-di-O-benzylidene- $\alpha$ -D-glucopyranosides; Conformations; Coupling constants; Iterative analysis; *m*-dioxane ring; Proton magnetic resonance; *11874. SP305-3.*
- Pyranose-furanose interconversions; Sugars in solution; Acid-base catalysis in  $\text{D}_2\text{O}$ ; Deuterium isotope effects; D-fructose; D-glucose; Isotope effects; Mechanism of mutarotation; Mutarotation; *J71A2-445, 137-148 (1967). SP305.*
- Pyrazine; Singlet emission; Spectrum of pyrazine in benzene; Triplet emission; Vibration spectrum; Fluorescence; Phosphorescence; *13092. SP305-5.*
- Pyrazine ligand; X-ray structure determination; Coordination complex; Inorganic polymer; *12054. SP305-3.*
- Pyrazole; Rotational constants; Dipole moment; Gas phase pyrazole; Microwave spectrum; *9846. SP305-1.*
- Pyrazole; Stark effect; Structure; Tautomerism; Dipole moment; Microwave spectrum; *10475. SP305-1.*
- Pyrazole; Structure; X-ray; Betaine form; *10227. SP305-1.*
- Pyrazole; Trigonal symmetry; X-ray structure determination; Inorganic coordination complex; Octahedral coordination; *11826. SP305-3.*
- Pyrazole complexes; Tetragonal molecular symmetry; Crystal spectra; *12706. SP305-4.*
- Pyrene; Reaction; 1,1'-bipyrene; 1,6- and 1,8-pyrenediones; Aromatic; Hydrocarbons; Particulates; Photochemical; Photooxidation; Polycyclic; *9703. SP305-1.*
- Pyrene radical; Quinones; Reaction mechanism; Sodium metaperiodate; Aprotic solvents; Aromatic hydrocarbons; Malonic acid; Periodic acid; *J72A No. 4, 341-350 (1968). SP305-1.*
- Pyrheliometer; World Meteorological Organization; International Pyrheliometric Scale; Irradiance; *13555. SP305-5.*
- Pyridazine derivatives; *x*-lylo-trihydroxycyclohexenediolic acid preparation of bis-phenylhydrazon of; *x*-lylo-4,5,6-trihydroxy-2-oxo-1,3-bis(phenylhydrazono)cyclohexane; 4-oxo-1-phenyl-5-phenylazo-3-pyridazine-carboxaldehyde derivatives; *9803. SP305-1.*
- Pyridine; Acetone; D-erythro-pentulose; D-threo-pentulose; Isomerization; Partition; *11463. SP305-2.*
- Pyridine N-oxide; Structure; X-ray; Bromine; Copper; Crystal structure; *12661. SP305-4.*
- Pyridine N-oxide cupric bromide dimer; Crystal structure; *11762. SP305-2.*
- Pyroceram; Surface damage; Acoustic emission; Glass; Lucalox; *SP348, pp. 341-342. SP305-4.*
- Pyrochlore;  $\text{BiRhO}_3$ ; Defect structures; Perovskite; Pressure; synthesis; *SP364, pp. 219-226. SP305-4.*
- Pyrochlore structure; Semiconductivity; Metallic conductivity; *SP364, pp. 227-232. SP305-4.*
- Pyroelectric; Autocorrelation; Detector; Pulse; *14741. SP305-4.*
- Pyroelectric; Detector; Infrared; Polyvinylfluoride; *12706. SP305-4.*
- Pyroelectric; Detector; Infrared; Polymer; Polyvinyl fluoride; Polyvinylidene fluoride; *14349. SP305-6.*
- Pyroelectric; Dipoles; Electret; Glass transition; Polyvinylidene fluoride; *14174. SP305-6.*
- Pyroelectric; Dipoles; Electret; Glass; Piezoelectric; Polarization; Polyvinyl chloride; *16277. SP305-8.*
- Pyroelectric; Electret; Dipoles; Glass; Piezoelectric; Polarization; Polyvinyl chloride; *15320. SP305-7.*
- Pyroelectric; Electret; Piezoelectric; Polymer electrode; Poly(vinyl chloride); *13725. SP305-5.*
- Pyroelectric; Laser; Power; *TN665. SP305-7.*
- Pyroelectric; Radiometer; Electrically calibrated; *15305. SP305-7.*
- Pyroelectric; Radiometer; Transducers; Electrets; Hydrophobic; Piezoelectric; Polymers; Polyvinylidene fluoride; *NBSIR 760. SP305-7.*
- Pyroelectric; Radiometers; Ultraviolet; Calibration; Detector; Infrared; *13752. SP305-5.*
- Pyroelectric; Radiometry; Black coatings; Detectors; Carbon black; *14230. SP305-6.*
- Pyroelectric; Radiometry; Detector; *TN678. SP305-8.*
- Pyroelectric; Room temperature detector; Infrared; *12706. SP305-4.*
- Pyroelectric; Spectral response; Detector; Infrared; *16305. SP305-8.*
- Pyroelectric coefficient; Pyroelectricity; Piezoelectricity; Polyvinyl fluoride; Polyvinylidene fluoride; *13546. SP305-6.*
- Pyroelectric coefficient; Thermometry; Volume resistivity; Calorimetry; Cryogenics; Dielectric constant; Ferroelectric; ceramic; *11037. SP305-2.*
- Pyroelectric detector; Radiometer; Radiometry; AC power measurements; Electrically calibrated radiometer; *13924. SP305-6.*
- Pyroelectric detectors; Pyroelectricity; Self-calibrated detectors; Gold-blacks; Optical radiation detectors; Organic polymers; *14520. SP305-6.*
- Pyroelectric detectors; Reflectance; Directional-hemispherical; Polyvinyl fluoride; *14721. SP305-7.*
- Pyroelectric detectors; Uniform polarization; Infrared detector; PVF<sub>2</sub>; *14146. SP305-6.*
- Pyroelectric effect; Relative spectral response; Ultraviolet detector; Heat detector; Optical radiation sensor; Polymer; Polyvinyl fluoride; Polyvinylidene fluoride; *14721. SP305-7.*
- Pyroelectricity; Detector circuits; Power measurement; Circuit; *14733. SP305-7.*
- Pyroelectricity; Electret; Piezoelectricity; Polarization electricity; Polymer; *16284. SP305-8.*
- Pyroelectricity; Infrared; Piezoelectricity; Polymers; Polyvinyl fluoride; *12352. SP305-3.*
- Pyroelectricity; Piezoelectricity; Poling; Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric coefficient; *14721. SP305-5.*



- roelectricity; Self-calibrated detectors; Detectors; Gold-placks; Optical radiation detectors; Optics; Polymers; Pyroelectric detectors; 14520. **SP305-6.**
- roelectricity; Spontaneous polarization; Barium titanate; Ceramics; Ferroelectricity; Phase transitions; 11593. **SP305-2.**
- roelectricity; Tendon; Bone; Collagen; Hydroxyapatite; Piezoelectricity; 9470. **SP305.**
- roelectricity; Polyvinylfluoride; Polyvinylidene fluoride; 14760. **SP305-7.**
- roelectricity; Radiometers; IR detectors; Polyvinylfluoride; 4531. **SP305-6.**
- roelectricity; Radiometers; Optical radiation; 15830. **SP305-8.**
- roelectricity; Radiometry; Infrared detectors; Polymers; 16471. **SP305-8.**
- rogens; Sweating; Temperature, central body; Thermocouple disconnect; Thermoelectric thermometry; Thermometer; Vasodilation; Warm sensitive neurons; Anesthesiology; Brain temperature; Carotid artery; Clinical medicine; Cold stress diver; 13631. **SP305-5.**
- rolysis; Aircraft fires; Fire hazard; Flash fire; Polyurethane; *NBSIR* 75-757. **SP305-8.**
- rolysis; Anionic polystyrene; Molecular weight distributions; Polymers; Polystyrene degradation; 14565. **SP305-6.**
- rolysis; Burning; Hydrocarbons; Organic materials; Oxidation; Polymers; *SP357*. **SP305-4.**
- rolysis; Combustion; Data base; Energy conservation; Estimation schemes; Kinetics; Modeling; Oxidation; *NBSIR* 75-910. **SP305-8.**
- rolysis; Poly  $\alpha$ -methylstyrene, zip-length; Polymers; 14632. **SP305-6.**
- rolysis; Pyrophosphate; Stoichiometry; Tricalcium phosphate; Whitlockite; Ca/P ratio; 12183. **SP305-3.**
- rolysis; Pyrophosphate; Stoichiometry; Whitlockite;  $\beta$ -tricalcium; Calcification; Calcium; Dicalcium phosphate; Octacalcium phosphate; 15996. **SP305-8.**
- rolysis; Quadrupole structure; Rotational transitions; Transient species; Methyleneimine; Microwave spectrum; 13066. **SP305-5.**
- rolysis; Radiant heat; Thermal inertia; ASTM Standard E119; Building construction; Charring; Combustion; Fire endurance; Fire test; Flame emissivity; Heat transfer; *NBS-GCR-75-50*. **SP305-8.**
- rolysis; Radiant heat; Thermal sensitivity index; Calorimeter; Combustion; Fire test; Heat release; Limiting thermal index; *NBS-GCR-76-54*. **SP305-8.**
- rolysis; Ramie; Rayon; Sulfur; Cellulosic fibers; Combustion; Cotton fibers; Flame retardant treatments; Phosphorous acids; *NBS-GCR-73-4*. **SP305-8.**
- rolysis; Random component; Thermal decomposition; Volatilization; High pressure; Initiation rate; Poly-3,3,3-trifluoropropene; 10092. **SP305-1.**
- rolysis; Rapid heating; Surface pyrolysis; Surface temperature measurement; Thermal degradation; Combustion; Flammability; Kinetics; Polymer burning; *SP357*, pp. 185-192. **SP305-4.**
- rolysis; Rate constants; Unimolecular theory; Acetylene; Dissociation; Elementary reactions; Ethane; Ethylene; Hydrocarbons; Kinetics; Mechanism; Methane; Olefins; Paraffins; Propylene; *SP357*, pp. 17-25. **SP305-4.**
- rolysis; Reaction rates; Temperature; TGA; Thermal analysis; Accessibility; Arrhenius plots; Burned celluloses; Celluloses; Combustion; Crystallinity; Decomposition; DP; DTA; Flame-retardant;  $\text{KHC}_2\text{O}_4$ ; Kinetics; Moisture; Oxygen indexes; 13129. **SP305-5.**
- rolysis; Reactive gas generator; Sulfur dioxide; Acetaldehyde; Acrolein; Formaldehyde; Gas chromatography; Hydrogen chloride; Hydrogen cyanide; Pollution; *NBSIR* 76-1000. **SP305-8.**
- rolysis; Shock tubes; *t*-butyl radicals; 2,2,3-trimethylbutane; Bond energies; Decomposition; Hexamethylethane; Isopropyl radical; Methyl radicals; Neopentane; 10106. **SP305-1.**
- rolysis; Silicon difluoride; Base catalyzed decomposition; Fluorodisilane; Pentafluorodisilane; Physical properties; 16014. **SP305-8.**
- rolysis; Single pulse shock tube; 4-methylpentene-1; Allene; Bond energy; Comparative rate; Gas phase; Heats of formation; Kinetics; Molecular reaction; Propynyl; 12832. **SP305-4.**
- rolysis; Single pulse shock tube; 3,3-dimethylpentane; 3,4-dimethylpentene-1; 2,3,3-trimethylpentane; Bond energy; Decomposition; Free radicals; Heat of formation; Hydrocarbon; Isobutylbenzene; Pre-exponential factor; 11169. **SP305-2.**
- rolysis; Smoke; Smoke density; Visual obscuration; Aerosol; Combustion; Fire hazard; 10353. **SP305-1.**
- rolysis; Smoke; Specific optical density; Toxic gases; Toxicity; Combustion; Polymer; *SP411*, pp. 105-124. **SP305-6.**
- rolysis; Smoke; Thermal decomposition; HCl; He-Ne laser; Poly(vinyl chloride); 13650. **SP305-5.**
- rolysis;  $\text{SO}_2$ ; Standards; Pollution; 14332. **SP305-6.**
- rolysis;  $\text{SO}_3$ ; Trimethylene sulfone; 3-methyl sulfolane; 15952. **SP305-8.**
- rolysis; Stripping; Chain scission; Crosslinking; Polymers; *SP357*, pp. 47-60. **SP305-4.**
- rolysis; *s*-trithiane; Thioformaldehyde; Ultraviolet photolysis; Vacuum ultraviolet photolysis;  $\text{CH}_3\text{S}$ ;  $\text{CH}_3\text{SH}$ ; Dimethylsulfide; Infrared spectrum; Matrix isolation; 15334. **SP305-7.**
- rolysis; TGA; Thermal analysis; Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; 13926. **SP305-6.**
- rolysis; TGA; Thermal analysis; Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; *SP338*, pp. 137-150. **SP305-2.**
- rolysis; TGA; Thermal analysis; Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; 15292. **SP305-7.**
- rolysis; Theory of free radical degradation; Computer calculation; Intermolecular transfer; Molecular weights; Polystyrene; 10120. **SP305-1.**
- rolysis; Thermal decomposition; Thermogravimetry; Thermolysis; Stability of polymers; Degradation; Nonisothermal kinetics; Polymers; *J70A6-422*, 487-523 (1966). **SP305.**
- rolysis; Thermal decomposition; Thermal volatilization; 1,2-dihydronaphthalene; Degradation; Polymerization; 9218. **SP305.**
- rolysis; Thermal stability; Thermogravimetric analysis; Wood pulp; Aluminum; Calcium; Carboxylic acid; Cellulose; Differential thermal analysis; Hemicellulose; Ion exchange; PH; 13109. **SP305-5.**
- rolysis; Thermolysis; Anionic polystyrene; Molecular weight distributions; Molecular weights; Thermal polystyrene; Polymers; Polystyrene degradation; *J77A No. 1*, 157-170 (1973). **SP305-5.**
- rolysis; 2,3,5,6-tetrafluoro-4-trifluoromethylphenol; 1-*t*-butoxy-2,3,5,6-tetrafluoro-4-trifluoromethylbenzene; Perfluoro-*p*-quinonemethide; Polymerization; Poly-*p*-oxyperfluorobenzene; *J71A1-434*, 33-41 (1967). **SP305.**
- rolysis of hydrocarbons; Radical mechanisms; Unimolecular decomposition; Decomposition; Kinetics of decomposition; Molecular mechanisms; *SP357*, pp. 7-15. **SP305-4.**
- rolysis of hydrocarbons; Rates of reaction in liquids and gases; Reaction equilibria in liquids and gases; Degradation of polymers in melts; Diffusion-controlled reactions between macroradicals; *SP357*, pp. 33-43. **SP305-4.**
- rolysis reactions; Rotational spectrum; Structure; Vinylamine; Dipole moment; Ethylamine; 15258. **SP305-7.**

- Pyrolysis-gas chromatography; Textiles; Thermal analysis; Calorimetry; Cellulose; Flames; Flammable gases; Nylon; Oxidation reactions; Oxygen index; Phosphorus; Polyester; Polymer substrates; *SP411*, pp. 37-49. **SP305-6.**
- Pyrolysis-gas chromatography of polymers; Pyrolytic techniques; Chromatographic analysis of degradation products; Polymer characterization; Polymer identification; *11798*. **SP305-3.**
- Pyrolytic decomposition; Burning of polymers; Combustion; Ignition; Polymer decomposition; *14596*. **SP305-6.**
- Pyrolytic graphite; Chemical anisotropy; Chemisorption; Oxidation; *J74A No. 3*, 325-330 (1970). **SP305-2.**
- Pyrolytic graphite; magnetic susceptibility; orientation function; preferred orientation; *14029*. **SP305-6.**
- Pyrolytic graphite; Scanning electron microscope; Circular holes; Face versus edge oxidation; Impurity effect on oxidation; Layers; *13170*. **SP305-5.**
- Pyrolytic graphite; Single crystal graphite; Anisotropy; Magnetic susceptibility; *14038*. **SP305-6.**
- Pyrolytic graphite; Transition metal borides; Copper; Creep; Crystal growth; Diffusion; Enthalpy; Evaporation; Fracture; Glass band structure; High temperature materials; Mass transport; Materials properties; Mechanical relaxation; Oxides; Polymers; *TN494*. **SP305-1.**
- Pyrolytic techniques; Chromatographic analysis of degradation products; Polymer characterization; Polymer identification; Pyrolysis-gas chromatography of polymers; *11798*. **SP305-3.**
- Pyrolyzed octacalcium phosphate; Infrared spectra of calcium phosphate; *9720*. **SP305-1.**
- Pyrometer, photoelectric, NBS; Calibration, NBS photoelectric pyrometer of 1961; International Practical Temperature Scale; NBS photoelectric pyrometer; Photoelectric pyrometer, NBS; *9882*. **SP305-1.**
- Pyrometry; Radiance; Rayleigh; Stefan; Temperature; Wien; Boltzmann; Draper; Jeans; Kirchhoff; Optical; Planck; *9788*. **SP305-1.**
- Pyrometry; Radiance; Standards; Graphite arc; High-speed measurements; High temperatures; *12201*. **SP305-3.**
- Pyrometry; Radiance temperature; Hafnium; High-speed measurement; High temperature; Melting point; *J. Res. 80A No. 4*, 659-662 (1976). **SP305-8.**
- Pyrometry; Radiance temperature; Tantalum; Emittance; High-speed measurements; High temperature; Melting point; *16426*. **SP305-8.**
- Pyrometry; Radiation; Temperature measurement; High-speed measurements; High temperature; *13573*. **SP305-5.**
- Pyrometry; Radiation pyrometry; Temperature measurement; Thermistors; Thermocouple; Thermometry; Fluidic thermometers; *SP373*. **SP305-4.**
- Pyrometry; Radiation thermometry; Temperature measurement; Optical pyrometry; *9857*. **SP305-1.**
- Pyrometry; Radiometry; Relative transmittance factor; Dichroic polarizers; Optics; *J74C Nos. 1 and 2*, 9-13 (1970). **SP305-2.**
- Pyrometry; Reference vaporization; Temperature consistency; Thermodynamic parameters (estimated); Beryllia hydrates (gases); Contaminants; Gold; *J76A No. 5*, 511-515 (1972). **SP305-4.**
- Pyrometry; Secondary reference points; Temperature measurement; High temperature chemistry; International temperature scale; Melting points; *10116*. **SP305-1.**
- Pyrometry; Source; Temperature; Tungsten; *13576*. **SP305-5.**
- Pyrometry; Standard; Temperature; Graphite arc; *9346*. **SP305.**
- Pyrometry; Standards; Temperature; International temperature scale; *13590*. **SP305-5.**
- Pyrophosphate; Stoichiometry; Tricalcium phosphate; Whitlockite; Ca/P ratio; Pyrolysis; *12183*. **SP305-3.**
- Pyrophosphate; Stoichiometry; Whitlockite;  $\beta$ -tricalcium; Calcification; Calcium; Dicalcium phosphate; Octacalcium phosphate; Pyrolysis; *15996*. **SP305-8.**
- Pyrophosphate; Temkin; Wax-bound electrode; Amperometry; Cyclic voltammetry; Electroosorption; Langmuir; Lead dioxide; *SP455*, pp. 183-189 (Nov. 1976). **SP305-8.**
- Pyrophosphate formation; Caries mechanism; Dicalcium phosphate dihydrate; Enamel mineral solubility; *15162*. **SP305-7.**
- Pyroxene; Rocks; Apollo 12; Crystallization; Mineralogy; Moon; Petrography; *14641*. **SP305-6.**
- PZT 65/35; Thallium chloride; Very low temperatures; Barium titanate; Dielectric properties; Ferroelectrics; KDP; *16491*. **SP305-8.**
- $P_2O_5-Nb_2O_5$ ; Phase diagram;  $ReO_3$  type compounds  $Nb_2O_5-P_2O_5$ ; NbPO;  $Nb_5P_4O_{15}$ ;  $Nb_5PO_{15}$ ;  $Nb_{14}P_2O_{115}$ ; *11903*. **SP305-3.**

avity; Two-ports; Automatic network analyzer; 15867. SP305-8.

Measurement; Reflection resonators; Transmission resonators; Automatic Q measurement; Frequency-lock method; 1309. SP305-5.

ots; Reaction cross section; Strong interactions; Sum rules; Super-reaction; U-spin equalities; Octet symmetry breaking; 1338. SP305-1.

ariate; Analysis of variance; Calibration; Correlation coefficient; Degrees of freedom; Distribution; Fixed variable; Non-central beta variable; Noncentrality; J.72B No. 1, 33-35 (1968). SP305-1.

ot inequalities; SU(3) reactions; High energy differences; 1339. SP305-1.

oint; Trains; Configurations; Excluded volume effect; Polymers; Polymer adsorption; Surface layer; 12240. SP305-3.

itched; Surface damage; Chemically strengthened glass; Glass damage; Glass lasers; Laser damage; SP372, pp. 40-45. SP305-4.

itched ruby laser; Qualitative; Spark excitation; Spectrochemical; Analysis; Emission; Emission spectra; High energy; High power; Illuminating system; Laser probe; Laser vaporization; 10004. SP305-1.

itched ruby laser; Quantitative; Spark excitation; Spectral intensity; Spectrochemical analysis; High energy; High power; Laser probe; Laser vaporization; Photographic emulsion; Pit volume; 10005. SP305-1.

itching; Vibrational relaxation; Fluorescence; Infrared; Laser; Nitrous oxide; 11858. SP305-3.

AD scheme; Electronic density of states; Histogram presentations; SP323, p. 17. SP305-4.

AD scheme; Reliability of smoothing procedures; Aluminum; Electronic density of states; Free electron parabola; SP323, pp. 795-800. SP305-4.

dratic form; Random variable; Singular value decomposition; Eigenvalues; Independence; J. Res. 80B No. 3, 333-335 (1976). SP305-8.

dratic forms; Spectrum; D-stable matrix; Positive diagonal matrix; 12522. SP305-7.

dratic irrational; Continued cotangent; Continued fraction; Res. 80B No. 2, 285-290 (1976). SP305-8.

dratic residues; Diophantine equation; Infinite descent; 79B Nos. 1 and 2, 41-44 (1975). SP305-7.

drature; Algebraic numbers; Approximation; Diophantine approximation; Exponential sums; Functions of several variables; Geometry of numbers; Good lattice points; Numerical integration; Optimal coefficients; Periodicity; 13128. SP305-5.

drature; Analysis; Integration; Mathematics; Monte-Carlo; Multiple integration; Numerical analysis; Numerical integration; 9321. SP305.

drature; Analysis; Integration; Mathematics; Monte-Carlo; Multiple integration; Numerical analysis; Numerical integration; 10152. SP305-1.

drature; Analytical functions; Approximation; Gaussian quadrature; Integration; Optimal quadrature; J.75B Nos. 1 and 2, 85-88 (1971). SP305-3.

drature; Approximation; Banach-Steinhaus Theorem; Fourier Series; Multiple integrals; Number theory; Numerical analysis; Periodic functions; 10967. SP305-2.

drature; Best integration formulas; Diophantine approximation; Gaussian quadrature; Integration; Monte Carlo; Multiple integration; Multiple quadrature; Numerical analysis; Numerical integration; Optimal formulas; 13986. SP305-6.

drature; Best quadrature; Error functionals; Minimum-norm formulas; Numerical analysis; Numerical integration; Optimal quadrature; 12599. SP305-4.

Quadrature; Computer program; Fourier transform NMR; Homonuclear lock; Phase adjustment; Phase correction algorithm; 15970. SP305-8.

Quadrature; Computing; Integration; Numerical analysis; 10355. SP305-1.

Quadrature; Continued fraction; Diophantine approximation; Integration; Multiple integration; Number theory; Numerical analysis; Numerical integration; Periodic (functions); 11584. SP305-2.

Quadrature; Integral; Integration; Modified Monte Carlo; Monte Carlo; Multiple integral; Numerical analysis; Numerical integration; 10751. SP305-1.

Quadrature; Integration; Gaussian; Mono. 98. SP305.

Quadrature; Random; Degree of precision; Hadamard matrices; Integration; Monte Carlo; Multiple integrals; Numerical integration; Numerical methods; 11583. SP305-2.

Quadrature; Random numbers; Sequences; Uniform distribution; Equidistribution; Numerical analysis; Pseudo-random; 11629. SP305-2.

Quadrature; Reflection groups; Symmetric groups; Symmetries; Hilbert basis; Integration; Invariants; Multiple integrals; Numerical integration; 13857. SP305-6.

Quadrature; Reimann integral; Bounded variation; Improper integral; Monotonicity; Numerical integration; 13858. SP305-6.

Quadrature; Riemann integral; Singularities; Improper integrals; Integrals; Numerical analysis; Numerical integration; Numerical quadrature; 15180. SP305-7.

Quadrature; Riemann integrals; Improper integrals; Integration; Numerical integration; 14206. SP305-6.

Quadrature; Simple quadratures; Approximation theory; Conditional convergence; Infinite series; Integration; 13181. SP305-5.

Quadrature; Stable distribution; Sums of independent random variables; Tables; Truncation; Accuracy; Approximations; Asymptotic expansion; Cauchy distribution; Characteristic function; Closed forms; Contour; J.77B Nos. 3 and 4, 143-198 (1973). SP305-5.

Quadrature; Three-voltmeter method; Wattmeter; Opamp; Phase-sensitive detector; Power-factor; 12848. SP305-4.

Quadrature; Three-voltmeter method; Wattmeter; Phase-sensitive detector; Power-factor; 13047. SP305-4.

Quadrature bridge; AC direct-reading ratio set; AC measurements; Bridge; Coaxial chokes; Defining transformers; Equal power bridge; Four-pair standards; Frequency-dependent bridge; J.74C Nos. 3 and 4, 63-78 (1970). SP305-2.

Quadrature deviation; Ratio calibration; Transformer; Two-stage voltage transformer; Voltage divider; Voltage ratio; Calibration; In-phase deviation; Inductive voltage divider; Measurements; J.72C No. 1, 49-59 (1968). SP305-1.

Quadrupole spectrum; Rotation-vibration interaction; Vibrational matrix elements; Hydrogen; Intensity; 9805. SP305-1.

Quadrupole interactions; Spin echoes; KI; NiAl; Nuclear magnetic resonance; Pulsed nuclear resonance; 11475. SP305-2.

Quadrupole; Resonance; Spectroscopy; Transistor; Zeeman; Current; Modulator; Nuclear; Pulse; 12350. SP305-3.

Quadrupole; Single crystal; ND<sub>2</sub>Cl; N.m.r.; 10672. SP305-1.

Quadrupole; Spectra; Bond distances; High temperature; Microwave; RbOH; Rotational constants; 11217. SP305-2.

Quadrupole coupling; Rutile; Titanium dioxide; Copper; EPR; g-factors; Hyperfine interaction; 11804. SP305-3.

Quadrupole coupling; Stark effect; Symmetric top; Trifluoramine; Dipole moment; Hyperfine structure; Microwave spectrum; 13426. SP305-5.

Quadrupole coupling constant; Spin-spin coupling constant; Boron-11; H<sup>11</sup>B(OCd<sub>3</sub>)<sub>2</sub>; Hydride; Hydrogen; Liquid; Proton; 9588. SP305-1.

Quadrupole coupling constant structure; Dipole moment; Microwave; Perchloryl fluoride; 9204. SP305.

- Quadrupole coupling constants; Rotational constants; Rotational spectra; Centrifugal distortion constants;  $D_2^{17O}$ ;  $D_2^{18O}$ ; 13654. **SP305-5.**
- Quadrupole coupling constants; Rotational constants; Difluoroborane; Dipole moment; Microwave spectra; Molecular structure; 10486. **SP305-1.**
- Quadrupole coupling constants; Rotational constant; Spectral lines; Barrier height; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; Hindered rotation; Internal rotation; Microwave spectra; Molecular spectra; *Monogr. 70, Volume III. SP305-1.*
- Quadrupole coupling constants; Rotational constant; Spectral lines; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; L-doubling; Microwave spectra; Molecular spectra; Polyatomic molecules; *Monogr. 70, Volume IV. SP305-1.*
- Quadrupole coupling constants; Structure; Dipole moment; Microwave spectra; Nitrous acid; 9647. **SP305-1.**
- Quadrupole hyperfine interactions; Saturated absorption spectroscopy; High resolution spectroscopy; Methyl halides; Optical heterodyne spectroscopy; 16407. **SP305-8.**
- Quadrupole interactions; Spin waves; Anisotropy; Electric field gradient;  $Fe_2B$ ;  $Fe_2Zr$ ; Ferromagnetism; Hyperfine field; Nuclear magnetic resonance; 11181. **SP305-2.**
- Quadrupole moment; CO; Hyperpolarizability; Multiconfiguration SCF;  $N_2$ ;  $NO^+$ ; 14317. **SP305-6.**
- Quadrupole moment; Configuration interaction; Dipole moment; Dissociation energy; Electronic structure; HF; 14177. **SP305-6.**
- Quadrupole moment; Quartet structure; Core polarization; Electromagnetic transitions; Nuclear spectroscopy; Nuclear structure; 13340. **SP305-5.**
- Quadrupole moment;  $q$ -values; Radiation; Absorption cross section; Magnetic moment; Mass defect; Nuclides; 13180. **SP305-5.**
- Quadrupole moment; Second virial coefficients; Viscosity coefficient; Nonspherical interactions; Polarizability; M-6-8 potential; 13229. **SP305-5.**
- Quadrupole moment; Spectroscopic constants; *Ab initio* electronic calculation; Dipole moment; Dissociation energy; Electron affinity; Energy; Field gradient; Magnetic constants; Molecular electronic structure; Orbital energy; Polarizability; *TN438. SP305-5.*
- Quadrupole moment; Statistical mechanics; Clausius-Mossotti function; Dielectric virial coefficients; M-6-8 potential; Polarizability; Polyatomic gases; Pressure second virial coefficients; 13593. **SP305-5.**
- Quadrupole moments, vibrator nuclei,  $^{52}Cr$ ,  $^{110}Pd$ ,  $^{114}Cd$ ,  $^{116}Sn$ ; Anharmonic vibrators; Electron scattering; Form factors; 13214. **SP305-5.**
- Quadrupole phonons; Vibrational nuclei; Anharmonicities; Branching ratio; Charge distribution; Electron scattering; 16507. **SP305-8.**
- Quadrupole resonance; Deformed nuclei; Giant resonance; Nuclear hydrodynamics; Octupole deformation; Photon absorption; 9296. **SP305.**
- Quadrupole splitting; Anisotropic molecular motion; Broadline NMR;  $D_2O$  in collagen;  $H_2O$  in collagen; Proton exchange; 11283. **SP305-2.**
- Quadrupole splitting; Centrifugal distortion; Hyperfine structure; Inversion doublet; Molecular beam;  $NH_3$ ; 13262. **SP305-5.**
- Quadrupole splitting; Interpretation of chemical shift; Iron coordination chemistry; Mössbauer spectroscopy; 10791. **SP305-1.**
- Quadrupole splitting; Random error; Systematic error; Sodium nitroprusside; Iron compounds; Optical Mössbauer spectrometer; Tandem Mössbauer spectrometer; Velocity calibration; Mössbauer; Spectroscopy; Standard; Differential chemical shift; *M260-13. SP305.*
- Quadrupole splitting; Single line source; Chemical shifts; Electronic configurations; Internal magnetic fields; Magnetic fields; Magnetic moment ratio; Nickel Mössbauer spectroscopy; Nuclear hyperfine interactions; 11163. **SP305-2.**
- Quadrupole splitting; Sodium nitroprusside; Standardization; Crystal structure; Differential chemical shift; Mössbauer spectroscopy; 9238. **SP305.**
- Quadrupole splitting; Stannic oxide; High pressure; Line broadening; Mössbauer spectroscopy; 9206. **SP305.**
- Quadrupole splitting; Structural analysis; Chemical shift; Magnetic hyperfine splitting; Mössbauer spectroscopy; Mössbauer spectrum parameters; 10435. **SP305-1.**
- Quadrupole splitting; Temperature dependence; Diffusion; Doping; Fe-57; Iron-doped; Lattice distortion; Mössbauer spectroscopy; 15332. **SP305-7.**
- Quadrupole splittings; Rotational transitions; Weighted fit; trophical interest; Centrifugal distortion; Formamide; Microwave spectrum; 13218. **SP305-5.**
- Quadrupole structure; Rotational transitions; Transient spectra; Methyleneimine; Microwave spectrum; Pyrolysis; 1360. **SP305-5.**
- Quadrupole structure; Rotational transitions; Transient spectra; Boron monofluoride; Dipole moment; Discharge; Microwave spectrum; 14382. **SP305-6.**
- Quadrupole transitions; Spin hamiltonian; Transition probabilities; Ultrasonic (paramagnetic) resonance; Ultrasonic transition probabilities; Wave functions of  $Fe^{++}$ ; Energy level  $Fe^{++}$ ; *J.73A No. 2, 241-268 (1969). SP305-1.*
- Quadrupole transitions; Spin Hamiltonian; Transition probabilities; Ultrasonic (paramagnetic) resonance; Ultrasonic transition probabilities; Wave functions of  $Gd^{++}$ ; Corundum Energy levels of  $Gd^{++}$  in  $Al_2O_3$ ; *J. 75A No. 5, 493 (1971). SP305-3.*
- Quadrupole-field gradient interaction; Rayon fibers; Broad NMR;  $D_2O$ ; Dipole-dipole interaction;  $H_2O$ ; Oriented wave; 10534. **SP305-1.**
- Quaiaacol; synthesis; vanillyl-mandelic acid; VMA; alkaline denaturation; glyoxylic acid; *J.78A No. 3, 411-412 (1974). SP305-1.*
- Qualified products lists; testing; acceptance testing; compliance testing; laboratory evaluation; performance testing; *N. 75-719. SP305-8.*
- Qualified Products List; tieline; condensate return; epoxy fiberglass reinforced plastic; filament-wound; insulated molded; morpholine; prefabricated steel conduit; *BSS66 88-101. SP305-7.*
- Qualitative; Spark excitation; Spectrochemical; Analysis; Emission; Emission spectra; High energy; High power; Illumination system; Laser probe; Laser vaporization; Q-switched laser; 10004. **SP305-1.**
- Qualitative accuracy; quality control; quantitative accuracy; reference materials; sampling; concentration; detectors; traction; gas chromatography; isolation and clean-up; spectrometry; organic trace analysis; *SP422, pp. 9-34 (1976). SP305-8.*
- Qualitative analysis; quantitative analysis; Dipole moment; Microwave spectroscopy; Molecular rotation; Molecular structure; 13536. **SP305-5.**
- Qualitative analysis; quantitative analysis; specimen preparation; x rays; electron probe microanalyzer; microanalysis; 14897. **SP305-7.**
- Qualitative analysis; quantitative analysis; rotational spectra applications; chemical analysis; microwave; 15261. **SP305-7.**
- Qualitative analysis; quantitative analysis; rotational spectra applications; chemical analysis; microwave; 15625. **SP305-7.**
- Quality; Blackbody; Emmissivity; Freezing point blackbody; Heat pipe blackbody; 12400. **SP305-4.**



ity; Seller; Specifications; Validation; Buyer; Computer software; Marketplace; Performance measurement; *15495*. **SP305-7.**

ity; Standards; Procedure; Products; *9904*. **SP305-1.**

ity and compatible part material; Quality diamond tools; Controlled environment; Diamond machining; Machined optics; Nondistortion part support; Position errors; *SP435*, pp. 89 (Apr. 1976). **SP305-8.**

ity assurance; Calibration; Megavoltage radiotherapy; *456*, pp. 351-358 (Nov. 1976). **SP305-8.**

ity assurance; Quality control; Radioactivity; Reference thodis; Calibration; Intercomparison studies; *SP456*, pp. 3-265 (Nov. 1976). **SP305-8.**

ity assurance; Radioactive effluents; Radioanalytical data; gulations; Environmental samples, laboratories; *SP456*, pp. 9-261 (Nov. 1976). **SP305-8.**

ity assurance; Radiopharmaceuticals; <sup>99m</sup>Tc; Technetium; gamma camera; Nuclear medicine; *SP456*, pp. 131-138 (Nov. 1976). **SP305-8.**

ity assurance; Reactor systems and components; Safety standards; Failure prevention; Mechanical failure; Mechanical malfunction; *SP423*, pp. 143-151 (Apr. 1976). **SP305-8.**

ity assurance; Regulation; Safety standards; Sampling plan; Sampling scheme; *NBSIR 75-697*. **SP305-7.**

ity assurance measurements; X-ray quality control; Diagnostic radiology; Pass-fail tests; *SP456*, pp. 119-130 (Nov. 1976). **SP305-8.**

ity assurance testing; Testing laboratory; Building codes; Building manufacturer; Coordinated Evaluation System; Engineering analysis; Laboratory accreditation; Laboratory evaluation and Accreditation Program (LEAP); *13057*. **SP305-4.**

ity classes; Rolling load; Surface evenness; Test methods; Arm to touch; Colour fastness; Flatness; Flooring; Installation; Performance requirements; Properties; *SP361*, Vol. 1, pp. 601-612. **SP305-4.**

ity control; Medical physicist; Radiation measurement; Radiation therapy; Tumor dose; *SP456*, pp. 111-118 (Nov. 1976). **SP305-8.**

ity control; Quantitative accuracy; Reference materials; Sampling; Concentration; Detectors; Extraction; Gas chromatography; Isolation and clean-up; Mass spectrometry; Organic trace analysis; Qualitative accuracy; *SP422*, pp. 9-34 (Aug. 1976). **SP305-8.**

ity control; Radiation measurement; Radiation processing; Radiation sterilization; Radiochromic dyes; Red Perspex; Emulsion control; Dosimetry; Electron beams; Gamma rays; Physical measurements; *16648*. **SP305-8.**

ity control; Radioactivity; Reference methods; Calibration; Intercomparison studies; Quality assurance; *SP456*, pp. 263-265 (Nov. 1976). **SP305-8.**

ity control; Reference materials; Sulfur dioxide; Air pollution; Chemical analysis; Paraoxaniline method; *NBSIR 75-2*. **SP305-7.**

ity control; Safety; Testing; Engineering, instrumentation and techniques; Fluids; Force; Hydraulic equipment; Mechanical power; Noise; Pressure; *16452*. **SP305-8.**

ity control; Safety standards; Economic cost of failure prevention; Frequency of failure; Government action; Life-cycle costing; Marginal analysis; *SP423*, pp. 107-116 (Apr. 1976). **SP305-8.**

ity control; Sampling; Statistics; Test variability; Acceptance sampling; Letter; *9922*. **SP305-1.**

ity control; Scanning; Television systems; Variability; Variance (statistics); Aggregates; Anisotropy; Automation; Computers; Mechanical properties; Microscopes; Microstructure; Particle distribution; Phase mapping; *12935*. **SP305-4.**

ity control; Software; ADP policies; Computer technology; Management; *14634*. **SP305-6.**

Quality control; Software testing; Software verification; Static software analysis; Structured programming; System errors; System performance; Theorem-proving; Compiler; Computer network; Documentation; Dynamic software analysis; Interpreter; *TN800*. **SP305-6.**

Quality control; Standardization; Testing facilities; Bolivia; Measurements; *NBSIR 76-1099*. **SP305-8.**

Quality control; Standards; Air pollution; Calibration; Evaluation; Inter-calibration; *15978*. **SP305-8.**

Quality control; Surrogate specimens; Trace elements; Accuracy and precision; Clinical chemistry; *SP422*, pp. 35-40 (Aug. 1976). **SP305-8.**

Quality control; Systematic error; Youden plot; Analytical performance; Between-run; Calibration; Precision; *SP422*, pp. 141-150 (Aug. 1976). **SP305-8.**

Quality control; Test methods; Apparel materials; *10316*. **SP305-1.**

Quality control; U.S. AID; Africa; Asia; Engineering standards; Industrialization; Latin America; Less-developed countries; Measurement standards; NBS; *SP359*. **SP305-4.**

Quality control, apparel industry; Test methods, textile; Testing programs, apparel industry; Textile testing, apparel materials; Apparel industry; Equipment, textile testing; Industry, apparel; Performance, apparel materials; Properties, apparel; *12435*. **SP305-4.**

Quality control measures; Rate constants; Rate evaluations; Art of evaluation; Chemical reactions; *13484*. **SP305-5.**

Quality control, sewing threads; Sewing threads; Testing programs, sewing thread tests, sewing thread; Thread properties; Threads, sewing; Apparel industry; Industry, apparel; Performance, sewing thread; Properties, sewing thread; *12382*. **SP305-4.**

Quality description; System approach; Building; Design process; ER-system; Performance; Performance concept; *SP361*, Vol. 1, pp. 191-200. **SP305-4.**

Quality determination; Rocket propellant; Slush hydrogen; Liquid-solid hydrogen mixtures; *10336*. **SP305-1.**

Quality diamond tools; Controlled environment; Diamond machining; Machined optics; Nondistortion part support; Position errors; Quality and compatible part material; *SP435*, pp. 75-89 (Apr. 1976). **SP305-8.**

Quality factor; Transmission coefficient; Coherent radiation; Josephson junction; Microstrip; *14919*. **SP305-7.**

Quality software; Software engineering; Programming; *TN832*. **SP305-6.**

Quality software; Structural programming; Block structure; Control flow; GOTO-less programming; Language design; Precompiler; *14916*. **SP305-7.**

Quantifying; Electromagnetic fields; Field parameters; Hazards; Instrumentation; *TN389*. **SP305-2.**

Quantitation; Gas chromatography; Liquid chromatography; Oil spill; Petroleum; *16423*. **SP305-8.**

Quantitation; Soft tissue; Biological analysis; Electron probe; Ion probe; Microprobe analysis; *14236*. **SP305-6.**

Quantitative; Radical; Reagent; Determination; Electron-transfer; Inosine; Oxidation; *12151*. **SP305-3.**

Quantitative; Spark excitation; Spectral intensity; Spectrochemical analysis; High energy; High power; Laser probe; Laser vaporization; Photographic emulsion; Pit volume; Q-switched ruby laser; *10005*. **SP305-1.**

Quantitative accuracy; Reference materials; Sampling; Concentration; Detectors; Extraction; Gas chromatography; Isolation and clean-up; Mass spectrometry; Organic trace analysis; Qualitative accuracy; Quality control; *SP422*, pp. 9-34 (Aug. 1976). **SP305-8.**

Quantitative analysis; Absorption correction; Atomic number correction; Electron probe microanalysis; Fluorescence correction; *10978*. **SP305-2.**

- Quantitative analysis; Absorption of x-rays fluorescence; Atomic number effects; Error propagation; Microprobe analysis; *11587. SP305-2.*
- Quantitative analysis; Air particulate matter; Proton scattering; *SP425, pp. 484-487. SP305-7.*
- Quantitative analysis; Continuum fluorescence; Data reduction; Electron probe microanalysis; Fluorescence correction; *TN769. SP305-5.*
- Quantitative analysis; Decision-making; Education; Management; Operations research; *10793. SP305-1.*
- Quantitative analysis; Dipole moment; Microwave spectroscopy; Molecular rotation; Molecular structure; Qualitative analysis; *13536. SP305-5.*
- Quantitative analysis; Electron spectroscopy for chemical analysis; Mean free path; *16079. SP305-8.*
- Quantitative analysis; High sensitivity; Intracavity absorption; Laser; *14857. SP305-7.*
- Quantitative analysis; Management; Decision-making; Education; Operations research; *TN414. SP305.*
- Quantitative analysis; Retained austenite; X-ray diffraction; Austenite; Computer; Ferrite; Phase measurement; *TN709. SP305-4.*
- Quantitative analysis; Rotational spectra; Applications; Chemical analysis; Microwave; Qualitative analysis; *15261. SP305-7.*
- Quantitative analysis; Rotational spectra; Applications; Chemical analysis; Microwave; Qualitative analysis; *15625. SP305-7.*
- Quantitative analysis; Scanning electron microscopy; Electron probe microanalysis; Empirical methods; Fe-Si alloys; Monte Carlo methods; *15246. SP305-7.*
- Quantitative analysis; Secondary ion mass spectrometry; Surface analysis; CARISMA program; Ion microprobe mass analysis; Local thermodynamic equilibrium model; *15862. SP305-8.*
- Quantitative analysis; Solid state counters; Tests; X-ray spectra; X-ray spectrometers; Electron diffraction; Electron probes; Evaluation; Gas flow; Lithium; Microanalysis; Multichannel analyzer; Proportional counters; *12251. SP305-3.*
- Quantitative analysis; Solids; Spark source; Trace elements; Fluctuations; Homogeneity; Ion sensitive emulsion; Mass spectrometry; Precision; *12127. SP305-3.*
- Quantitative analysis; Source-sample-detector geometry; Tin compounds; Use of filters; High resolution detector; Mössbauer; *11420. SP305-2.*
- Quantitative analysis; Specimen preparation; X rays; Electron probe microanalyzer; Microanalysis; Qualitative analysis; *14897. SP305-7.*
- Quantitative analysis; Standard reference materials; X-ray emission; Alloys; Corrections; Electron probe; Homogeneity; Matrix scanner; Microanalysis; *SP260-28. SP305-3.*
- Quantitative analysis; Stannic oxide; Tin ores; Mössbauer spectrometry; *15358. SP305-7.*
- Quantitative analysis; Stereometric analysis; X-ray absorption; X-ray emission; Atomic number effect; Biological specimens; Electron probe microanalysis; Electron scattering; Fluorescence by the continuum; *SP298. SP305-1.*
- Quantitative analysis; Thin films; X rays; Electron probe microanalysis; Monte Carlo calculations; Particulates; *16410. SP305-8.*
- Quantitative analysis; Tin; X-ray fluorescence; Gamma-excitation; Medium-weight elements; Molybdenum; *10365. SP305-1.*
- Quantitative analysis; X-ray fluorescence; Electron probe microanalysis; Error analysis; Fluorescence corrections; *10980. SP305-2.*
- Quantitative analysis; X-ray spectroscopy; Corrections; Electron probe microanalysis; *14328. SP305-6.*
- Quantitative analysis; X-ray spectroscopy; Corrections; Electron probe microanalysis; *TN521. SP305-2.*
- Quantitative characterization; Scanning electron microscope; Surface finish analysis; Surface morphology; Surface roughness; Surface topography; Three-dimensional image; Ceramic Materials; *SP348, pp. 309-316. SP305-4.*
- Quantitative comparisons; Vinyl and vinylidene; Fluoropolymers; Gamma irradiation; Irradiation, gamma; *Polym 10119. SP305-1.*
- Quantitative data scanning; Concentration mapping; Electron probe microanalysis; Experiment design; Inclusion analysis; Microscopy; *11207. SP305-2.*
- Quantitative detection; Infrared detection; Laser magnetic resonance; Modulated absorption; Nitrogen dioxide; NO<sub>2</sub> detection; *16623. SP305-8.*
- Quantitative electron probe analysis; X-ray absorption factor; Absorption correction; Primary emission; *15722. SP305-8.*
- Quantitative electron probe microanalysis; Scanning electron microscopy; SRM-480; Empirical methods; Minicomputer; On-line analysis; *15248. SP305-7.*
- Quantitative experiment; Smoke control; Smoke simulation; Analysis; Basic correlation formulas; Computer calculation; High-rise building fire; Operation BREAKTHROUGH; Fertilized stairwell; *13795. SP305-5.*
- Quantitative microanalysis; Absorption of x-rays; Al-Mg analysis; Electron microprobe; Errors in microanalysis; Microprobe absorption correction comparisons; Microprobe experimental conditions; *10452. SP305-1.*
- Quantitative microanalysis; Electron probe; Mini-computer; Line correction; *TN796. SP305-5.*
- Quantitative microanalysis; Splat cooling; Standard preparation; Al-Mg; Au-Si; Electron probe standards; *10350. SP305-1.*
- Quantitative microprobe; Analysis of microstructures; Automatic scanning (of micrographs); Precision scanning micrographs; *12416. SP305-4.*
- Quantitative microscopy; Analysis of microstructures; Automatic scanning (of micrographs); Computer processing micrographs; Logical modification of pictures; Precision scanning (of micrographs); *10693. SP305-1.*
- Quantitative microscopy; Analysis of microstructures; Automatic scanning (of micrographs); Computer processing micrographs; Logical modification of pictures; Precision scanning (of micrographs); *11237. SP305-2.*
- Quantitative microscopy; Size distribution; Computer analysis of micrographs; Grain size; Micrographic analysis; Picture analysis; *11238. SP305-2.*
- Quantitative microscopy; SRM; X-ray fluorescence analysis; Austenite in ferrite; Electron microprobe; Powder metallurgy; *SP260-25. SP305-3.*
- Quantitative microscopy; Stereological analysis; Autoradiography (of micrographs); Computer processing (of micrographs); Logical modification of pictures; Precision scanning (of micrographs); *10255. SP305-1.*
- Quantitative Mössbauer spectrometry; Standard reference materials; Backscatter geometry; Computer programs; Mössbauer spectrometry; Computers; Corrosion products; Counting statistics; Cross sections; Detection limits for analysis; *TN451. SP305-1.*
- Quantitative numerical data; Industrial process data; Process summaries; *NBSIR 76-1002. SP305-8.*
- Quantitative phase analysis; Quantitative powder diffraction; Reference intensity ratios; Systematic errors in powder fraction; Calculated powder patterns; *III; Microabsorption effects; 15929. SP305-8.*
- Quantitative powder diffraction; Reference intensity ratios; Systematic errors in powder diffraction; Calculated powder patterns; *III; Microabsorption effects; Quantitative phase analysis; 15929. SP305-8.*
- Quantitative x-ray microanalysis; Thin films; X-ray emission; Electron trajectories; Magnetic effects; Monte Carlo calculations; Multiple scattering x-ray generation; Particle analysis; *SP460, pp. 105-128 (Dec. 1976). SP305-8.*

ativity; Rationalization; Systems of equations; Units; Inherent; Dimension; 11766. **SP305-2.**  
 ity calculus; Quantity equation; Abstract unit; Angle; Dimensional analysis; Measurement unit; Numeric; 9979. **SP305-1.**  
 ity equation; Abstract unit; Angle; Dimensional analysis; Measurement unit; Numeric; Quantity calculus; 9979. **SP305-**  
 ity gaging; Density; Instrumentation; Liquid level; Phase section; 14171. **SP305-6.**  
 ity standards; Regulations; Consumer commodities; Labeling; Packaging; Proliferation; 12259. **SP305-3.**  
 itum chemistry; Atomic collisions; Fine-structure transitions; HF<sup>+</sup> molecule; Molecular states; 13258. **SP305-5.**  
 itum chemistry; Atomic collisions; Fine-structure transitions; HF<sup>+</sup> molecule; Molecular states; 13273. **SP305-5.**  
 itum chemistry; CO<sub>2</sub><sup>-</sup>; Electron scatter; Energy curve; Excitation energy; Metastable; 12969. **SP305-4.**  
 itum chemistry; Spin conservation; Oxygen fluorides; 815. **SP305-4.**  
 itum chemistry; Stimulated emission; Continuum emission; Lasers; Line shapes; Molecular spectroscopy; 13832. **SP305-**  
 itum chemistry; Transition metal complexes; Catalysis; Desorption theory; Metal clusters; Molecular orbitals; 1455, pp. 67-86 (Nov. 1976). **SP305-8.**  
 itum corrections; Second virial coefficient; Statistical mechanics; Thermodynamics; Lennard-Jones gas; *m-6* intermolecular potential; *J75A No. 1*, 57-89 (1971). **SP305-3.**  
 itum corrections; Statistical mechanics; Viscosity; Boltzmann gas; Cross-section for viscosity; Hard sphere gas; 303. **SP305-3.**  
 itum counters; Rhodamine B chloride; Spectrofluorimetry; Total internal reflection; Emission anisotropy; Fluorescence; Photodetectors; Polarization; 16430. **SP305-8.**  
 itum counters; Spectrofluorometers, design; Spectrofluorometry, absolute; Standard lamps; Standards, fluorescence; Thermopiles; Actinometers; Calibration of spectrofluorometers; Detectors, absolute; Fluorescence spectrum, corrected; *SP378*, pp. 137-150. **SP305-5.**  
 itum counters; Spectrofluorometers, design; Spectrofluorometry, absolute; Standard lamps; Standards, fluorescence; Thermopiles; Actinometers; Calibration of spectrofluorometers; Detectors, absolute; Fluorescence spectrum, corrected; *J. 76A No. 6*, 547-560 (1972). **SP305-4.**  
 itum efficiencies; Aluminum in steel, Bilirubin; DTA standards; Fluorescence filters Ti(I), Ce(III), Pb(II); Glass filters RM 930; Mercury in botanical; *TN584*. **SP305-3.**  
 itum efficiencies; Calorimetry in quantum yields; Laser, *e* in quantum yields; Photodetectors in quantum yields; *SP378*, pp. 151-167. **SP305-5.**  
 itum efficiencies; Calorimetry in quantum yields; Laser, *e* in quantum yields; Photodetectors in quantum yields; *J. 76A No. 6*, 561-577 (1972). **SP305-4.**  
 itum efficiencies; Radiant efficiencies; UV excitation; X-ray excitation; Cathode-ray excitation; Luminescence; Luminescence standards; Phosphors; *J. Res. 80A No. 3*, 401-7 (1976). **SP305-8.**  
 itum efficiencies; Radiative rates; Rare earths; Silicate glasses; Europium; Fluorescence; Lifetimes; Luminescence; Nonradiative rates; Oscillator strengths; 14276. **SP305-6.**  
 itum efficiencies; Resonant energies; Sensitized fluorescence; Fluorescence; 9655. **SP305-1.**  
 itum efficiency; Radiative recombination; Ruby laser; Temperature dependence; GaAs; 10244. **SP305-1.**  
 itum efficiency; Solar energy; Energy levels; Photocatalytic electrodes; Photoelectrolytic cells; Photogalvanic cells; 1455, pp. 221-227 (Nov. 1976). **SP305-8.**  
 Quantum efficiency; Spectrofluorometry; Spectrophotometry; Standards; Accuracy; Critical parameters; Instrumentation; Linearity; *SP378*. **SP305-5.**  
 Quantum electric standards; Radio-frequency standards; Absolute measurements; Basic electrical standards; *SP335*, pp. 129-132. **SP305-3.**  
 Quantum electrodynamics; Data analysis; Fundamental constants; Least-squares adjustments; *J. Phys. Chem. Ref. Data 2*, No. 4, 663-734 (1973). **SP305-6.**  
 Quantum electrodynamics; Data analysis; Fundamental constants; Least-squares adjustments; 15947. **SP305-8.**  
 Quantum electrodynamics; Renormalization; Time-ordering operator; Vacuum polarization; Weak interactions; Gauge invariance; 14429. **SP305-6.**  
 Quantum electronics; Ion storage; Laser stabilization; Maser oscillator; Metrology; Saturated absorption; Slave oscillators; 12068. **SP305-3.**  
 Quantum electronics; Saturated absorption; Slave oscillators; Accurate frequency standards; Accurate length standards; Accurate time standards; Accurate voltage standards; Ion storage; Laser stabilization; Maser oscillator; Metrology; 12099. **SP305-3.**  
 Quantum field theory; Relativistic nuclear physics; Axiomatic field theory; Composite particles; Haag's theorem; Nuclear structure; 15695. **SP305-7.**  
 Quantum fluid; Specific heat; Thermodynamic properties; Cryogenics; Dilution refrigerator; Enthalpy; Entropy; Fermi-Dirac gas; Helium-3; Helium-4; Liquid; Mixtures; Osmotic pressure; *TN362*. **SP305.**  
 Quantum fluid; Thermal conductivity; Viscosity; Corresponding states; Enskog theory; Helium-four; Kinetic theory; 10971. **SP305-2.**  
 Quantum fluid; Thermodynamic properties; Cryogenics; Dilution refrigerator; Fermi-Dirac statistics; Heat exchangers; Helium-3; Helium-4; Liquid helium; Mixtures; 12553. **SP305-4.**  
 Quantum fluid; Thermodynamic properties; Cryogenics; Dilution refrigerator; Fermi-Dirac statistics; Heat exchangers; Helium-3; Helium-4; Liquid helium; Mixtures; 11981. **SP305-3.**  
 Quantum fluids; Quantum mechanical density distribution; Quantum statistical mechanics; Conservation equations; Equation of motion; Hydrodynamic equations; 11923. **SP305-3.**  
 Quantum gas; Thermal conductivity; Viscosity; Dissociation; Hydrogen; Intermolecular potential functions; Kinetic theory; *J.74A No. 3*, 331-353 (1970). **SP305-2.**  
 Quantum gases; Third virial coefficients; Virial equation; Non-polar gases; 10329. **SP305-1.**  
 Quantum interference; Rf attenuation; Rf measurements; Superconductivity; Josephson effect; 13359. **SP305-5.**  
 Quantum interference; Rf attenuation; Rf measurements; Superconductivity; Josephson effect; 13557. **SP305-5.**  
 Quantum interference; Rf attenuation; Rf measurement; Rf power; Superconductivity; Josephson effect; *TN643*. **SP305-5.**  
 Quantum interference; Rf attenuation; Rf measurement; Rf power; Superconductivity; Josephson effect; *TN661*. **SP305-6.**  
 Quantum interference; Rf attenuation; Superconductivity; Josephson junction; 14726. **SP305-7.**  
 Quantum interference; Rf attenuation; Superconductivity; Josephson junction; 14838. **SP305-7.**  
 Quantum interference; SQUID; Josephson junctions; 13992. **SP305-6.**  
 Quantum interference; SQUID; Superconductor; Geophysical prospecting; Magnetometer; Magnetotelluric; 14600. **SP305-6.**  
 Quantum interference; Superconductivity; Magnetometer; Microwaves; 12954. **SP305-4.**

- Quantum interference; Susceptibility; Copper; Impurities; Magnetism; 14365. SP305-6.
- Quantum interference device; Ratio transformer; Resistive divider; Superconductivity; Current comparator; Low temperature electrical measurement; 14937. SP305-7.
- Quantum interference devices; Superconductivity; Electrical measurements; TN629. SP305-5.
- Quantum liquids; Roton minimum;  $^3\text{He}$   $^4\text{He}$  solutions; Lifetime of excitations; Neutron scattering; Perturbation of elementary excitations; 15263. SP305-7.
- Quantum mechanical; Correlation functions; Hard spheres; 10665. SP305-1.
- Quantum mechanical density distribution; Quantum statistical mechanics; Conservation equations; Equation of motion; Hydrodynamic equations; Quantum fluids; 11923. SP305-3.
- Quantum mechanical Hamiltonian; Rotational levels; Computer tabulation; Ground vibrational state; Hyperfine splittings; Methane; 13682. SP305-5.
- Quantum mechanical precession; Rotational states; Nuclear levels; Nuclear rotation; Nuclear spectroscopy; Nuclear structure; 9656. SP305-1.
- Quantum mechanics; Antiferromagnetism; Cerous magnesium nitrate; Dipole-dipole interaction; Ferromagnetism; Ground state; Magnetic; Permutation group; 14911. SP305-7.
- Quantum mechanics; Atomic and molecular processes; Comets; Line formation; Polarization; 15746. SP305-8.
- Quantum mechanics; Band strengths; Continuum emission; DeBroglie wavelength; Diatomic molecule; He; Helium isotopes; Radiative deexcitation; Ultraviolet spectra; 10283. SP305-1.
- Quantum mechanics; Hydrogen; Equation of state; Statistical mechanics; Intermolecular potential; Second virial coefficient; TN412. SP305.
- Quantum mechanics; Radiative equilibrium; Special functions; Transport problems; Diffusion theory; Exponential integral; Indefinite integrals; J.73B No. 3, 191-210 (1969). SP305-1.
- Quantum mechanics; Rate coefficients; Recombinations; Scattering theory; Chemical reactions; Collision theory; Cross sections; Dissociation; Hot atoms; Isotope effects; Kinetics; Molecular beams; 16591. SP305-8.
- Quantum mechanics; Recombination decomposition; Resonance scattering; Scattering theory; Unimolecular kinetics; Absolute Rate Theory; Association; Configuration interaction; 11512. SP305-2.
- Quantum mechanics; Resonance scattering; Theoretical; Unimolecular dissociation; Activated complex; Activated molecules; Activated state; Decay; Dissociation; High pressure rate constant; Kinetics; Lifetime; Mass spectra; Metastable molecules; 9366. SP305.
- Quantum mechanics; Resonance scattering; Scattering theory; Unimolecular kinetics; Absolute rate theory; Association; Configuration interaction; Optical potential; Predissociation; 11401. SP305-2.
- Quantum mechanics; Scattering theory; Semiclassical approximation; Electron exchange; Electron scattering; Hydrogen atoms; Indistinguishable particles; Phase shifts; 16122. SP305-8.
- Quantum mechanics; Second quantization; Field operators and statistics; Fock space; Occupation number; Permutation symmetry of wave functions; 13372. SP305-5.
- Quantum mechanics; Second virial coefficient; Wigner-Kirkwood expansion; Equation of state; Helium; Lennard-Jones gas exchange effects; 11257. SP305-2.
- Quantum mechanics; Spectroscopy; Transition probabilities; Wave functions; Ions; Oscillator strengths; 16209. SP305-8.
- Quantum mechanics; Spin cluster; Spin-Hamiltonian; Antiferromagnetism; Cerous magnesium nitrate; Dipole-dipole coupling; Ferromagnetism; Ground state; Permutation group; 15524. SP305-7.
- Quantum mechanics; Wavefunctions; W.K.B; Atomic Band strengths; Broadening; Continuum-continuum transitions; Diatomic molecules; Emission absorption; Interaction potential; Pressure broadening; 10492. SP305-1.
- Quantum optics; Representation theory; Coherent states; Density operator; Distribution theory; Electromagnetic Photon statistics; P representation; Pure states; 10 SP305-1.
- Quantum standard of voltage; Solder-drop Josephson junction; Superconductivity; Inductive ratio divider; Josephson effect; NPL of UK; Potential-divider resistor; SP335, pp. 111. SP305-3.
- Quantum statistical mechanics; Conservation equations; Equation of motion; Hydrodynamic equations; Quantum fluids; Quantum mechanical density distribution; 11923. SP305.
- Quantum statistics; Quantum virial coefficient; Second virial coefficient; Hard spheres; 9282. SP305.
- Quantum statistics; Similarity transformations; Weyl projection; Baker-Campbell-Hausdorff formula; Density matrix differential equations; Expansions; Exponential operators; monic oscillator; Lie algebra; Normal ordering of operators; 10130. SP305-1.
- Quantum theory; Recoupling; Transformation theory; Angular momentum; Diagrams; Graphs; Monogr. 136. SP305-5.
- Quantum theory of angular momentum; 3j coefficient; 6j coefficient; 9j coefficient; Clebsch-Gordan coefficients; Racah program; Wigner coefficients; TN409. SP305.
- Quantum transport theory; Semiconductors; Thermomagnetic Galvanomagnetism; 15525. SP305-7.
- Quantum tunneling; Atom addition; Hydrogen isotopes; temperatures; Olefins; Orientation; 12040. SP305-3.
- Quantum virial coefficient; Second virial coefficient; spheres; Quantum statistics; 9282. SP305.
- Quantum yield; Absolute yield; Chemical actinometry; Correction factors; Luminescence; Quantum-flat actinometer; Res. 80A No. 3, 409-412 (1976). SP305-8.
- Quantum yield; Far ultraviolet photochemistry; Free radical; Organic compounds; Photofragments; Primary products; 14619. SP305-6.
- Quantum yield; Radiolysis; Vinyl chloride; Vinyl radical; phase; Photolysis; J.77A No. 2, 243-248 (1973). SP305-1.
- Quantum yield; Rare gas; Sensitization; Vacuum ultraviolet photolysis; CO<sub>2</sub>; Energy transfer; 11781. SP305-2.
- Quantum yield; Rate constant; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase; Photoabsorption cross section; Photochemistry; TN866. SP305-7.
- Quantum yield; Rate constant; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase; Photoabsorption cross section; Photochemistry; 16067. SP305-8.
- Quantum yield; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Energy transfer; Gas phase; High temperature air chemistry; Ion-molecule reaction; optical absorption cross sections; Photochemistry; 1 SP305-5.
- Quantum yield; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reaction; Optical absorption cross section; Photochemistry; 13770. SP305-5.
- Quantum yield; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Energy transfer; Gas phase; High temperature air chemistry; Ion-molecule reaction; optical absorption cross sections; Photochemistry; NBSI 430. SP305-6.
- Quantum yield; Triplet states; Fluorescence; Intersystem crossing; 11350. SP305-2.
- Quantum yield; Ultraviolet; Butene; Ionization efficiency; Isomers; Krypton resonance line; 14568. SP305-6.
- Quantum yields; Acetone; Far ultraviolet; Photolysis; Photochemical processes; 14353. SP305-6.



tum yields; Ammonia; Extinction coefficients; Far ultraviolet photochemistry; Free radicals; Primary processes; 371. SP305-6.

tum yields; C-atoms; Collisional deactivation; Free radical cations; Methane; Photolysis; 13172. SP305-5.

tum yields; Deactivation; Insertion reaction; Lifetime; Methane; Photolysis; 12996. SP305-4.

tum yields; Energy partitioning; Energy transfer; Excited states; Fluorescence; Photoionization; Photolysis; 13000. SP305-4.

tum yields; Ion-molecule reaction; Ion pair yield; Methane; Photochemistry; Photoionization; 177A No. 1, 101-7 (1973). SP305-5.

tum yields; Rare gas levels; (Vacuum ultraviolet) sen- zed decomposition; Energy transfer; Hydrocarbons; Photochemistry; 11128. SP305-2.

tum yields; Rare-gas resonance radiation; Unimolecular association; Ion-molecule reaction; Photoionization; 177A No. 6, 605-610 (1971). SP305-3.

tum yields; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reactions; Optical absorption cross sections; Photochemistry; 13563. SP305-5.

tum yields; Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reactions; Optical absorption coefficients; Photochemistry; J. Phys. Chem. f. Data 2, No. 2, 267-311 (1973). SP305-6.

tum yields; Stratosphere; Trichlorofluoromethane; Absorption cross section; Chlorine atom; Dichlorodifluoromethane; Ions; Photochemistry; 15571. SP305-7.

tum yields; Triplet states; Aromatics; Electronic spectroscopy; Intersystem crossing; 13305. SP305-5.

tum yields; Triplet states; Aromatics; Electronic spectroscopy; Intersystem crossing; 13322. SP305-5.

tum yields; Vacuum ultraviolet; Isotope effect; Methane; 1041. SP305-2.

tum yields; Vacuum ultraviolet photolysis; Free radical scavenging; Hydrocarbons; Isobutane; Neopentane; Primary photochemical processes; 14996. SP305-7.

tum yields; Water; Absorption; Carcinogenic; Fluorescence; Polycyclic aromatic hydrocarbons; 15831. SP305-8.

tum-flat actinometer; Quantum yield; Absolute yield; Chemical actinometry; Correction factors; Luminescence; J. Res. NBS No. 3, 409-412 (1976). SP305-8.

tum-mechanical; Atomic; Inner shell; Photoionization; 079. SP305-7.

tum-mechanical; Low temperature; Pair-correlation; 9877. SP305-1.

rk model; Regge residue; SU(3); Symmetry relations; Inclusion reactions; Pionization region; 13868. SP305-6.

rk models; Symmetries;  $\psi$  particles;  $\chi$  particles; Angular distributions; Gamma-gamma correlations; 15962. SP305-8.

rks; Coherent production; Cosmic rays; High momentum components; Many-body clusters; Nuclei; 12144. SP305-3.

rks; Spectroscopy;  $A^2$ ; Baryons, exotics; Mesons; 13295. SP305-5.

ter wave; Reflection coefficient measurement; Standing wave machine; UHF; Impedance measurement; Microwave; 1389. SP305-1.

ter-wave plate; Ellipsometer; Multiple reflections; 9522. SP305.

ret model; Super-multiplet theory; Nuclear binding energies; Nuclear quartets; Nuclear reactions; Nuclear structure; 1361. SP305-5.

ret structure; Core polarization; Electromagnetic transitions; Nuclear spectroscopy; Nuclear structure; Quadrupole moment; 13340. SP305-5.

ret structure; Rearrangement; Binding energy; Mass formulae; Nuclei; Particle-hole energy; 12145. SP305-3.

Quartets; Rotational states; Vibrational states; Collective correlations; Four particle-four hole states; Light nuclei; 12146. SP305-3.

Quartetting; Shell-model; Structure; Wave function; Correlations; Neutrons; Pairing; 12851. SP305-4.

Quartz; Self-generated atmosphere; Calibration filters; Chrysotile; Environmental health; Improved methodologies; Particulates; 15466. SP305-7.

Quartz; Shaping; Closed die; Forging; Isostatic; Polishing; SP462, pp. 95-99 (Dec. 1976). SP305-8.

Quartz; Silicosis; X-ray diffraction; Analytical methods; Industrial hygiene; 13975. SP305-6.

Quartz; Slip bands; Dislocation velocity; High speed dislocations; Impact stress pulse; Piezoelectric stress gauge; SP336, pp. 487-508. SP305-3.

Quartz; Synthetic brown quartz; Amethyst; Electron paramagnetic resonance; Ferric ion; 11393. SP305-2.

Quartz Bourdon gauge; Static expansion; Thermal transpiration; Vapor-stream pumping; Viscosity gauge; Capacitance-diaphragm gauge; Knudsen radiometer; McLeod gauge; Micromanometry; 14933. SP305-7.

Quartz crystal; Rubidium gas cell; Timekeeping; Cesium beam; Clocks (atomic); Crystal oscillator; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen maser; TN616. SP305-4.

Quartz crystal; Rubidium gas cell; Timekeeping; Cesium beam; Clocks (atomic); Crystal oscillator; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen maser; TN616. Revised March 1974. SP305-6.

Quartz crystal microbalance; Solar panels; Space; Sputtering; Surface contamination; Cleaning; Desorption; Ions; Outgassing; SP336, pp. 113-127. SP305-3.

Quartz crystal microbalance; Spacecraft contamination; Particulate sampling; SP336, pp. 105-111. SP305-3.

Quartz crystal microscope; Aerosol sizing; Cascade impactor; Particle detection by impact; Particle size measurements; Piezoelectric crystal; SP412, pp. 137-148. SP305-6.

Quartz crystal oscillator; Ramsey cavity; Slave oscillator; Atomic frequency standard; Cesium beam; Figure of merit; Frequency accuracy; Frequency multiplier; Frequency precision; NBS-III; NBS-5; Phase noise; 11959. SP305-3.

Quartz crystal oscillator; Time domain stability; Allan variance; Flicker of phase noise; Frequency stability; Oscillator noise models; Phase noise spectral density; 12383. SP305-4.

Quartz crystal oscillator mass monitors; Radiometry; Reflectometry; Space environment simulation chambers; Contamination collection units; Gas-liquid chromatography; Infrared spectrometry; Mass spectrometry; SP336, pp. 25-49. SP305-3.

Quartz crystal oscillators; Quartz crystal resonators; Accuracy; Atomic clocks; Cesium standards; Hydrogen standards; Hydrogen storage device; Methane stabilized helium-neon lasers; Noise studies; 14846. SP305-7.

Quartz crystal oscillators; Radio T/F dissemination; Rb frequency standards; Satellite T/F dissemination; Short-term stability; SI Units; TAI; Television T/F dissemination; Thallium beam standards; Time; Time dispersion; Time domain; Monogr. 140. SP305-6.

Quartz crystal oscillators; Time standards; Atomic frequency standards; Cesium beam; Flicker noise; Frequency stability; Frequency standards; Hydrogen maser; Long baseline interferometry; 11888. SP305-3.

Quartz crystal resonators; Accuracy; Atomic clocks; Cesium standards; Hydrogen standards; Hydrogen storage device; Methane stabilized helium-neon lasers; Noise studies; Quartz crystal oscillators; 14846. SP305-7.

Quartz crystal resonators; Short-term stability; Spectral density of frequency fluctuations; Time domain stability; Crystal controlled oscillator; Fast linewidth; 15673. SP305-7.

Quartz crystal resonators; Short-term stability; Spectral density of frequency fluctuations; Time domain stability; Crystal controlled oscillator; Fast linewidth; *15687. SP305-7.*

Quartz, cuvette; Radiation pathlength; Cuvette, spectrophotometry; Lightpath; Pathlength; *SP260-32. SP305-5.*

Quartz, cuvette; Radiation pathlength; Cuvette, spectrophotometry; Lightpath; Pathlength; *14432. SP305-6.*

Quartz dust; Microanalysis by x-ray diffraction; *14224. SP305-6.*

Quartz, soln in HF(aq); Reference material, soln calorimetry;  $\text{SiO}_2(\text{c})$ , soln in HF(aq); Thermochemistry; Enthalpy of soln,  $\text{SiO}_2$ ; Heat of soln,  $\text{SiO}_2(\text{c})$ ; *J.77A No. 2, 205-215 (1973). SP305-5.*

Quartz, standard reference materials; Standard reference material for calorimetry; Calorimetry, flow; Calorimetry, solution; Chlorine monofluoride; Fluorine dissociation; Hydrofluoric acid solution calorimetry; Microcalorimetry; *13280. SP305-5.*

Quasi particle density of states; X-ray emission and absorption; Density of states; Interacting electrons; One-particle Green function; Oscillator strengths; *SP323, pp. 233-247. SP305-4.*

Quasi particle density of states; X-ray emission and absorption; Density of states; Interacting electrons; One-particle Green function; Oscillator strengths; *J.74A No. 3, 417-431 (1970). SP305-2.*

Quasi-bound states; Two-particle two-hole states; Giant resonance; Intermediate structure; Nuclear structure; Particle-hole model; *15097. SP305-7.*

Quasideuteron effect; Short range correlations; Cluster expansion; High momentum components; Jastrow wave function; Photonic effect; *12686. SP305-4.*

Quasidiscination; Affine connexions; Continuum mechanics; Curvature tensor; Discination; Internal stresses; *SP317, pp. 637-649. SP305-3.*

Quasielastic; Activation energy; Cold neutron; Correlation time; Diffusion constant; Molecular reorientation; Neopentane; Neutron scattering; Plastic crystal; *11547. SP305-2.*

Quasielastic; Residence time; Sodium hydrosulfide; Cesium hydrosulfide; Hydrosulfides; Ion reorientation; Libration; Neutron scattering; Phase transition; *13700. SP305-5.*

Quasi-elastic model; Radiation tail; Transverse; Electroexcitation; Energy dependent potential; Goldhaber-Teller model; Longitudinal; Matrix elements; Momentum transfer; Particle-hole model; *12853. SP305-4.*

Quasi-elastic neutron scattering; Residence times; Activation energy; Ammonium-ion dynamics; Ammonium perchlorate; Jump reorientations; *15109. SP305-7.*

Quasielastic scattering; Alkali hydrosulfides; Hydrosulfide ion; Ion reorientation; Neutron scattering; Phase transition; *13698. SP305-5.*

Quasi-elastic scattering; Hydrosulfides; Libration; Neutron scattering; Phase transition; *15506. SP305-7.*

Quasielastic scattering; Residence time; Single crystal; Vibration amplitudes; Hydrogen diffusion; Hydrogen in tantalum; Interstitial sites; Neutron scattering; *14368. SP305-6.*

Quasielastic scattering; Resonance time; Tantalum hydrides; Vibrational amplitude; Activation energy; Hydrogen diffusion; Neutron scattering; *15264. SP305-7.*

Quasielastic scattering; Single crystal; Hydrogen diffusion; Hydrogen in metals; Jump diffusion; Neutron scattering; Palladium hydride; *13136. SP305-5.*

Quasielastic scattering; Vanadium hydride; Activation energy; Hydrogen diffusion; Lattice sites; Neutron scattering; Phase transition; *13163. SP305-5.*

Quasiequilibrium theory; Appearance potential; Benzene; Photoionization; *13464. SP305-5.*

Quasifree electrons; Solvated electrons; Conduction band; Drift mobility; Energy levels; Excess electrons; Hydrocarbons; Ion mobility; Liquids; Mobility; *NSRDS-NBS58. SP305-8.*

Quasifree scattering; Rescattering effects; Separable potentials; Three-body problem;  $^3\text{He}$ ; Pole dominance; *13126. SP305-3.*

Quasi-free scattering; Separable potentials; Three-body problem; Confidence cross sections;  $^3\text{He}(pd)$  vertex; wave impulse approximations; *13012. SP305-4.*

Quasi-harmonic approximation; Thermal expansion; Configuration of state; Frequency distribution; Grüneisen constant; Grüneisen equation of state; *J.77A No.4, 406-409 (1973). SP305-5.*

Quasi-harmonic specific heat; String of beads; Thermal expansion; Thermal properties; Volume; Bulk modulus; Grüneisen  $\alpha$ -alkanes; Normal mode; Polyethylene; *12305. SP305-3.*

Quasi-linear; Theory; Triatomic; Vibration-rotation; Benzene; Large amplitude; *14357. SP305-6.*

Quasi-linear molecule; Renner splitting; Temperature dependent absorption coefficient; Transition moment; Ultraviolet *ab initio* potential curve; Carbon dioxide; *12458. SP305-5.*

Quasi-localized state; Tight-binding; Cellular disorder; Ordered systems; Electronic density of states; Localization time; *SP323, pp. 521-526. SP305-4.*

Quasi-optics; Reflection coefficient; Transverse displacement; Vector solution; Approximation errors; Complex dielectric constant; Convergence confidence interval; Contour integrals; Dielectric liquid; Diffraction; Experimental apparatus; Fresnel equations; *TN369. SP305-1.*

Quasi-optics; Total reflection; Turnstile junction; Millimeter waves; Polarizers; *11744. SP305-2.*

Quasi-particle; Satellite structure; Electronic density of states; Free-electron like metals; Interband absorption; Optical properties; Plasmon; Pseudopotential; *SP323, pp. 125-131. SP305-4.*

Quasi-particle; Superconductors; Density of states; Gruneisen function; Mass enhancement; *SP323, pp. 227-231. SP305-3.*

Quasi-particle; Superconductors; Density of states; Gruneisen function; Mass enhancement; *J.74A No. 4, 537-541 (1970). SP305-2.*

Quasiparticle interference current; Josephson tunnel junction; Magnetic field; Microwave losses; *13168. SP305-5.*

Quasi-particles; Fluctuations; Neutron strength functions; Neutron scattering; *SP425, pp. 806-809. SP305-7.*

Quasi-property; Right to royalties; Supplementary symmetry; Traditional property-rights; Unrestricted copying; Useful; Anti-trust violations; Better products; Copy; Developer-producer's; Dormant patents; Higher product improvements; *9780. SP305-1.*

Quasi-sinusoid; Digital; Logic gating; *11876. SP305-3.*

Quasi-static theory; Strain gage measurements; Drop-ball impact; Lens; Ophthalmic lens; *16310. SP305-8.*

Quaternions; Skew-symmetric; Regular representation; Correlation; Matrix; Orthogonal; *J.71B1-196, 43-46 (1967). SP305-1.*

Quaternization; Alkyl halides; Antimony; Arsenic; Environmental; Kinetics; Methylation; Nucleophilic reactivity; Organic salts; Polar solvents; Pollutants; *16228A. SP305-8.*

Quebrachol, levo-inositol; Standard reference materials; Isobutylidene- $\beta$ -L-idofuranose; 2,3-O-isopropylidene- $\beta$ -D-threosulfoluranose; Air pollution studies; Characterization of chemical structures; Disaccharide of D-xylofuranose; *TN427. SP305.*

Quenched glass; Residual (configurational) entropy; Thermodynamic properties; Annealed glass; Crystal; Diphenylphthalate; Glass transformation; Heat capacity calorimetry; Molecular configurational state; *J.71A4-461, 293-300 (1967). SP305.*

Quenched sample; Storage modulus; Tan  $\delta$ ; Torsion pendulum; Varying crystallinities; Apparatus; Isothermally crystallized sample; Loss compliance; Loss modulus; Mechanical relaxation; Polychlorotrifluoroethylene; *9441. SP305.*

Quencher; Air; Automotive exhaust emission; Detection; Fluorescence; Nitric oxide; Nitrogen; *14991. SP305-7.*

Annuity; Annihilation radiation; Compton wavelength of the electron; Positronium; *J.71A5-464, 347-353 (1967). SP305.*  
 Annuity; Deactivation; Fluorescence; Hydrogen atoms; *J.71A5-466. SP305-4.*  
 Annuity; Silver-tin alloy; Stacking fault tetrahedra; Dislocation loops; Dislocations; Electron microscopy; *10037. SP305-4.*  
 Annuity; SO<sub>2</sub>; Fluorescence; Predissociation; *12507. SP305-4.*  
 Annuity; Sulfur dioxide; Emission gas; Exhaust; Fluorescence; Nitric oxide; *16444. SP305-8.*  
 Annuity; Vibrational energy transfer; Bibliography; Chemical kinetics; Chemiexcitation; Gas phase; Halogens; Hydrogen; Hydrogen halides; Laser; *SP392. SP305-6.*  
 Annuity; Vibrational relaxation; Active nitrogen; Afterglow; Atom recombination; Nitrogen atoms; *10321. SP305-1.*  
 Annuity; Xanthene dyes; Aminocoumarins; Carbazine dyes; Cerium effect; Fluorescence quantum yield; Laser dyes; Molecular structure; Oxazine dyes; *J. Res. 80A No. 3, 421-438 (1976). SP305-8.*  
 Annuity agents; Triplet states; Dye lasers; Lasers; *13297. SP305-5.*  
 Annuity rate; Spin-orbit coupling; Transition probability; Wave crossing; O(<sup>1</sup>D); O(<sup>1</sup>S); *15566. SP305-7.*  
 Annuity reactions; Upper atmosphere; Hydrogen atoms; Nitrogen atoms; O<sub>2</sub>(<sup>1</sup>Δ<sub>g</sub>); Oxygen atoms; *12090. SP305-3.*  
 Annuity language; Software selection; Text processing; Bibliographic systems; Computer programs; Computer systems; Data base; Data management; Information retrieval; Information services; Interactive system; *TN819. SP305-6.*  
 Annuity-answering; Statistical association; Automatic character recognition; Automatic classification; Automatic content analysis; Automatic indexing; Automatic pattern recognition; Key word indexing; Linguistic data processing; *11140. SP305-2.*  
 Annuitynaire; Standard frequency and time broadcasts; Time; Frequency; *TN674. SP305-7.*  
 Annuitynaire; Survey; Users; American Chemical Society; Chemical and physical properties; Compilation; Data; SRDS; Office of Standard Reference Data; *10123. SP305-4.*  
 Annuitynaire construction; Regulations; Survey design; Health standards; Migrant labor camps; *13787. SP305-5.*  
 Annuitying theory; Scheduling; Switching theory; Traffic flow; Transportation theory; Allocation; *J.72B No. 3, 215-227 (1968). SP305-1.*  
 Annuity; Analytical models; Evaluation; Measurement; Networks; Performance; *SP406, pp. 119-121. SP305-7.*  
 Annuitying model; Scheduling; Simulation; Systems; Administration; Health; Hospital; Managerial applications; Model; Policies; *12803. SP305-4.*  
 Annuitydrone electrode; Antimony electrode; Bioelectrodes; Biological systems; Electrodes; Glass electrode; Membrane electrodes; pH measurement; *10311. SP305-1.*  
 Annuityne derivatives; Rare earths; Relative quantum efficiencies; Solution standards; Emission spectra; Excitation spectra; Fluorescence; Fluorescence standards; Glass standards; *10378, pp. 231-244. SP305-5.*  
 Annuityne derivatives; Rare earths; Relative quantum efficiencies; Solution standards; Emission spectra; Excitation spectra; Fluorescence; Fluorescence standards; Glass standards; *J.76A No. 6, 641-654 (1972). SP305-4.*  
 Annuityones; Reaction mechanism; Sodium metaperiodate; Protic solvents; Aromatic hydrocarbons; Malonic acid; Periodic acid; Pyrene radical; *J.72A No. 4, 341-350 (1968). SP305-1.*  
 Annuityent groups; Solvability; Commutator subgroups; Inclusion theorems; Modular groups; *14194. SP305-6.*  
 Annuityent surface; Split extension; Factor set; Group extension; Level; Modular group; Parabolic class number; *9317. SP305.*

*q*-values; Radiation; Absorption cross section; Magnetic moment; Mass defect; Nuclides; Quadrupole moment; *13180. SP305-5.*

- R & D incentives; Tissue characterization; Tissue signature; Ultrasonic diagnosis; Ultrasound; Applied research; Imaging; Instrumentation technology; Medical ultrasonics; NSF; RANN; SP453, pp. 7-10 (Oct. 1976). **SP305-8.**
- R. A. Fisher; Francis Galton; Frequency curves, method of moments; Karl Pearson; Statistics; *Tables for Statisticians and Biometrists*; W. F. R. Weldon; Bibliography; *Biometrika*; Chi-square tests; Correlation, regression; 14822. **SP305-7.**
- Rabi spectrometer; Schrödinger equation; Transition probability; Velocity average; Atomic beam; Frequency shift; 10430. **SP305-1.**
- Racah algebra; Recoupling graphs; Recoupling transformations; Angular momentum theory; Matrix elements; Phase conventions; 12642. **SP305-4.**
- Racah cross section; Total photon cross section; Born approximation; Coulomb field; Moderate energy cross section; Pair production; *J.72B No. 1, 79-88 (1968)*. **SP305-1.**
- Race track microtron; Storage rings; Electron accelerators; Linear accelerators; Photonuclear physics; 13852. **SP305-6.**
- Racking; Reinforced plastics; Reinforced polyester; Sustained loading; Tensile shear; Adhesive bond; Aging; Composites; Compression; Flexure; Glass fiber; Housing system; Innovations; Laminate; Operation **BREAKTHROUGH**; 13473. **SP305-5.**
- Racking; Stiffness; Strength; Structural tests; Sustained load; Transportation; Vibration; Wood-frame; Deflection; Housing; Laboratory; Module; 13389. **SP305-5.**
- Racking; Stiffness; Structural deflections; Vibration; Wind load; Wood frame construction; Building damping; Drift; Dynamics; Earthquake; Frequency; Housing; Lateral resistance; *BSS44*. **SP305-5.**
- Racking; Test method; Vertical loads; Wall panels; Walls; Lateral loads; Loading rate; *BSS91*. **SP305-8.**
- Racking strength; Seismic loading; Shear strength; Shear wall; Stiffness; Analysis; Compressive strength; Deflection; Design; Flexural strength; Masonry walls; *NBSIR 74-520*. **SP305-6.**
- Radar beacon system; Air traffic control; Beacon code assignment; Digital simulation; *TN568*. **SP305-3.**
- Radar beacon system; Secondary surveillance radar; Air traffic control; Beacon code assignment; Digital simulation; 13106. **SP305-5.**
- Radar echoes; Short-pulse; Angular scattering law; Meter wavelength; 10196. **SP305-1.**
- Radar returns; Radio path-length variations; Refractive index; Water vapor density; Angular scatter; Atmospheric fine structure; Dot angles; 10232. **SP305-1.**
- Radial; Tires; Tire strength; Winter; Bias ply; Breaking energy; Passenger car; 11833. **SP305-3.**
- Radial arm saws; Safety; Table saws; Accident research; Consumer products; Injury data; Opinion survey; Portable circular saws; Power saws; *NBSIR 75-748*. **SP305-7.**
- Radial coefficients; Scattering calculations; Hartree-Fock approximation; Induction energy; Interaction potential; 13307. **SP305-5.**
- Radial distribution; Recombination mechanisms; Collisional-radiative recombination; Electron beam; Electron density; Light density; Nonlinear diffusion; Plasma; 9956. **SP305-1.**
- Radial distribution; Recombination-electron ion and plasma; Diffusion; 10178. **SP305-1.**
- Radial distribution function; Simple liquids; Superposition approximation; Three body correlation function; X-ray diffraction; Neutron diffraction; Percus-Yevick equation; 12016. **SP305-3.**
- Radial distribution function; Small angle x-ray scattering; Hard sphere fluid; Liquids; 12485. **SP305-4.**
- Radial distribution function; Speed-of-sound; Compressibility; Compressibility factor; Gases; 10065. **SP305-1.**
- Radial distribution function; X-ray diffraction; Liquid; L structure factor; Neutron diffraction; Pair correlation function; 13114. **SP305-5.**
- Radial energy integrals of Tm III; Spectrum of Tm III; Deionized thulium; Energy levels of Tm III; 11836. **SP305-3.**
- Radial integrals; Sack correction; Ytterbium; 11837. **SP305-3.**
- Radial positioning, wheel on shaft; Rubber-surfaced road; S cryogen density; Tire groove insert; Tire regroove; Waveguide, precision fabrication; Waveguide, adjustable width; Weathering test; Wheel-shaft angle, shifting due to rotation; Wind vane, damped; *TN536*. **SP305-2.**
- Radial resistivity inhomogeneities; Silicon resistivity; Spread resistance techniques; Dark field coring; MOS techniques; *PICTUREPHONE*; *SP400-10*, pp. 179-180. **SP305-6.**
- Radial tire failures; Certification of steel belted radial tires; High speed radial tire hazard; *NBSIR 75-734*. **SP305-7.**
- Radial tires; Speed capability; Tires; Winter tires; Bias ply; Grading; Passenger car tires; 11494. **SP305-2.**
- Radial tires; Speed capability; Tires; Winter tires; Bias ply; Grading; Passenger car tires; 11496. **SP305-2.**
- Radian; Angle; Dimension; Logarithm; Neper; *J.79B No. 3, 4, 127-135 (1975)*. **SP305-7.**
- Radiance; High-speed measurements; Optical attenuation; Photometry; *J.75C No. 2, 85-88 (1971)*. **SP305-3.**
- Radiance; Radiant sources; Scattering; Instrument function; Iterative computations; Nitrogen arc; 11662. **SP305-2.**
- Radiance; Radiometry; Reflectometry; Emissivity; Flare light; Flux measurement; Irradiance; Material properties; Photometry; Projectors; *SP300, Vol. 7*. **SP305-3.**
- Radiance; Rayleigh; Stefan; Temperature; Wien; Boltzmann; Draper; Jeans; Kirchhoff; Optical; Planck; Pyrometry; 9347. **SP305-1.**
- Radiance; Standards; Graphite arc; High-speed measurements; High temperatures; Pyrometry; 12201. **SP305-3.**
- Radiance modulation; Radiation; High-speed methods; Light attenuator; Photometry; *J.75C No. 1, 29-32 (1971)*. **SP305-3.**
- Radiance profile; Abel inversion; Abel transform; Emission profile; Plasma diagnostics; *TN368*. **SP305-1.**
- Radiance sources; Standards; Temperature; Blackbody; International Practical Temperature Scale; Optical; Photoelectric pyrometry; 9347. **SP305.**
- Radiance temperature; Hafnium; High-speed measurements; High temperature; Melting point; Pyrometry; *J. Res. 80A No. 4, 659-662 (1976)*. **SP305-8.**
- Radiance temperature; High-speed measurements; High temperature; Iron; Melting; Normal spectral emittance; *J. Res. 80A No. 4, 541-544 (1975)*. **SP305-7.**
- Radiance temperature; Reaction of Ba(g) and excited oxygen; Reaction of Fe(g) and oxygen; Review of literature on rate of effusion and mass-spectrometric data; Scandium group rare-earth gaseous monoxides; Specific heat; Total emittance; Vanadium; Zirconium; *NBSIR 74-600*. **SP305-7.**
- Radiance temperature; Spectral emittance; Surface roughness; Thermodynamic properties; Associated vapors; Graphite; Heat capacity; Molybdenum; Molybdenum pentafluoride; Niobium; *NBSIR 73-280*. **SP305-6.**
- Radiance temperature; Surface roughness; High-speed measurements; High temperature; Melting; Niobium; *J.77A No. 333-339 (1973)*. **SP305-5.**
- Radiance temperature; Tantalum; Emittance; High-speed measurements; High temperature; Melting point; Pyrometry; 16426. **SP305-8.**
- Radiance temperature; Wavelength; Melting point; Molybdenum; 15557. **SP305-7.**
- Radiance temperature; Zirconium; Electrical resistivity; High speed measurements; High temperature; Melting point; Normal spectral emittance; 15612. **SP305-7.**



- ant efficiencies; UV excitation; X-ray excitation; Cathode-  
excitation; Luminescence; Luminescence standards;  
osphors; Quantum efficiencies; *J. Res.* **80A** No. 3, 401-407  
976). **SP305-8**.
- ant flux;  $\alpha$ -cellulose; Flame spread; Instability; *16107*.  
**SP305-8**.
- ant flux; Reflectance standards; Standards calibration;  
rium sulfate; Diffuse reflectance spectra; Magnesium  
ide; Opal glass; *J. Res.* **80A** No. 4, 585-595 (1976). **SP305-**  
**8**.
- ant heat; Thermal inertia; ASTM Standard E119; Building  
struction; Charring; Combustion; Fire endurance; Fire  
st; Flame emissivity; Heat transfer; Pyrolysis; *NBS-GCR-75-*  
*SP305-8*.
- ant heat; Thermal sensitivity index; Calorimeter; Com-  
stion; Fire test; Heat release; Limiting thermal index;  
rolysis; *NBS-GCR-76-54*. **SP305-8**.
- ant heat flux; Carpets; Floor coverings; Horizontal; Igni-  
tion; Ignition time; Pilot ignition; *NBSIR 75-967*. **SP305-8**.
- ant heat flux; Corridor fire spread; Energy release rate;  
re induced flow; Flame propagation; Flashover; Floor  
verings; *NBSIR 75-691*. **SP305-7**.
- ant heat transfer; Reflectance measurements; Thermal  
diation; Computational methods; Emissivity; Emittance  
easurements; *9303*. **SP305**.
- ant panel; Carpet; Fire test; Flammability; Flooring; Heat  
flux; Ignition; *NBSIR 74-495*. **SP305-6**.
- ant panel; Fire hazard; Fire safety; Flooring test; *16233*.  
**SP305-8**.
- ant panel; Fire hazard; Fire safety; Flooring test; *NBSIR*  
*75-950*. **SP305-8**.
- ant panel; Smoke density; Time to ignition; Fire per-  
formance tests; Flame spread; Heat input; Heat release rate;  
miting oxygen index; *16136*. **SP305-8**.
- ant panel test method; Floor covering; Heat flux; *NBSIR*  
*75-706*. **SP305-8**.
- ant sources; Scattering; Instrument function; Iterative com-  
putations; Nitrogen arc; Radiance; *11662*. **SP305-2**.
- ant test panel; Radiant test sources; Diffusion flames;  
mission spectra; Flame spectra; Infrared spectra; *12737*.  
**SP305-4**.
- ant test sources; Diffusion flames; Emission spectra; Flame  
spectra; Infrared spectra; Radiant test panel; *12737*. **SP305-**  
**8**.
- iated emission; Radiation resistance; TEM cells; Measure-  
ments; *16469*. **SP305-8**.
- iating gases; Radiative transfer; Spectral lines; Transfer  
equation; Plasma diagnostics; *13236*. **SP305-5**.
- iation; Ablation; Evaluation; Heat shields; Heat transfer;  
lanetary entry; *SP336*, pp. 751-812. **SP305-3**.
- iation; Absorbed dose; Calorimetry; Dose distribution; Elec-  
tron beams; Holography; Interferometry; Pulsed beams;  
*2100*. **SP305-3**.
- iation; Absorption cross section; Magnetic moment; Mass  
effect; Nuclides; Quadrupole moment;  $q$ -values; *13180*.  
**SP305-5**.
- iation; Activation analysis; Crystal structure; Diffraction;  
isotopes; Molecular dynamics; Neutron; Nuclear reactor;  
*1813*. **SP305-6**.
- iation; Activation analysis; Crystal structure; Diffraction;  
isotopes; Molecular dynamics; Neutron; Nuclear reactor;  
*1896*. **SP305-8**.
- iation; Boiling; Boiling hysteresis; Boiling inception; Boiling-  
ite spreading; *11519*. **SP305-2**.
- iation; Bremsstrahlung; Electron; Interference; Molecular  
coherence; Photon spectrum; *12634*. **SP305-4**.
- iation; Crystal structure; Diffraction; Isotope; molecular  
structure; Neutron; Nuclear reactor; *1714*. **SP305-4**.
- iation; High-speed methods; Light attenuator; Photometry;  
radiance modulation; *J.75C* No. 1, 29-32 (1971). **SP305-3**.
- Radiation; Ionization structure; Lyman continuum problem;  
Planetary nebulae; *10443*. **SP305-1**.
- Radiation; Nonionizing fields; Probes; *16534*. **SP305-8**.
- Radiation; Photostimulation; Power supplies; *11276*. **SP305-2**.
- Radiation; Radiation detector; Radiation dosimetry; Silicon  
radiation detector; Temperature dependence; X rays; Gamma  
rays; Photocurrents; *J.75A* No. 6, 579-589 (1971). **SP305-3**.
- Radiation; Radiation effects; Resonant cavity; Rhesus; Suppres-  
sion; Behavior; Behavioral suppression; Exposure; Microwave  
radiation; Microwaves; Product safety; *15194*. **SP305-7**.
- Radiation; Radio frequencies; Radio frequency measurements;  
Radio metrology; Visible radiation; Lasers; *9567*. **SP305-1**.
- Radiation; Radiochromic dyes; Spectrophotometry; Colour  
dosimeters; Dosimetry; Dyes; Glass; Plastics; *15960*. **SP305-**  
**8**.
- Radiation; Radiography; Activation analysis; Crystal structure;  
Diffraction; Isotopes; Molecular dynamics; Neutron; Nuclear  
reactor; *17860*. **SP305-7**.
- Radiation; Radiometry; Sun; Weathering; Xenon arc; Carbon  
arc; Degradation; Irradiance; Photodegradation; Plastics;  
Polymers; *10472*. **SP305-1**.
- Radiation; Reaction kinetics; Thermal properties; Combustion;  
Conduction; Diffusion flames; Flame spread; Heat transfer;  
Integral equations; Mass transfer; *11285*. **SP305-2**.
- Radiation; Reactor; Research; Utilities; Biology; Career;  
Ecological; Electricity; Energy; Environment; Fusion;  
Medicine; Nuclear; Power; *17888*. **SP305-7**.
- Radiation; Reflectance; Cavity; Cylindrical cavity; Diffusely  
reflecting; Emissivity; Normal emissivity; *J.76A* No. 4, 347-  
349 (1972). **SP305-4**.
- Radiation; Regulations; Standards; Transfer standards; Govern-  
ment agencies; Measurement assurance program; Permissible  
limits; *14583*. **SP305-6**.
- Radiation; Regulations; States; Abstract; Compromise; Ineffec-  
tiveness; Measurements; *SP456*, pp. 31-36 (Nov. 1976).  
**SP305-8**.
- Radiation; Relaxation; Spectra; Symmetry; Collisions; Gases;  
Molecules; Pressure broadening; *9578*. **SP305-1**.
- Radiation; Rotational level; Vibrational state; 337-micron CN  
laser; Laser; *9163*. **SP305**.
- Radiation; Safety; X-ray generators; X rays; Calibration; Elec-  
trical measurements; Electro-optics; Frequency response;  
High voltage; Kerr effect; Operational amplifier; Pulses;  
*NBSIR 75-775*. **SP305-8**.
- Radiation; Scattering; Crystal structure; Diffraction; Molecular  
structure; Neutron; Nuclear reactor; *17567*. **SP305-3**.
- Radiation; Shielding; Analysis; Cross sections; Evaluation; In-  
formation; Processing; *SP425*, pp. 363-366. **SP305-7**.
- Radiation; Sodium; Molecules; Noble gases; *15167*. **SP305-7**.
- Radiation; Sound studies; Engineering; Environmental; Inter-  
ference abatement; Laboratory environments; *16009*. **SP305-**  
**8**.
- Radiation; Source and electrons; Synchrotron; X-ray, vacuum  
ultraviolet; *14636*. **SP305-6**.
- Radiation; Spectrometer; Azimuthal angle; Compton-Raman in-  
teraction; Hamiltonian; Polarization; *12345*. **SP305-3**.
- Radiation; Spectroscopy; Ultraviolet; X-rays; Absorption; *9311*.  
**SP305**.
- Radiation; Standards; Calibrations; Environment; Measure-  
ments; Medical; *SP456*. **SP305-8**.
- Radiation; Standards; Electromagnetic radiation; Energy densi-  
ty; Hazards; Measurement; Microwave radiation; Probe;  
*17391*. **SP305-2**.
- Radiation; Storage ring; Synchrotron radiation; Vacuum ul-  
traviolet; Electron accelerator; New facility; *15026*. **SP305-7**.
- Radiation; Supervoltage; Therapy; Dosimetry; Intercom-  
parisons; *SP456*, pp. 359-363 (Nov. 1976). **SP305-8**.
- Radiation; Temperature measurement; High-speed measure-  
ments; High temperature; Pyrometry; *13573*. **SP305-5**.

- Radiation; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; Neutron; Nuclear reactor; *TN758. SP305-5.*
- Radiation; Tetrafluoroethylene; Tetrafluoropropene; Copolymerization; High pressure; Polymerization; *13968. SP305-6.*
- Radiation; Thallium; Molecules; *16094. SP305-8.*
- Radiation; Threshold energies; Detection; Induced radioactivity; Maximum permissible concentrations; Photonuclear reactions; Processing; *9853. SP305-1.*
- Radiation; Transverse excitation; Charged particles; Dispersion relation; Equation of motion; *9743. SP305-1.*
- Radiation addition method; Nonlinearity; Photocell linearity; Photometric accuracy; *SP378, pp. 63-79. SP305-5.*
- Radiation addition method; Nonlinearity; Photocell linearity; Photometric accuracy; *J.76A No. 5, 437-453 (1972). SP305-4.*
- Radiation and reactivity ratios; Tetrafluoroethylene; Trifluoropropene; Copolymerization; Pressure; *9602. SP305-1.*
- Radiation applications; Accelerators; Electron linacs; Nuclear research; *13162. SP305-5.*
- Radiation beams; X-rays; Depth-dose dyes; Dose distribution; Dosimetry; Electrons; Films; Gamma rays; Gels; *12455. SP305-4.*
- Radiation calibrations; Radiation control; Radiation measurement assurance; Radiation standards; Mobile laboratory; *SP456, pp. 47-51 (Nov. 1976). SP305-8.*
- Radiation, charged particles; Charged particles; Electrons and photons; Interaction of radiation; *9250. SP305.*
- Radiation chemical kinetics; Radiation measurement; Refractive index; Temperature measurement; Calorimeter; Dosimetry; Electron beam; Interferometer; *15619. SP305-7.*
- Radiation chemistry; Hydride transfer; Ion clustering; Ion-molecule reactions; Proton transfer; *15816. SP305-8.*
- Radiation chemistry; Ion-molecule reaction; Kinetics; Mass spectrometry; Photoionization; Propane; *12175. SP305-3.*
- Radiation chemistry; Photochemistry; *9543. SP305-1.*
- Radiation chemistry; Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; Photochemistry; Polymers; *COM-71-01103. SP305-4.*
- Radiation chemistry; Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; Photochemistry; Polymers; *COM-72-10621. SP305-4.*
- Radiation chemistry; Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; Photochemistry; Polymers; *COM-72-10266. SP305-4.*
- Radiation chemistry; Radiation physics; Electrons; Free ions; Ion yields; Liquid; Nonpolar systems; *NSRDS-NBS57. SP305-8.*
- Radiation chemistry; Radiation processing; Dose distribution; Dyes; Electron beams; Energy transfer; Films; Gamma radiation; High resolution; Molecular excitations; *9909. SP305-1.*
- Radiation chemistry; Radiation sterilization; Solid-state detectors; Spectrophotometry; Dose distribution; Dosimetry; Dyes; Electron beams; Gamma rays; Glasses; Plastics; *14734. SP305-7.*
- Radiation chemistry; Rare gases; Cross sections; Excited states; Ionization; Mass spectrometry; *14832. SP305-7.*
- Radiation chemistry; Rate constants; Ion-molecule reaction; Ion structure; Ionic fragmentation; *14884. SP305-7.*
- Radiation chemistry; Rates; Aqueous solution; Chemical kinetics; Data compilation; Hydrated electron; *NSRDS-NBS43. SP305-5.*
- Radiation chemistry; Rates; Aqueous solution; Chemical kinetics; Data compilation; Hydrated electron; *NSRDS-NBS43. Supplement. SP305-7.*
- Radiation chemistry; Rates; Aqueous solution; Chemical kinetics; Data compilation; Hydrogen atom; *NSRDS-NBS51. SP305-7.*
- Radiation chemistry; Rates; Review; Chemical kinetics; I compilation; Dosimetry; G; Gas; Nitrous oxide; *NSR-NBS45. SP305-5.*
- Radiation chemistry; Rates; Review; Spectra; Chemical kinetic; Data compilation; Ethanol; G; *NSRDS-NBS48. SP305-6.*
- Radiation chemistry; Rates; Review; Chemical kinetics; I compilation; Methanol; *NSRDS-NBS54. SP305-7.*
- Radiation chemistry; Rates; Solvated electron; Alcohol; Chemical kinetics; Data compilation; *NSRDS-NBS42. SP305-4.*
- Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; Photochemistry; Polymers; Radiation chemistry; *COM-71-01103. SP305-4.*
- Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; Photochemistry; Polymers; Radiation chemistry; *COM-72-10621. SP305-4.*
- Radiation chemistry theory; Biological systems; ESR; Hot atom chemistry; Luminescence; Photochemistry; Polymers; Radiation chemistry; *COM-72-10266. SP305-4.*
- Radiation chopper; Sinusoidal modulation; *13873. SP305-6.*
- Radiation control; Radiation measurement assurance; Radiation standards; Mobile laboratory; Radiation calibrations; *SP4 pp. 47-51 (Nov. 1976). SP305-8.*
- Radiation converter; Ultraviolet averaging sphere; Ultraviolet visible converter; Averaging sphere; Averaging ultraviolet and visible light; *U.S. Patent 3,968,363. SP305-8.*
- Radiation curing; Radiation processing; Radiochromic dye; Thin films; Dose distributions; Dosimetry; Dye dosimeter; Electron beams; *14957. SP305-7.*
- Radiation damage; Color centers; Magnesium fluoride; *95. SP305-1.*
- Radiation damage; Dislocation loops; Electron microscope; Magnesium fluoride; Point defects; Precipitation; *95. SP305-1.*
- Radiation damage; Radiation effects; Silicon; Electrons; Lithium-drifted silicon detector; Neutrons; Protons; *1271. SP305-4.*
- Radiation damage; Radiation effects; Digital bipolar circuits; Integrated injection logic; *16180. SP305-8.*
- Radiation damage; Radiation testing; *SP336, pp. 525-53. SP305-3.*
- Radiation damage; Reactor materials; Ceramics; Lattice defects; Nuclear fuels; Nuclear science and technology; *M28. SP305.*
- Radiation damage; Ruby; Aluminum oxide; Chromium; Color centers; Magnetic susceptibility; *13931. SP305-6.*
- Radiation damage; Ruby; Concentration determination; Magnetic susceptibility; Optical absorption coefficient; *1234. SP305-3.*
- Radiation damage; Solid state polymerization; Trioxane; Electret domains; Polyoxymethylene crystals; *13876. SP305-6.*
- Radiation damage; Sputtering; Figuring; Ion-beams; Optical surfaces; Polishing; *SP348, pp. 155-168. SP305-4.*
- Radiation damage; Thermal neutrons; Kossel diffraction; Lattice expansion; LiF; NBS reactor; *15346. SP305-7.*
- Radiation damage; X-ray topography; Microstructure; Paraffin crystals; Plastic deformation; Polymer crystals; *1543. SP305-7.*
- Radiation damage to polymers; Electron collection efficiency; Electron microscope exposure meters; Logarithmic piconometer; Polymer crystals; Polymer electron microscope; *13216. SP305-5.*
- Radiation detection; Accuracy; Errors in activation analysis; Precision; *15472. SP305-7.*
- Radiation detection; Radiation detectors; Semiconductor devices; Silicon; X rays; Dosimetry; Gamma ray photodiodes; Photo voltaic effects; *11114. SP305-2.*

- tion detection devices; Radiation detectors; Radiation monitoring; Semiconducting devices; Silicon; X rays; Dosimetry; Exposure rate measurements; Gamma rays; 152. **SP305-1.**
- tion detector; Radiation dosimetry; Silicon radiation detector; Temperature dependence; X rays; Gamma rays; Photocurrents; Radiation; *J75A No. 6, 579-589 (1971).* **SP305-3.**
- tion detectors; Germanium; Lithium ion mobility; 11121. **SP305-2.**
- tion detectors; Radiation monitoring; Semiconducting devices; Silicon; X rays; Dosimetry; Exposure rate measurements; Gamma rays; Radiation detection devices; 10052. **SP305-1.**
- tion detectors; Radiochemical separation; Activation analysis; Applications; Archaeology; Biology; Charged particles; Computation; Conference; Criminology; Data handling; Chemistry; Industry; Neutron; Nuclear reactions; *SP312, Tables I and II.* **SP305-1.**
- tion detectors; Semiconducting devices; Silicon; X rays; Dosimetry; Gamma rays; Photodiodes; Photovoltaic effects; Radiation detection; 11114. **SP305-2.**
- tion detectors; Superconductors; Cryogenics; Infrared; p-n junctions; Lasers; 16458. **SP305-8.**
- tion dosimeter; Radiation dosimetry; Spectrophotometry; Spectrophotometric measurements; Chemical dosimeter; Chemical dosimeter; Ferrous sulfate; Ferrous sulfate dosimeter; Ferric ions; Fricke dosimeter; 12174. **SP305-3.**
- tion dosimetry; Absorbed energy; Depth dose; Electron energy deposition; 12696. **SP305-4.**
- tion dosimetry; Radiation quality; Radiation transport theory; Absorbed dose distribution; Electrons; Heavy ions; Interpretation of measurements; Neutrons; Pions; Protons; 1331. **SP305-5.**
- tion dosimetry; Radiochromic dyes; Absorbed dose rate; Dose; Dose distribution; Dye films; Electron beams; Optical cell; Pulse radiolysis; 15277. **SP305-7.**
- tion dosimetry; Radiochromic dyes; Absorbed dose rate; Dosimetry; Chemical dosimetry; Electron beams; Gamma radiation; 15482. **SP305-7.**
- tion dosimetry; Silicon radiation detector; Temperature dependence; X rays; Gamma rays; Photocurrents; Radiation; Radiation detector; *J75A No. 6, 579-589 (1971).* **SP305-3.**
- tion dosimetry; Spectrophotometry; Spectrophotometric measurements; Chemical dosimeter; Chemical dosimetry, ferrous sulfate; Ferrous sulfate dosimeter; Ferric ions; Fricke dosimeter; Radiation dosimetry; 12174. **SP305-3.**
- tion effect; Radiation intensity; Recovery; Solubility; Rate simulation; Temperature effect; Tests; Viscosity; Electron damage; Electron energy; Electron spin resonance; Gelation; Gel; Mechanical properties; *SP336, pp. 323-344.* **SP305-3.**
- tion effect; Semiconductor; Silicon; Detector; Proton; 474. **SP305-1.**
- tion effect; Semiconductor; Silicon; Detector; Proton; 881. **SP305-2.**
- tion effect standards; Radioactivity standards; Standards for nuclear chemistry; Standards for nuclear technology; Activation analysis standards; Isotope reference standards; Nuclear fuel burn-up standards; *SP310.* **SP305-1.**
- tion effects; Chemical activation; Degradation; Ionization; 743. **SP305-1.**
- tion effects; Digital bipolar circuits; Integrated injection logic; Radiation damage; 16180. **SP305-8.**
- tion effects; Radiation hardening; Test patterns; Test structures; Hardened integrated circuits; Integrated circuits; *BSIR 76-1093.* **SP305-8.**
- tion effects; Radioactive; Research Reactor; Thermal neutron; Converter tube; Fast neutron; NSBR; Pile reactivity; 66. **SP305-1.**
- Radiation effects; Refractive index; Optical glasses; 9358. **SP305.**
- Radiation effects; Resonant cavity; Rhesus; Suppression; Behavior; Behavioral suppression; Exposure; Microwave radiation; Microwaves; Product safety; Radiation; 15194. **SP305-7.**
- Radiation effects; Silicon; Electrons; Lithium-drifted silicon detector; Neutrons; Protons; Radiation damage; 12782. **SP305-4.**
- Radiation effects; Transistors; Delay time; Measurement errors; 14546. **SP305-6.**
- Radiation emission; Resonant tunnel junction; Junction array; 13169. **SP305-5.**
- Radiation error; Resistance thermometer; Temperature measurement; Thermistor; Thermocouple; Conduction error; *BSS26.* **SP305-2.**
- Radiation exposure; Radiation hazards; 10441. **SP305-1.**
- Radiation exposure; Radiation measurement; Radiation protection; *SP456, pp. 5-11 (Nov. 1976).* **SP305-8.**
- Radiation field; Atomic beam; Cesium beam; Frequency shifts; Frequency standards; 9769. **SP305-1.**
- Radiation field; Resonance; Thallium; Atomic beam; Frequency shift; *TN346.* **SP305.**
- Radiation field; State parameters; Stellar atmosphere; Thermodynamic equilibrium; Collisional processes; LTE; 10957. **SP305-2.**
- Radiation field; State parameters; Stellar atmosphere; Thermodynamic equilibrium; Collisional processes; LTE; 10958. **SP305-2.**
- Radiation grafting; Antimony oxide; Bromine; Bromine flame retardants; Calorimetry; Cotton; Cotton/polyester; ETIP; Fabric flammability; Flame retardant mechanisms; Flame retardant monomers; Flame retardants; Hand modifiers; *NBS-GCR-ETIP 76-22.* **SP305-8.**
- Radiation grafting; Research consortia; Cotton polyester blends; ETIP; Flame retardants; Flammability; R&D contracting; *NBS-GCR-ETIP 75-01.* **SP305-8.**
- Radiation hardening; Strain aging; Yield stress; Annealing; Impurities; Iron; 11449. **SP305-2.**
- Radiation hardening; Test patterns; Test structures; Hardened integrated circuits; Integrated circuits; Radiation effects; *NBSIR 76-1093.* **SP305-8.**
- Radiation hardness; Receivers; Schottky-barrier diodes; Semiconductors; Solid-state devices; X-band measurements; Diodes; Gamma rays; Hardness assurance; Microwave mixer diodes; Mixers; Neutrons; *SP400-7.* **SP305-8.**
- Radiation hazards; Radiation exposure; 10441. **SP305-1.**
- Radiation heat transfer; Spacecraft tankage; Stratification; Supercritical storage; Two-phase flow; Zero gravity; Boiling heat transfer; Bubble dynamics; Cavitation; Condensing heat transfer; Correlations; Cryogenic fluid safety; Fluid dynamics; 13242. **SP305-5.**
- Radiation heating; Vapor pressures;  $\text{AlO}_2$ ;  $\text{Al}_2\text{O}_3$ ; Emissivity; Evaporation coefficient; Langmuir vaporization; Optical pyrometry; 16540. **SP305-8.**
- Radiation imaging; Radiation measurements; Calorimetry; Depth dose; Dose distributions; Dosimetry; Electron beams; Holographic interferometry; Holography; Isodose; 15529. **SP305-7.**
- Radiation induced polymerization; Radiation intensity; Activation enthalpy; Hexafluoropropylene; High pressure; Intrinsic viscosity; 9257. **SP305.**
- Radiation installations; Radiation safety; X-ray equipment; Gamma-ray equipment; *H114.* **SP305-7.**
- Radiation instruments; Calibration; Manganous sulfate; Neutron source; *SP456, pp. 87-89 (Nov. 1976).* **SP305-8.**
- Radiation intensity; Activation enthalpy; Hexafluoropropylene; High pressure; Intrinsic viscosity; Radiation induced polymerization; 9257. **SP305.**

- Radiation intensity; Recovery; Solubility; Space simulation; Temperature effect; Tests; Viscosity; Electron damage; Electron energy; Electron spin resonance; Evaluation; Gel; Mechanical properties; Optical properties; Plastic films; *SP336*, pp. 323-344. **SP305-3.**
- Radiation measurement; Radiation processing; Radiation sterilization; Radiochromic dyes; Red Perspex; Sterility control; Dosimetry; Electron beams; Gamma rays; Physical measurements; Quality control; *16648*. **SP305-8.**
- Radiation measurement; Radiation protection; Radiation exposure; *SP456*, pp. 5-11 (Nov. 1976). **SP305-8.**
- Radiation measurement; Radiation therapy; Tumor dose; Quality control; Medical physicist; *SP456*, pp. 111-118 (Nov. 1976). **SP305-8.**
- Radiation measurement; Radiation transport; Cavity theory; Dosimetry; Fano theorem; Ionization chambers; *15169*. **SP305-7.**
- Radiation measurement; Refractive index; Temperature measurement; Calorimeter; Dosimetry; Electron beam; Interferometer; Radiation chemical kinetics; *15619*. **SP305-7.**
- Radiation measurement assurance; Radiation standards; Mobile laboratory; Radiation calibrations; Radiation control; *SP456*, pp. 47-51 (Nov. 1976). **SP305-8.**
- Radiation measurement standards; Radiation power; Radiation processing; X rays; Electrons; Nuclear physics; Particle accelerators; *9852*. **SP305-1.**
- Radiation measurements; Calorimetry; Depth dose; Dose distributions; Dosimetry; Electron beams; Holographic interferometry; Holography; Isodose; Radiation imaging; *15529*. **SP305-7.**
- Radiation measurements; Federal regulating agency; Food and Drug Administration; *SP456*, pp. 25-29 (Nov. 1976). **SP305-8.**
- Radiation measurements; Radiation protection; Standard; Accelerator design; Accelerator operation; Health physics; Particle accelerators; *H107*. **SP305-2.**
- Radiation measurements; Test patterns; Choice of dosimeters; Electrons; Ferrous sulfate dosimeters; Medical applications; Performance criteria; Personnel monitoring; Photographic film; Photons; *14095*. **SP305-6.**
- Radiation monitoring; Semiconducting devices; Silicon; X rays; Dosimetry; Exposure rate measurements; Gamma rays; Radiation detection devices; Radiation detectors; *10052*. **SP305-1.**
- Radiation pathlength; Cuvette, spectrophotometry; Lightpath; Pathlength; Quartz, cuvette; *SP260-32*. **SP305-5.**
- Radiation pathlength; Cuvette, spectrophotometry; Lightpath; Pathlength; Quartz, cuvette; *14432*. **SP305-6.**
- Radiation pattern; Reflector; Yagi; Antenna; Director; Driven element; Gain; *TN688*. **SP305-8.**
- Radiation patterns; Super-gain antennas; Antenna arrays; Computed performance; End-free antenna arrays; *10089*. **SP305-1.**
- Radiation penetration; Biorthogonal function; Gamma-ray transport; Moment methods; Neutron transport; Polynomial representations; *J. 76B Nos. 3 and 4*, 91-108 (1972). **SP305-4.**
- Radiation physics; Electrons; Free ions; Ion yields; Liquid; Non-polar systems; Radiation chemistry; *NSRDS-NBS57*. **SP305-8.**
- Radiation physics; Radiation sterilization; Radiobiology; X rays; Dosimetry; Electrons; Gamma rays; Ionizing radiation; Microdosimetry; *14118*. **SP305-6.**
- Radiation power; Radiation processing; X rays; Electrons; Nuclear physics; Particle accelerators; Radiation measurement standards; *9852*. **SP305-1.**
- Radiation processing; Dose distribution; Dyes; Electron beams; Energy transfer; Films; Gamma radiation; High resolution; Molecular excitations; Radiation chemistry; *9909*. **SP305-1.**
- Radiation processing; Radiation sterilization; Radiochromic dyes; Red Perspex; Sterility control; Dosimetry; Electron beams; Gamma rays; Physical measurements; Quality control; Radiation measurement; *16648*. **SP305-8.**
- Radiation processing; Radiochromic dyes; Thin films; Dose distributions; Dosimetry; Dye dosimeters; Electron beam; Radiation curing; *14957*. **SP305-7.**
- Radiation processing; Radiochromic dyes; Absorbed dose; Cellulose triacetate; Dosimetry; Dyed cellophane; D plastics; Electron beams; Gamma radiation; Plastic film; Polymethyl methacrylate; Polyvinyl chloride; *15278*. **SP305-7.**
- Radiation processing; X rays; Electrons; Nuclear physics; Particle accelerators; Radiation measurement standards; Radiation power; *9852*. **SP305-1.**
- Radiation properties; Reflectance; Spectral emittance; Specular reflectance; Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; *TN292*. **SP305.**
- Radiation properties; Reflectance; Spectral emittance; Specular reflectance; Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; *10017*. **SP305-1.**
- Radiation protection; Radiation exposure; Radiation measurement; *SP456*, pp. 5-11 (Nov. 1976). **SP305-8.**
- Radiation protection; Standard; Accelerator design; Accelerator operation; Health physics; Particle accelerators; Radiation measurements; *H107*. **SP305-2.**
- Radiation pyrometry; Temperature; Thermometry; Thermocouples; Thermistors; Resistance thermometer; *Mono. 27, Supplement 2*. **SP305.**
- Radiation pyrometry; Temperature measurement; Thermistors; Thermocouple; Thermometry; Fluidic thermometer; Pyrometry; *FP373*. **SP305-4.**
- Radiation quality; Radiation quantity; Electron temperature; Line-blanking; Mechanical heating; *12097*. **SP305-3.**
- Radiation quality; Radiation transport theory; Absorbed dose distribution; Electrons; Heavy ions; Interpretation of measurements; Neutrons; Pions; Protons; Radiation dosimetry; *13331*. **SP305-5.**
- Radiation quality; Secondary particle spectra; Theoretical dosimetry; Energy deposition spectra; Microdosimetry; Neutron interactions with tissue; Neutrons; *16182*. **SP305-4.**
- Radiation quantities; Radiation shielding; Radiation units; Definitions; Glossary; *12860*. **SP305-4.**
- Radiation quantity; Electron temperature; Line-blanking; Mechanical heating; Radiation quality; *12097*. **SP305-3.**
- Radiation resistance; Rectangular coax; Shielded strip line; TEM cell; EMC measurements; *NBSIR 75-829*. **SP305-8.**
- Radiation resistance; TEM cells; Measurements; Radiated emission; *16469*. **SP305-8.**
- Radiation safety; Radiation therapy (ultrasonic); Ultrasonic; Electroacoustics; Medical diagnostics; *NBSIR 75-937*. **SP305-8.**
- Radiation safety; Radiography; Voluntary standards; X rays; *13482*. **SP305-5.**
- Radiation safety; Standards laboratory; Synchrotron; Building collapse; Corrosion; Energy; Environmental; Frequency standards; Hearing aids; High-rise buildings; Metals; *DIM/NBS 60*, No. 5, 1-24 (1976). **SP305-8.**
- Radiation safety; X-ray equipment; Gamma-ray equipment; Radiation installations; *H114*. **SP305-7.**
- Radiation safety; X-rays; Diffraction; Fluorescence analysis; *12484*. **SP305-4.**
- Radiation safety; X-ray equipment; *H111*. **SP305-4.**
- Radiation scattering; Spectral line; Doppler broadening; Non-coherent scattering; *11335*. **SP305-2.**
- Radiation shield; Temperature gradient; X-ray; Attachment; low-temperature; *15242*. **SP305-7.**



Radiation shielding; Effects of nuclear weapons; Fission products; gamma rays; Gamma ray penetration; Initial nuclear radiation; Neutron penetration; *15056. SP305-7.*  
 Radiation shielding; Radiation units; Definitions; Glossary; Radiation quantities; *12860. SP305-4.*  
 Radiation shielding; Structures; Fallout protection in structures; *106. SP305-1.*  
 Radiation simulation; RTG; Test; Evaluation; MOSFETS; Electrons;  $\text{P}^{32}$ ;  $\text{Be}$ ; *SP336*, pp. 129-140. **SP305-3.**  
 Radiation sound; Sound waves; Earthquakes, radiation sound; Atmospheric motions; *9225. SP305.*  
 Radiation source; Radioactive; Radioluminous products; Self-luminous sources; Test procedures; Classification; Containment; Designation; Light sources; National standard; *1116. SP305-8.*  
 Radiation standard; Absorbed dose; Calorimeter; Dosimetry; Electrons; Ionization chamber; *15471. SP305-7.*  
 Radiation standard; Radiometric calibrations; Vacuum ultraviolet; Hydrogen arc plasma; *13877. SP305-6.*  
 Radiation standards; Mobile laboratory; Radiation calibrations; Radiation control; Radiation measurement assurance; *SP456*, pp. 47-51 (Nov. 1976). **SP305-8.**  
 Radiation sterilization; Radiobiology; X rays; Dosimetry; Electrons; Gamma rays; Ionizing radiation; Microdosimetry; Radiation physics; *14118. SP305-6.*  
 Radiation sterilization; Radiochromic dyes; Red Perspex; Dosimetry control; Dosimetry; Electron beams; Gamma rays; Physical measurements; Quality control; Radiation measurement; Radiation processing; *16648. SP305-8.*  
 Radiation sterilization; Solid-state detectors; Spectrophotometry; Dose distribution; Dosimetry; Dyes; Electron beams; Gamma rays; Glasses; Plastics; Radiation chemistry; *734. SP305-7.*  
 Radiation tail; Transverse; Electroexcitation; Energy dependent potential; Goldhaber-Teller model; Longitudinal; Matrix elements; Momentum transfer; Particle-hole model; Quasi-elastic model; *12853. SP305-4.*  
 Radiation testing; Radiation damage; *SP336*, pp. 525-534. **SP305-3.**  
 Radiation therapy; Service; Dosimetry; Electrons; Impact; Improvement; Performance; *SP456*, pp. 365-370 (Nov. 1976). **SP305-8.**  
 Radiation therapy; Tumor dose; Quality control; Medical physicist; Radiation measurement; *SP456*, pp. 111-118 (Nov. 1976). **SP305-8.**  
 Radiation therapy (ultrasonic); Ultrasonics; Electroacoustics; Medical diagnostics; Radiation safety; *NBSIR 75-937. SP305.*  
 Radiation thermometry; Standards; Temperature; Infrared pyrometer; International Practical Temperature Scale; Optical pyrometer; *9343. SP305.*  
 Radiation thermometry; Temperature measurement; Temperature scales; Temperature uncertainties; Thermodynamic temperature scales; Acoustical thermometry; Black-body radiation; Gas thermometry; Kirchhoff's law; Magnetic thermometry; "noise" thermometry; *10613. SP305-1.*  
 Radiation thermometry; Temperature measurement; Optical thermometry; Pyrometry; *9857. SP305-1.*  
 Radiation transfer; Redistribution function; Spectral line; Non-coherent scattering; *10993. SP305-2.*  
 Radiation transfer; Reflectance; Scattering; Spectrophotometry; Transmittance; Accuracy; Appearance; Colorimetry; Definition of spectrophotometry; Error analysis; Photometry; *NS94-9. SP305-6.*  
 Radiation transfer; Uniqueness of solutions; Contractivity; Existence of solutions; Integral equations; Interreflections; *4238. SP305-6.*  
 Radiation transport; Atmosphere; Aurora; Electron; Energy deposition; Monte Carlo; *11720. SP305-2.*

- Radiative capture; Response functions; Sodium iodide detector; California; Gamma rays; Neutrons; 13026. SP305-4.
- Radiative cooling; Roofing; Solar heating; Surface temperature; Built-up roofing; Insulation; Performance; NBSIR 76-987. SP305-8.
- Radiative cooling; Roofing, built-up; Deterioration; Insulation; 9172. SP305.
- Radiative cooling; Roofing research; Solar heating; Liquid-applied coatings; Membrane movements; Prefabricated sheets; 9432. SP305.
- Radiative cooling; Solar heating; Built-up roofing; Deterioration insulation; 9249. SP305.
- Radiative correction; Anomalous moment; Back scattering; Electron; 11801. SP305-3.
- Radiative corrections; Corrections, radiative; Electron scattering; Essential elements; 11394. SP305-2.
- Radiative corrections; Radiative tail; Electron scattering; Inelastic scattering; Muon scattering; 10400. SP305-1.
- Radiative deexcitation; Ultraviolet spectra; Quantum mechanics; Band strengths; Continuum emission; DeBroglie wavelength; Diatomic molecule; He<sub>2</sub>; Helium isotopes; 10283. SP305-1.
- Radiative energy loss; Radiative transfer; Spectral line profiles; Spherically symmetric gas clouds; Stellar atmospheres; 14419. SP305-6.
- Radiative equilibrium; Special functions; Transport problems; Diffusion theory; Exponential integral; Indefinite integrals; Quantum mechanics; J73B No. 3, 191-210 (1969). SP305-1.
- Radiative heat transfer; Combustion products; Full-scale fire; NBSIR 74-596. SP305-7.
- Radiative heat transfer; Corridor; Fire spread; Flashover; Floor covering; 15410. SP305-7.
- Radiative lifetime; Ca<sup>4</sup>P<sub>3/2</sub> state; Collisional depolarization; Hanle effect; Mg<sup>3</sup>P<sub>3/2</sub> state; 10080. SP305-1.
- Radiative lifetimes; Calcium oxide; Color centres; F-centres; Luminescence; Optical absorption; 11588. SP305-2.
- Radiative lifetimes; Spectroscopy; Atomic spectra; Energy levels; Iron; Iron, lifetimes in; Lifetimes in Fe I; J71A6-472, 567-573 (1967). SP305.
- Radiative lifetimes; Spin uncoupling; Vibration-rotation interaction; Vibrational transitions; Einstein coefficients; Line strengths; Meinel bands; Molecular spectra; OH; 14767. SP305-7.
- Radiative process; Two electron processes; X-ray L<sub>α</sub> emission; Argon; Configuration interaction; KCl; 12692. SP305-4.
- Radiative rates; Rare earths; Silicate glasses; Europium; Fluorescence; Lifetimes; Luminescence; Nonradiative rates; Oscillator strengths; Quantum efficiencies; 14276. SP305-6.
- Radiative recombination; Band pinch effect; Band tailing; Fermi level; GaAs laser; Internal quantum efficiency; 10724. SP305-1.
- Radiative recombination; Compensated GaAs; Epitaxial GaAs lasers; Fermi levels; 9518. SP305.
- Radiative recombination; Reaction barrier; Hartree-Fock; HNO<sup>+</sup>(A', <sup>3</sup>A", <sup>1</sup>A'); Interaction energy; Ionic state; J73A No. 2, 191-193 (1969). SP305-1.
- Radiative recombination; Ruby laser; Silicon; Stimulated emission; GaAs laser; Laser pulse shapes; Lifetime; Optical pumping; 10133. SP305-1.
- Radiative recombination; Ruby laser; Temperature dependence; GaAs; Quantum efficiency; 10244. SP305-1.
- Radiative recombination; Silicon; Space charge regions; Gallium arsenide; Germanium; P-n junctions; 9519. SP305.
- Radiative recombination; Temperature dependence; Valence band; Band filling; Band tailing; GaAs; Gallium arsenide; Internal quantum efficiency; Lasers; 11790. SP305-2.
- Radiative recombination; Temperature dependence; Valence band; Band tailing; GaAs lasers; Non-radiative recombination centers; 11791. SP305-2.
- Radiative recombination;  $\Sigma_u^+$ ; Electronic structure; Energy curve; N<sub>2</sub>; Predissociation; 16442. SP305-8.
- Radiative tail; Electron scattering; Inelastic scattering; M scattering; Radiative corrections; 10400. SP305-1.
- Radiative tails; Resolution; Spectrometer design; Background; Current monitoring; Detector ladders; Electron scatter; Experimental techniques; Line-shape fitting; On-line computer systems; TN523. SP305-2.
- Radiative tails; Resonance weak coupling; <sup>12</sup>C, <sup>13</sup>C; Continuum spectra; Efficiencies; Fine structure; Giant resonance; Isospin splitting; Pygmy; Pygmy resonance; 12929. SP305-4.
- Radiative transfer; Atmospheres, stellar; Atomic and molecular processes; Line formation; 15723. SP305-8.
- Radiative transfer; Atomic abundances; CN spectra; Non-linear molecular spectra; Photospheres, stellar; 15418. SP305-7.
- Radiative transfer; Laser action; SP332, pp. 134-137. SP305.
- Radiative transfer; Rayleigh scattering; Spherical geometry; Stellar atmospheres; Polarized radiation; 12640. SP305-4.
- Radiative transfer; Reflectance spectra; Scattering coefficients; Statistical models; Absolute absorptivities; Continuum models; Diffuse reflectance; J. Res. 80A No. 4, 567-573 (1976). SP305-8.
- Radiative transfer; Relativistic effects; Spectral line formation; Stellar atmospheres; 16272. SP305-8.
- Radiative transfer; Solar active regions; Solar chromosphere; Spectral line formation; 14863. SP305-7.
- Radiative transfer; Solar chromosphere; Solar photosphere; Solar ultraviolet spectrum; 12657. SP305-8.
- Radiative transfer; Solar chromosphere; Spectral line formation; Helium; 16609. SP305-8.
- Radiative transfer; Solar corona; Spectroscopic diagnostics; optically thin line emission; 12924. SP305-4.
- Radiative transfer; Solar corona; Spectroscopic diagnostics; optically thin line emission; 12925. SP305-4.
- Radiative transfer; Solar corona; Spectroscopic diagnostics; optically thin line emission; 12926. SP305-4.
- Radiative transfer; Solar flares; Chromosphere, sun; Photosphere, sun; 15286. SP305-7.
- Radiative transfer; Spectral line; Thermalization length; Non-coherent scattering; 14444. SP305-2.
- Radiative transfer; Spectral line formation; Spherical geometry; Early-type stars; Model atmospheres; 13688. SP305-5.
- Radiative transfer; Spectral line formation; Spherical geometry; Stellar atmospheres; Moving atmospheres; SP332, pp. 118. SP305-2.
- Radiative transfer; Spectral line formation; Stellar atmosphere; Astrophysics; Early-type stars; 14751. SP305-7.
- Radiative transfer; Spectral line formation; Stellar atmosphere; Astrophysics; Energy loss; 15489. SP305-7.
- Radiative transfer; Spectral line profiles; Stellar atmosphere; Gas dynamics; 14418. SP305-6.
- Radiative transfer; Spectral line profiles; Spherically symmetric gas clouds; Stellar atmospheres; Radiative energy loss; 14418. SP305-6.
- Radiative transfer; Spectral line profiles; Diffusion; Excitation exchange; 15714. SP305-8.
- Radiative transfer; Spectral lines; Transfer equation; Plasma diagnostics; Radiating gases; 13236. SP305-5.
- Radiative transfer; Spectral lines; Velocity fields; Planetary nebulae; 10994. SP305-2.
- Radiative transfer; Stars; Chromospheres; Line formation; 16052. SP305-8.
- Radiative transfer; Stellar atmospheres; Astrophysics; Energy loss; O-stars; 14144. SP305-6.
- Radiative transfer; Velocity gradients; Balmer lines; Lyman continuum; Non-coherent scattering; Optical depth; Planetary nebulae; 10755. SP305-1.
- Radiative transfer in inhomogeneous media; Line formation in multi-dimensional media; Matrix methods for integro-differential equations; 10755. SP305-1.

ental operators; Numerical methods in transfer; *SP332*, 138170. **SP305-2**.  
 ative transfer media; Riccati method; Spectral line formation; Variable-property media; Doppler width; 10707. **SP305-3**.  
 ative transfer—stars; Winds; 15824. **SP305-8**.  
 ative transition probabilities; Spectra; Atomic physics; Atomic structure; Oscillator strengths; 14768. **SP305-7**.  
 ative transport; Solar chromosphere; Solar spectrum; Sunspots; Wilson-Bappu effect; Ca H and K lines; Non-LTE line formation; Plages; 12106. **SP305-3**.  
 ative-control; Temperature-control-bracket; Boundary temperature; Collisional-control; Non-LTE; 12360. **SP305-3**.  
 atively controlled lines; Contrasts in emergent intensity; 948. **SP305-7**.  
 ator, piston; Sound; Acoustics; Diffraction, potential; piston radiator; Potential diffraction; 9319. **SP305**.  
 ator ratings; Radiator sizes; Cast iron radiators; Radiators, cast iron; *SPR174-65*. **SP305**.  
 ator sizes; Cast iron radiators; Radiators, cast iron; Radiator ratings; *SPR174-65*. **SP305**.  
 ators, cast iron; Radiator ratings; Radiator sizes; Cast iron ratings; *SPR174-65*. **SP305**.  
 al; Aromatic; Azines; Cleavage; Complex; Nitrogen paramagnetic; Periodic acid; 12095. **SP305-3**.  
 al; Diffusion-controlled reaction; Electron spin resonance; radiation; Kinetics of intermediates; Polyamide; 9859. **SP305-1**.  
 al; Doublet; Infrared; Isotope; Matrix; Photolysis; 10500. **SP305-1**.  
 al; Rate constant; Absorption spectroscopy; Combination; number; Methyl; 13915. **SP305-6**.  
 al; Rate constant; Singlet; Triplet; Inorganics; Methylene; 9701. **SP305-6**.  
 al; Reagent; Determination; Electron-transfer; Inosose; oxidation; Quantitative; 12151. **SP305-3**.  
 al; Transition probability; Einstein A coefficient; Hydroxyl; 9891. **SP305-1**.  
 al center; Triangle of reference; Area coordinates; distance coordinates; Plane Geometry; *J. 76B Nos. 3 and 4*, 45-152 (1972). **SP305-4**.  
 al formation; Tie molecules; Chain rupture; Crystalline polymer; ESR investigation of radicals; Fibrous structure; mechanical breakdown; Microfibrillar structure; 15476. **SP305-7**.  
 al isomerization; Surface effects in oxidation; Termination rates; Transition state for termination; Acetylene reaction with O<sub>3</sub>; Activation energy for oxidation; Chain lengths in oxidation; Elementary steps in oxidation; *SP357*, pp. 121-129. **SP305-4**.  
 al mechanisms; Unimolecular decomposition; Decomposition; Kinetics of decomposition; Molecular mechanisms; pyrolysis of hydrocarbons; *SP357*, pp. 7-15. **SP305-4**.  
 al reactions; Rate constants; Reference data; Abstraction reactions; Addition reactions; Aqueous solution; Biological molecules; Electron transfer reactions; Hydroxyl radical; Oxide radical ion; *NSRDS-NBS46*. **SP305-5**.  
 al reactions; Rate constants; Atom reactions; Compilation; Critical evaluation; Gas phase reactions; *COM-72-0014*. **SP305-4**.  
 al reactions; Rate constants; Review; Sulfur chemistry; Tables; Activation energies; Evaluation; Gaseous reactions; *J. Phys. Chem. Ref. Data* 2, No. 1, 25-84 (1973). **SP305-6**.  
 al scavenger; Radiolysis; Free radicals; H<sub>2</sub>S; Ion-molecular reactions; Photolysis; Propane; 9544. **SP305-1**.  
 al scavenging; Vacuum ultraviolet photolysis; Equipartition of energy; Hydrogen iodide; Methylene insertion reaction; Propane; 14492. **SP305-6**.  
 Radical scavenging; Vacuum ultraviolet photolysis; Alkane; Electronically excited molecule; Hydrogen iodide; N-butane; 14762. **SP305-7**.  
 Radical-anion; Bis(phenylhydrazine); E.s.r.; Glyoxal; Methyl sulfoxide; Oxygen; *J.75A No. 6*, 573-577 (1971). **SP305-3**.  
 Radicals; Bond rupture; Chain rupture; ESR; Fibrils; Load-elongation curve; Microcracks; Microfibrils; 15555. **SP305-7**.  
 Radicals; CH<sub>3</sub>; Flames; H; Mass spectrometry; OH; 13672. **SP305-5**.  
 Radicals; Flames; Laser excitation; Mass spectrometry; 15243. **SP305-7**.  
 Radicals; Rate constant; Combination; Flash photolysis-gas chromatography; Methyl; Methylene; 15205. **SP305-7**.  
 Radicals; Rydberg levels; Vacuum monochromators; Autoionization; Electronic; Excited states; H<sub>2</sub>O<sup>+</sup>; NH<sub>3</sub><sup>+</sup>; NH<sub>4</sub><sup>+</sup>; OH<sup>+</sup> ions; Heats of formation; Ionization thresholds; *J.75A6-417*, 459-463 (1966). **SP305**.  
 Radicals; Rydberg series; Vacuum ultraviolet; Autoionization; CO<sub>2</sub>; COS; CS<sub>2</sub>; Electronic; Excited states; Heats of formation; Ionization thresholds; Ions; Mass spectrometry; O<sub>2</sub>; Photoionization; 10274. **SP305-1**.  
 Radicals; Vacuum ultraviolet; BCl<sub>3</sub>; Bond dissociation energies; B<sub>2</sub>Cl<sub>4</sub>; Heats of formation; Ions; Mass spectrometry; 10900. **SP305-2**.  
 Radicals; Vacuum ultraviolet; Enthalpy of formation; Ions; Mass spectrometry; Methyl; Methylene; Photoionization; 15351. **SP305-7**.  
 Radii; Sum rule; Correlations; Electric dipole; Isospin; Photoneuclear; 11415. **SP305-2**.  
 Radii; Sum rule; Tritium; Helium-3; Isospin; Photoneuclear; 11416. **SP305-2**.  
 Radii of gyration; Second virial coefficients; Configuration; Conformation; Kratky-Porod model; Light scattering; Osmotic pressure; Poly(*n*-alkyl isocyanates); 12355. **SP305-3**.  
 Radii of gyration; Theta point; Excluded volume; Monte Carlo; Polymer solution; 14020. **SP305-6**.  
 Radio; Radio frequency; Accuracy; Calibration; IEEE; Measurements; 11199. **SP305-2**.  
 Radio; Reflection coefficients; Sky waves; Absorption; Antennas; Broadcasting; Ground waves; Ionosphere; Medium frequency; Polarization; Propagation; 9551. **SP305-1**.  
 Radio; Search; Comet; HCN; HC<sub>3</sub>N; Kohoutek; OH; 15262. **SP305-7**.  
 Radio; Standards; International Scientific Radio Union (URSI); Measurements; 10243. **SP305-1**.  
 Radio astronomy; Chemical analysis; Dipole moment; Microwave; Molecular structure; 13427. **SP305-5**.  
 Radio astronomy; Dimethyl ether; Internal motion; Interstellar molecules; Orion; 15365. **SP305-7**.  
 Radio astronomy; Emission line; Interstellar medium; Laboratory measurement; Methyl alcohol; Population inversion; 15994. **SP305-8**.  
 Radio astronomy; Isocyanic acid; Interstellar molecules; Microwave spectra; Molecular parameters; Rotational transitions; *JPCRD* 5, No. 1, 79-102 (1976). **SP305-8**.  
 Radio astronomy; Rotational spectrum; Formyl ion; Interstellar molecules; Microwave emission; Molecular structure; 16560. **SP305-8**.  
 Radio astronomy; Rotational transitions; Cyanoacetylene; Hyperfine structure; Interstellar microwave emission; Laboratory microwave spectrum; 12501. **SP305-4**.  
 Radio astronomy; Rotational transitions; Hydrogen sulfide; Hyperfine structure; Interstellar molecules; Microwave spectra; Molecular parameters; *J. Phys. Chem. Ref. Data* 2, No. 2, 215-223 (1973). **SP305-6**.  
 Radio astronomy; Rotational transitions; Telescope search; Fulvene; Interstellar molecules; Nitric acid; 14403. **SP305-6**.  
 Radio astronomy; Rotational transitions; Thioformaldehyde; Formaldehyde; Formamide; Interstellar molecules;

- Microwave spectra; Molecular parameters; *J. Phys. Chem. Ref. Data* 1, No. 4, 1011-1046 (1972). **SP305-6.**
- Radio astronomy; Rotational transitions; Hyperfine structure; Interstellar molecules; Methyleneimine; Microwave spectra; Molecular parameters; *J. Phys. Chem. Ref. Data* 2, No. 1, 1-10 (1973). **SP305-6.**
- Radio astronomy; Rotational transitions; Torsion; Internal rotation; Interstellar molecules; Methanol; Microwave spectra; Molecular parameters; *J. Phys. Chem. Ref. Data* 2, No. 2, 205-214 (1973). **SP305-6.**
- Radio astronomy; Rotational transitions; Water; Hyperfine structure; Interstellar molecules; Microwave spectra; Molecular parameters; *J. Phys. Chem. Ref. Data* 3, No. 1, 211-219 (1974). **SP305-6.**
- Radio astronomy; Rotational transitions; Spectra; Carbonyl sulfide; Hydrogen cyanide; Interstellar molecules; Microwave spectra; Molecular parameters; *J. Phys. Chem. Ref. Data* 3, No. 1, 221-244 (1974). **SP305-6.**
- Radio astronomy; Rotational transitions; Silicon monoxide; Carbon monosulfide; Carbon monoxide; Interstellar molecules; Microwave spectra; Molecular parameters; *J. Phys. Chem. Ref. Data* 3, No. 1, 245-257 (1974). **SP305-6.**
- Radio astronomy; Rotational transitions; Spectra; Sulfur monoxide; Interstellar molecules; Microwave spectra; Molecular parameters; *J. Phys. Chem. Ref. Data* 3, No. 1, 259-268 (1974). **SP305-6.**
- Radio astronomy; Rotational transitions; Acetaldehyde; Internal rotation; Interstellar molecules; Microwave spectrum; *JPCRD* 5, No. 1, 53-78 (1976). **SP305-8.**
- Radio astronomy; Rotational transitions; Silicon sulfide; Spectra; Interstellar molecules; Microwave spectra; *JPCRD* 5, No. 4, 1147-1156 (1976). **SP305-8.**
- Radio astronomy; Sagittarius B2; Ethyl alcohol; Interstellar chemistry; Molecular cloud; Molecular spectroscopy; *15001*. **SP305-7.**
- Radio astronomy; Saturation; Stimulated emission; OH microwave transition; *13353*. **SP305-5.**
- Radio astronomy; Short-lived molecules; Chemical monitoring and analysis; Double resonance; Microwave instrumentation; Microwave spectroscopy; *16400*. **SP305-8.**
- Radio astronomy; Silicon molecules; Structures; Unidentified molecular lines; Microwave spectra; Predicted spectra; *14867*. **SP305-7.**
- Radio astronomy; Silicon monoxide; Circular polarization; Maser; Orion; Pumping processes; *15004*. **SP305-7.**
- Radio astronomy; Sulfur dioxide; Interstellar; Microwave spectra; Molecules; Orion; *16434*. **SP305-8.**
- Radio astronomy; Sulfur monoxide; Zeeman effect; Dense molecular clouds; Magnetic field; Orion A; *14499*. **SP305-6.**
- Radio communications; Radio receivers; Transistors; Modulators; *TN100-A, Supplement to Appendix C of TN100*. **SP305.**
- Radio frequencies; Radio frequency measurements; Radio metrology; Visible radiation; Lasers; Radiation; *9567*. **SP305-1.**
- Radio frequencies; Starfish; Synchrotron radiation; Decay; Intensity; Magnetic equator; Observations; *10237*. **SP305-1.**
- Radio frequency; Accuracy; Calibration; IEEE; Measurements; Radio; *11199*. **SP305-2.**
- Radio frequency; Coaxial; Connectors; Immittance; Lumped-parameter; Measurement; Precision; *9815*. **SP305-1.**
- Radio frequency; Group theory; Inversion splitting; Methane; Molecular-beam data; Ortho-para transitions; *12323*. **SP305-3.**
- Radio frequency; Resistance; Standards; State of the art; Capacitance; Inductance; Impedance and admittance; Measurement; *9795*. **SP305-1.**
- Radio frequency; Resonance; Capacitance; Coaxial; High-Q; Immittance; Inductance; Measurement; *13097*. **SP305-5.**
- Radio frequency; Series elements; Two-port standards; Immittance measurement; *J74C Nos. 3 and 4, 79-85* (1974). **SP305-2.**
- Radio frequency; Total mass; Gauging; Hydrogen; Nitrogen; *13664*. **SP305-5.**
- Radio frequency; Total mass gauging; LOX storage container; *NBSIR 73-346*. **SP305-6.**
- Radio frequency; Uncertainties of measurement; Accuracy; Calibration services; Measurements; Measurement techniques; *TN373*. **SP305-1.**
- Radio frequency; Voltage measurements; Electrical measurements; *16519*. **SP305-8.**
- Radio frequency carrier; Transmitter; Audiofrequency modulation; Communications; Electromagnetic compatibility; Enforcement; Personal transmitter; Portable transmitter; *16285*. **SP305-8.**
- Radio frequency heating; Temperature measurement; Thermistor probe; High-resistance leads; *15803*. **SP305-8.**
- Radio frequency measurements; Radio metrology; Visible radiation; Lasers; Radiation; Radio frequencies; *9567*. **SP305-1.**
- Radio frequency measurements; Satellite timing; Spectral density; Standard frequency and time broadcasts; Statistical frequency and time measurements; Time scales; Time synchronizations; TV timing; VLF timing; Atomic beam; Atomic clocks; *SP300, Volume 5*. **SP305-4.**
- Radio frequency power; Coaxial; Flow calorimeter; *J71C2-111-117* (1967). **SP305.**
- Radio frequency power; Coaxial; Flow calorimeter; *9567*. **SP305-1.**
- Radio frequency power spectral density; Script  $I(f)$ ; Script  $S(f)$ ; Script  $I$ ; Sidebands; Signal stability; Spectral density; Amplitude fluctuations; Cross-spectral density; Frequency domain; Frequency noise; Modulation noise; *14028*. **SP305-6.**
- Radio frequency techniques; Range measurements; Laser metrology measurements; Laser measurements; Modulated laser beams; *10172*. **SP305-1.**
- Radio gas chromatographic analysis; Selective inhibition; Sensitivity; Self-inhibition; Thermal control; 1-butene; 2-butene; Concurrent reactions; Consecutive reactions; Controlled reaction; Conventional additive experiments; Cool-flame; *SP357*, pp. 111-117. **SP305-4.**
- Radio horizon; Satellite; Tropospheric scatter; *10976*. **SP305-1.**
- Radio materials measurement; Review of radio materials; Dielectric constant; Dielectric loss; Ferromagnetic resonance; Permeability; *9611*. **SP305-1.**
- Radio measurement methods; Radio measurement standards; Time standards; Coaxial connectors; Electromagnetic properties of materials; Frequency standards; Lasers; Microwave; *10013*. **SP305-1.**
- Radio measurement standards; Time standards; Coaxial connectors; Electromagnetic properties of materials; Frequency standards; Lasers; Microwave; *10013*. **SP305-1.**
- Radio measurements; International intercomparisons; *10013*. **SP305-1.**
- Radio measurements; Radio standards; URSI XVth General Assembly; International Scientific Radio Union Report; Measurement methods; *11487*. **SP305-2.**
- Radio metrology; Visible radiation; Lasers; Radiation; Radio frequencies; Radio frequency measurements; *9567*. **SP305-1.**
- Radio navigation; VOR; Aircraft navigation systems; Radio frequency synthesis; National standards; Precision radiofrequency signal generation; Precision FM signal generation; Precision phase angle generation; *16330*. **SP305-8.**
- Radio path-length variations; Refractive index; Water vapor density; Angular scatter; Atmospheric fine structure; Doppler; Radar returns; *10232*. **SP305-1.**



- lio positioning; Time dissemination; Time transfer system; Cyclan; Cytac; Loran; Loran-C; Low frequency; Navigation; Pulse propagation; *Monogr. 129. SP305-4.*
- lio propagation; Satellite time dissemination; Television time and frequency dissemination; Time-frequency; Time signal noise; System designs; Transfer standards; Automatic vehicle location; Dissemination of time and frequency; Portable clocks; *13433. SP305-5.*
- lio propagation; Satellite time dissemination; Television time and frequency dissemination; Time signal noise; Time-frequency system designs; Transfer standards; Dissemination of time and frequency; Portable clocks; *13435. SP305-5.*
- lio propagation; Time comparison; USNO; VLF propagation; WWVL; Effect of mass on frequency; Flicker noise; BS; Noise correlation; NSS; Optimum filter; Phase noise; *1241. SP305-2.*
- lio receivers; Transistors; Modulators; Radio communications; *TN100-A, Supplement 10 Appendix C of TN100. SP305.*
- lio service; World days service; *9189. SP305.*
- lio science; Satellites and space probes; Space and satellites; *233. SP305.*
- lio sounding; Satellite; Topsis; Aurora; Electrostatic wave; Ionosphere; Ionospheric ducting; Ionospheric irregularity; Ionospheric scattering; Plasma resonance; *9615. SP305-1.*
- lio standards; Electromagnetic measurement; National Measurement System; *10154. SP305-1.*
- lio standards; URSI XVIth General Assembly; International Scientific Radio Union Report; Measurement methods; Radio measurements; *11487. SP305-2.*
- lio Standards Laboratory; Reference data; Calibration; Cost-effectiveness; Data; Economic growth; Information centers; Measurements; Metrology; National Bureau of Standards; National Measurement System; *11036. SP305-2.*
- lio star; Accuracy; Antenna; Calibration; Cassiopeia A; Error analysis; Flux density; Ground station; G/T (system ant./system noise temperature); *NBSIR 75-822. SP305-7.*
- lio star; Accuracy; Antenna; Calibration; Cassiopeia A; Error analysis; Flux density; G/T (system gain/system noise temperature); Ground station; *16499. SP305-8.*
- lio star; Satellite communications; Antenna gain; G/T; *5660. SP305-7.*
- lio star; Satellite communications; Error analysis; G/T; Precision measurements; *NBSIR 76-842. SP305-8.*
- lio T/F dissemination; Rb frequency standards; Satellite T/F dissemination; Short-term stability; SI Units; TAI; Television T/F dissemination; Thallium beam standards; Time; Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; *Monogr. 140. SP305-6.*
- lio waves; Spread F; Frequency measuring technique; High frequency; Ionosonde technique; Propagation studies; *10241. SP305-1.*
- lio radioactive; Radioluminescent products; Self-luminous sources; Test procedures; Classification; Containment; Designation; Light sources; National standard; Radiation source; *11116. SP305-8.*
- lio radioactive; Rapid separation; Solvent extraction; Cerium; Linac; Praseodymium; Precipitation; *10387. SP305-1.*
- lio radioactive; Research Reactor; Thermal neutron; Converter tube; Fast neutron; NSBR; Pile reactivity; Radiation effects; *8866. SP305-1.*
- lio radioactive calorimetry; Radioactive standardization; Intercomparative measurements; Nickel-63; *14302. SP305-6.*
- lio radioactive carbohydrates; Synthesis of radioactive sugars; Carbon-14-labeled L-fucose; L-fuconic acid-1-<sup>14</sup>C; L-fucose-1-<sup>14</sup>C; *171A2-444, 133-136 (1967). SP305.*
- lio radioactive carbohydrates; Use of heavy papers in preparative chromatography; Chromatography on seed-test paper; Large-scale paper chromatography; *171A1-436, 49-52 (1967). SP305.*
- Radioactive cloud; Beta-rays; Depth-dose; Dosimetry; Electrons; Immersion problem; *13871. SP305-6.*
- Radioactive decay; Multichannel multiscaler analyzer; Poisson distribution; *10954. SP305-2.*
- Radioactive decay; Thermal conductivity; Heat conduction; Heat generation; Heat transfer; Neutron absorption; *J71C4-260, 293-298 (1967). SP305.*
- Radioactive effluents; Radioanalytical data; Regulations; Environmental samples, laboratories; Quality assurance; *SP456, pp. 249-261 (Nov. 1976). SP305-8.*
- Radioactive pollutants; Stratospheric air pollution; Water quality; Water pollution; Air pollution; Air quality; Auto emissions; Clean air and water; Environmental quality; Metal contaminants; Occupation-related air pollutants; Oil spills; *DIM/NBS 57, No. 10, 225-252 (1973). SP305-5.*
- Radioactive rare gases; Reduced activity; Argon-37; Atmospheric mixing; Blank corrections; Cosmic ray reactions; Effectively zero background; Environmental radioactivity; Low-level counting statistics; *16345. SP305-8.*
- Radioactive sources; Thermal neutrons; X rays; Calibration; Data processing; Evaluation; Gamma rays; Intercomparison; Performance; Personnel dosimetry; Phosphate glass; Photographic film; *10920. SP305-2.*
- Radioactive standardization; Intercomparative measurements; Nickel-63; Radioactive calorimetry; *14302. SP305-6.*
- Radioactive standardization; Tritium; Xenon-131m; Argon-37; Carbon-14; Internal gas counting; *14297. SP305-6.*
- Radioactive tracers; Anger positron camera, lung function; *SP425, pp. 469-471. SP305-7.*
- Radioactive tracers; Neutron activation analysis; Neutron gaging; Neutron radiography; Nondestructive evaluation; Nuclear; *15956. SP305-8.*
- Radioactive tracers; Radioisotope dilution; Substoichiometric; Trace analysis; Zinc spelter; Cadmium; Coulometry; Electrolysis; *10412. SP305-1.*
- Radioactive tracers; River water; Trace elements; Tracers; Water; Freeze drying; Instrumental neutron activation analysis; Lyophilization; Neutron activation analysis; Preconcentration; *15376. SP305-7.*
- Radioactivity; Activation analysis; Binomial and Poisson distributions; Chi-squared; Compound distributions; Dispersion test; *12843. SP305-4.*
- Radioactivity; Activation analysis; Analytical chemistry; Decision level; Detection limit; Determination limit; Hypothesis testing; Interference; Poisson distribution; *10333. SP305-1.*
- Radioactivity; Anti-coincidence; Anti-Compton; Gamma rays; Low level radioactivity; Multidimensional; *12886. SP305-4.*
- Radioactivity; Radionuclide; Radiostromion; Environment; Inter-calibration; Intercomparison; *TN875. SP305-7.*
- Radioactivity; Radiopharmaceutical; Standards; Traceability; Assurance; Measurement; *SP456, pp. 71-76 (Nov. 1976). SP305-8.*
- Radioactivity; Rate of charge measurement; 4 $\pi$  pressure ionization chamber; Half-life measurement; Isomeric decay; Isotope <sup>115m</sup>In; *15078. SP305-7.*
- Radioactivity; Reference methods; Calibration; Intercomparison studies; Quality assurance; Quality control; *SP456, pp. 263-265 (Nov. 1976). SP305-8.*
- Radioactivity; Relative yield; Gamma rays; Health physics; Linac; *10726. SP305-1.*
- Radioactivity; Resonance-levels; Afterheat; Blanket; Cross-section; Experiment; Fusion; *SP425, pp. 708-711. SP305-7.*
- Radioactivity; Sediment; Standard; X ray; Alpha particle; Beta particle; Gamma-ray; *15933. SP305-8.*
- Radioactivity; Selenium-75; Standardization; Coincidence counting; Gamma rays; Ground state decay; *15846. SP305-8.*
- Radioactivity; Standardization; <sup>129</sup>I; Beta; Coincidence counting; Gamma; *16259. SP305-8.*

- Radioactivity; Standards; Environment; Gamma-ray measurements; Ge(Li) detectors; *SP456*, pp. 173-179 (Nov. 1976). **SP305-8.**
- Radioactivity; Standards; Traceability; Intercomparisons; *14303*. **SP305-6.**
- Radioactivity; Transition probability; Gamma-ray energy; Half-life; Isomeric  $^{139}\text{Xe}$ ; *14412*. **SP305-6.**
- Radioactivity;  $^{109}\text{Cd}$ ; Measured *E<sub>y</sub>*; *10427*. **SP305-1.**
- Radioactivity and isotopic calculations; Recursion; Statistical calculations; Instruction list; Iteration; Memory register; Operational stack; Pop-up; Polish notation; Push-down; *13740*. **SP305-5.**
- Radioactivity detection systems; Radiochemical separations; Sampling and sample handling; Accuracy and precision; Activation analysis; Analytical design; Irradiation procedures; *SP422*, pp. 1143-1155 (Aug. 1976). **SP305-8.**
- Radioactivity intercomparisons; Steel; Aluminum; Anticoincidence shielding; Bovine liver assay; Copper; Low-level radioactivity; *14300*. **SP305-6.**
- Radioactivity measurements;  $4\pi$   $\beta$ - $\gamma$  coincidence counting;  $\gamma$ -ray intercomparator automatic sample changers; *14301*. **SP305-6.**
- Radioactivity monitors; Photonuclear experiments; *11877*. **SP305-3.**
- Radioactivity standardization; Cobalt-57; Coincidence counting; *9733*. **SP305-1.**
- Radioactivity standardization; Sodium-22; Sum coincidence counting; Yttrium-88; Aluminum-26; Bismuth-207; Cobalt-60; Niobium-94; *14299*. **SP305-6.**
- Radioactivity standardization; Xenon-133,  $^{131}\text{m}$ ; Argon-37; Direct standardization; Environmental radioactivity; Internal gas counters; Isotope separator; Krypton-85; Proportional counters; *15948*. **SP305-8.**
- Radioactivity standards; Half-life; Mass-spectrometry; Microcalorimetry; Ni-63 neutron capture cross-section; *12567*. **SP305-4.**
- Radioactivity standards; Standards accuracy; Certificates; Combination of errors; Commercial standards; Measurements; Precision; *9732*. **SP305-1.**
- Radioactivity standards; Standards for nuclear chemistry; Standards for nuclear technology; Activation analysis standards; Isotope reference standards; Nuclear fuel burn-up standards; Radiation effect standards; *SP310*. **SP305-1.**
- Radioactivity  $^{132}\text{Xe}$ ;  $\nu$  relative intensity; Enriched source; Ge(Li) detector; Measured  $T_{1/2}$ ; Pressured ionization chamber; *14812*. **SP305-7.**
- Radioactivity  $^{81}\text{Kr}$  [from (n, $\gamma$ )]; Deduced  $Q_{EC}$ , log  $f$ ,  $J$ ; enriched  $^{80}\text{Kr}$  target; Isotope separated sources; Measured L/K EC ratio; Multiwire proportional counter; *15197*. **SP305-7.**
- Radioanalytical data; Regulations; Environmental samples, laboratories; Quality assurance; Radioactive effluents; *SP456*, pp. 249-261 (Nov. 1976). **SP305-8.**
- Radiobiology; Transport calculations; Depth dose; Dosimetry; Ionization chambers; Pions; *13190*. **SP305-5.**
- Radiobiology; X rays; Dosimetry; Electrons; Gamma rays; Ionizing radiation; Microdosimetry; Radiation physics; Radiation sterilization; *14118*. **SP305-6.**
- Radiocarbon dating; Statistical limitations; Age resolution; Extraneous random errors; Factor of merit components; Method performance characteristics; Minimum and maximum detectable ages; *13875*. **SP305-6.**
- Radiochemical analyses; Ashing (wet and dry); Chemical errors; Contamination; Dissolution techniques; Fusion dissolution; *SP422*, pp. 463-490 (Aug. 1976). **SP305-8.**
- Radiochemical analysis; Random errors; Systematic errors; Thorium chemical yield; Bio-assay; Carbon-14; Detection efficiency; Isotope dilution; "over-all" yield; *9652*. **SP305-1.**
- Radiochemical laboratories; 14 MeV neutron generator; 100 MeV-40 KW LINAC; Clean room; Computers; Counting rooms; Feedback analysis; Optimization of variables 10 M nuclear reactor; Pneumatic tubes; *9154*. **SP305.**
- Radiochemical separation; Activation analysis; Amalgam exchange; Copper; *10779*. **SP305-1.**
- Radiochemical separation; Activation analysis; Application; Archaeology; Biology; Charged particles; Computation; Conference; Criminology; Data handling; Geochemistry; Industrial Neutron; Nuclear reactions; Photons; *SP312, Volumes I & II*. **SP305-1.**
- Radiochemical separation; Solvent extraction; Tribenzylamine Analysis; Biological materials; Chloroform; Chromium; Environmental materials; Neutron activation; *15409*. **SP305-7.**
- Radiochemical separation; Trace elements; Biological material; Biological standards; Data evaluation; Distillation; Food composition; Gamma spectrometry; Inorganic separators; Isotope exchange; Multielement determination; Neutron activation; *SP422*, pp. 1173-1180 (Aug. 1976). **SP305-8.**
- Radiochemical separations; Carbon; Combustion separation; Metals; Photon activation analysis; *11751*. **SP305-2.**
- Radiochemical separations; Reactor; Standard reference material; Activation analysis; Cockcroft-Walton neutron generator; LINAC; *11364*. **SP305-2.**
- Radiochemical separations; Sampling and sample handling; Accuracy and precision; Activation analysis; Analytical design; Irradiation procedures; Radioactivity detection system; *SP422*, pp. 1143-1155 (Aug. 1976). **SP305-8.**
- Radiochemical separations; Selenium; Activation analysis; Arsenic; Cadmium; Environment; Mercury; Pollution; *1451*. **SP305-6.**
- Radiochemical separations; Silver; Accuracy; Activation analysis; Copper; Gold; Hafnium; Palladium; Platinum; Precision; *SP422*, pp. 1157-1164 (Aug. 1976). **SP305-8.**
- Radiochemical separations; Sodium; Trace elements; Activation analysis; Glass; Hydrated antimony pentoxide (HAP); *1200*. **SP305-3.**
- Radiochemical separations; Spontaneous deposition; Trace analysis; Glasses; Neutron activation analysis; *12931*. **SP305-4.**
- Radiochemical separations; Steels; Activation analysis; Biological materials; Hydrogen bis(2-ethylhexyl) phosphate; Molybdenum; *11365*. **SP305-2.**
- Radiochemical separations; Steels; Activation analysis; Gross separations; *11157*. **SP305-2.**
- Radiochemical separations; Theoretical detection limits for activation analysis; CLSQ program for multicomponent detection; Solid state detectors; Electronic data handling; NBS reactor; NBS Linac; Cockcroft-Walton generator; Digital computer; Activation analysis; *TN404*. **SP305.**
- Radiochemistry; Radioisotope dilution; Rutile; Self-consistent crystal field; Standard reference materials; Structure analysis; Calculations; Conversion electrons; Counting statistics; Cross sections; Cryostats; Electric field gradient tensor; *TN50*. **SP305-2.**
- Radiochemistry; Radionuclide identification; Specific activity threshold; Detection limits; High sensitivity counting; Low level; Low-level separations; Microactivity; *12887*. **SP305-4.**
- Radiochemistry; Solvent extraction; Technetium; Tungsten; Activation analysis; Molybdenum; *11462*. **SP305-2.**
- Radiochemistry; Trace analysis techniques; Accuracy error limits; Activation analysis; Atomic absorption; Instrumental biases; Isotope-dilution; Method biases; Nuclear transmutation; Practical samples; *13763*. **SP305-5.**
- Radiochromic dosimeters; X-ray spectra; Bone; Dosimetry; Dyes; Electron dosimetry; Energy dependence; Gamma ray muscle; *15429*. **SP305-7.**
- Radiochromic dye; Charge deposition; Depth dose; Dielectric dose distribution; Dosimetry; Dye film dosimeters; Electron beams; Polystyrene; *12719*. **SP305-4.**

biochromic dye films; Spectral transmission density; Densitometer; Microdensitometer; *J75C No. 1, 23-27 (1971). SP305-3.*  
 biochromic dyes; Absorbed dose rate; Depth dose; Dose distribution; Dye films; Electron beams; Optical cell; Pulse radiolysis; Radiation dosimetry; *15277. SP305-7.*  
 biochromic dyes; Absorbed dose rate; Cellulose triacetate; Dosimetry; Dyed cellophane; Dyed plastics; Electron beams; Gamma radiation; Plastic films; Polymethyl methacrylate; polyvinyl chloride; Radiation processing; *15278. SP305-7.*  
 biochromic dyes; Absorbed dose rate; Calorimetry; Chemical dosimetry; Electron beams; Gamma radiation; Radiation dosimetry; *15482. SP305-7.*  
 biochromic dyes; Red Perspex; Sterility control; Dosimetry; Electron beams; Gamma rays; Physical measurements; Quality control; Radiation measurement; Radiation processing; radiation sterilization; *16648. SP305-8.*  
 biochromic dyes; Spectrophotometry; Colour dosimeters; Dosimetry; Dyes; Glass; Plastics; Radiation; *15960. SP305-8.*  
 biochromic dyes; Thin films; Absorbed dose; Calorimetry; Cavity theory; Depth dose; Dosimetry; Dye dosimeters; Electron beams; Gamma rays; Plastic dosimeters; *13559. SP305-8.*  
 biochromic dyes; Thin films; Dose distributions; Dosimetry; Dye dosimeters; Electron beams; Radiation curing; Radiation processing; *14957. SP305-7.*  
 biochromic dyes; Thin films; Cavity theory; Depth dose; Dose distributions; Dosimetry; Dyes; Electron beams; *15424. SP305-7.*  
 biochromic dyes; Triphenylmethane dyes; Dosimetry; Dyes; Gamma rays; Nitrobenzene; Oxidation; Pararosaniline cyanide; *13533. SP305-5.*  
 biochromic dyes; Two-layer slabs; Depth-dose; Dose distribution; Dosimetry; Dye film; Electron beams; Film dosimeter; interfaces; Monte Carlo; *13212. SP305-5.*  
 biochromic dyes; X-rays; Accelerator; Blood irradiators; Dosimetry; Electron beams; Gamma rays; *13630. SP305-5.*  
 biochromic dyes; 10-MeV electrons; Aluminum; Carbon; Depth-dose; Depth-dose distributions; Dye-film dosimeters; Polyethylene; Polystyrene; *NBSIR 73-413. SP305-6.*  
 biochromism; Triphenylmethane dyes; Vinyl resins; X-ray detectors; Dosimetry; Dyes; Gels; Microdosimetry; Plastics; *14659. SP305-6.*  
 biofrequency; RF exposure; Spectrum analyzer; Antenna; Microwave; Minicomputer; *SP456, pp. 203-213 (Nov. 1976). SP305-8.*  
 bio-frequency; RF-DC difference; Standard; Thermal-current-converter; Thermopile; Ammeter; Compensation; *14588. SP305-6.*  
 bio-frequency; Spectrochemical analysis; Atomic absorption spectrometry; Atomic emission spectrometry; Detection limits; Interference effects; Plasma torch; *11172. SP305-2.*  
 bio-frequency; Standards; Thermocouple; Ammeter; Calibration; Current; Electrodynamic; Measurement; *10058. SP305-1.*  
 bio-frequency; Waveguide joints; Woven metal; Electrical measurements; Fluid pressure seal; Pressed woven metal; *9765. SP305-1.*  
 bio-frequency power; Coaxial dry-load calorimeter; Feedback control; *11277. SP305-2.*  
 bio-frequency power measurement; Self-balancing Wheatstone bridge; Automated dc substitution; Bolometer calibration; *SP335, pp. 35-37. SP305-3.*  
 bio-frequency standards; Absolute measurements; Basic electrical standards; Quantum electric standards; *SP335, pp. 129-132. SP305-3.*  
 biographic examination; X-ray tube potential; Attenuation; Exposure; Phantoms; Phototiming; *SP456, pp. 381-388 (Nov. 1976). SP305-8.*

Radiographic films; Silver halides; Dosimetry; Gamma rays; Hypersensitization; Internal image; Latensification; Photographic development; Physical development; Printout; Photolysis; *11643. SP305-2.*  
 Radiographic imaging; Depth dose; Dose distributions; Dosimetry; Dyes; Electron beams; Films; Gamma rays; Microdosimetry; *11551. SP305-2.*  
 Radiographic imaging; Steady-state x rays; Detector calibrations; Fluorescence x-ray sources; K x-ray sources; Pulsed x rays; *SP456, pp. 41-45 (Nov. 1976). SP305-8.*  
 Radiographic inspection; Thermal neutrons; Three-dimensional; Complex object; Laminagraphy; Multiple-film; *16371. SP305-8.*  
 Radiography; Activation analysis; Crystal structure; Diffraction; Isotopes; Molecular dynamics; Neutron; Nuclear reactor; Radiation; *TN860. SP305-7.*  
 Radiography; Radiotherapy; Tissue; Dosimeter; *SP425, pp. 527-532. SP305-7.*  
 Radiography; Serviceability; Dimensional measurement; Image enhancement; Imaging methods; Nondestructive evaluation; *15148. SP305-7.*  
 Radiography; Voluntary standards; X rays; Radiation safety; *13482. SP305-5.*  
 Radiography; Welding; Fracture control; Fracture mechanics; Mechanical properties; Nondestructive evaluation (NDE); *NBSIR 76-1154, Vol. 1. SP305-8.*  
 Radiography; Welding; Fracture control; Fracture mechanics; Mechanical properties; Nondestructive evaluation (NDE); *NBSIR 76-1154, Vol. 2. SP305-8.*  
 Radioisotope dilution; Rutile; Self-consistent crystal field; Standard reference materials; Structure analysis; Calculations; Conversion electrons; Counting statistics; Cross sections; Cryostats; Electric field gradient tensor; Electronics; Gas analysis; *TN501. SP305-2.*  
 Radioisotope dilution; Substoichiometry by controlled potential coulometry; Radiochemical separations; Theoretical detection limits for activation analysis; CLSQ program for multicomponent decay; Solid state detectors; Electronic data handling; NBS reactor; *TN404. SP305.*  
 Radioisotope dilution; Substoichiometric; Trace analysis; Zinc spelter; Cadmium; Coulometry; Electrolysis; Radioactive tracers; *10412. SP305-1.*  
 Radioisotope dilution; Substoichiometric; Toluene-3,4-dithiol; Tungsten; Molybdenum; *14411. SP305-6.*  
 Radioisotope test; Seals; Semiconductor devices; Weight test; Bubble test; Gas analysis; Helium leak test; Hermeticity; Integrated circuits; Measurement methods; Microelectronics; *SP400-9. SP305-6.*  
 Radioisotopes; Radiopharmaceuticals; Reference sources; Standards; SRMs; Biomedical; Clinical; Measurements system; *16151. SP305-8.*  
 Radioisotopic dilution; Standard reference material; Analysis; Cobalt; Dowex 50-X8; EDTA; Iron; Nickel oxide; *9876. SP305-1.*  
 Radioluminous products; Self-luminous sources; Test procedures; Classification; Containment; Designation; Light sources; National standard; Radiation source; Radioactive; *H116. SP305-8.*  
 Radiolysis; Acetone; Energy transfer; Ion-molecule reactions; Mass spectrometry; *13178. SP305-5.*  
 Radiolysis; Butene; Cyclobutane; Ion structure; Isomerization; Methylcyclopropane; Photoionization; Photolysis; *J75A No. 6, 591-605 (1971). SP305-3.*  
 Radiolysis; Charge transfer; Deactivation; Ethane; Ion-molecule reactions; Mass spectrometry; *12129. SP305-3.*  
 Radiolysis; Cyclohexane; Effects impurity; Ion-molecule reactions; Mass spectrometry; *11928. SP305-3.*  
 Radiolysis; Cyclopentane; Gas-phase radiolysis; Hydrocarbons; *9679. SP305-1.*

- Radiolysis; Cyclopropane; Free radical reactions; Ion-molecule reactions; Photolysis; 11112. SP305-2.
- Radiolysis; Ethylene; Free radical reactions; Ion-molecule reactions; Photolysis; Polymerization; *J.TSA No. 3, 141-146 (1971)*. SP305-3.
- Radiolysis; Free radical reactions; Ion-molecule reactions; Photolysis; 9748. SP305-1.
- Radiolysis; Free radical reactions; G-values; Ion-molecule reactions; Neopentane; Proton transfer; 14890. SP305-7.
- Radiolysis; Free radicals; Hydrocarbon; Ion molecule reactions; Neutral excited molecules; 10306. SP305-1.
- Radiolysis; Free radicals; H<sub>2</sub>S; Ion-molecule reactions; Photolysis; Propane; Radical scavenger; 9544. SP305-1.
- Radiolysis; Free radicals; Ion-molecules reactions; Neopentane; Photolysis; 9180. SP305.
- Radiolysis; Gas-phase kinetics; Ion-molecule reactions; Mass spectrometry; Photoionization; Proton affinity; *J.TSA No. 6, 655-659 (1972)*. SP305-4.
- Radiolysis; Hydrocarbons; Ion-molecule reactions; 9273. SP305.
- Radiolysis; Ion-molecule reactions; Isobutene; Photoionization; Polymerization; 13002. SP305-4.
- Radiolysis; Ion-molecule reactions; Ion pair yields; Pentanone; Photolysis; Primary processes; 10049. SP305-1.
- Radiolysis; Rate constants; Alkyl halides; Ion-molecule reactions; Mass spectrometry; Photoionization; 14465. SP305-6.
- Radiolysis; Rate constants; CO; CO<sub>2</sub>; Ion-molecule reactions; O<sub>2</sub>; Photoionization; *J.TSA No. 3, 315-322 (1974)*. SP305-6.
- Radiolysis; Rate constants; *t*-butyl ion; Carbonium ions; Ion-molecule reactions; Neopentane; 11854. SP305-3.
- Radiolysis; Rate constants; Theory; Hydrocarbons; Ion-molecule reactions; Photoionization; 11853. SP305-3.
- Radiolysis; Reaction rates; Structure of ions; Ion-molecule reactions; Hydrocarbons; 10729. SP305-1.
- Radiolysis; Spectrum; Calibration; Construction; Na-D photoneutron sources; SP425, pp. 112-115. SP305-7.
- Radiolysis; Unimolecular decomposition; Cycloalkanes; Ion-molecule reactions; Ion-pair yields; 9680. SP305-1.
- Radiolysis; Unimolecular fragmentation; Ion-molecule reactions; Neopentane; Neutralization; 12141. SP305-3.
- Radiolysis; Unimolecular ion fragmentation; Deactivation; Ion-molecule reactions; Photoionization; 11905. SP305-3.
- Radiolysis; Vinyl chloride; Vinyl radical; Gas phase; Photolysis; Quantum yield; *J.TSA No. 2, 243-248 (1973)*. SP305-5.
- Radiolysis and photoionization of hydrocarbons; Analysis of neutral products; Ion-molecule reactions; Neutral products; Photoionization of hydrocarbons; 9545. SP305-1.
- Radiometer; Cryogenic noise source measurements; Microwave; Noise source measurements; 9150. SP305.
- Radiometer; Electrically calibrated; Pyroelectric; 15645. SP305-7.
- Radiometer; Error analysis; Noise factor; Noise source; Noise temperature; 9946. SP305-1.
- Radiometer; Noise; Noise calibration; 10928. SP305-2.
- Radiometer; Radiometry; Ac power measurements; Electrically calibrated radiometer; Pyroelectric detector; 13924. SP305-6.
- Radiometer; Sensitivity; Switching; Dicke; Microwave; *J.TC2-252, 127-152 (1967)*. SP305.
- Radiometer; Stabilizer; Toy safety; Computer security; Energy efficiency; Electroanalysis; Fluorides; Heart; Heat pump; Laser; Ozone; *DIM/NBS 59, No. 11, 241-264 (1975)*. SP305-7.
- Radiometer; Transducers; Electrets; Hydrophone; Piezoelectric; Polymers; Polyvinylidene fluoride; Pyroelectric; *NBSIR 75-760*. SP305-7.
- Radiometers; IR detectors; Polyvinylfluoride; Pyroelectrics; 14531. SP305-6.
- Radiometers; Optical radiation; Pyroelectrics; 15830. SP305-8.
- Radiometers; Spectral densities; Noise power comparison; Power comparator; Prototype noise power comparison; 10153. SP305-1.
- Radiometers; Ultraviolet; Calibration; Detector; Infrared; Pyroelectric; 13752. SP305-5.
- Radiometric; Titrations; Zinc; Batch; Column; Cationic exchange; EDTA; 10386. SP305-1.
- Radiometric calibration; Radiometry; Laser; Laser energy measurement; Optical attenuator; Photoelectric photometer; *TN418*. SP305.
- Radiometric calibrations; Vacuum ultraviolet; Hydrogen plasma; Radiation standard; 13877. SP305-6.
- Radiometric measurements; CIE photometric model; Photometry, heterochromatic; 16002. SP305-8.
- Radiometric methods; Analysis; Co; Cu; Fe; Mn; NBS Standard Reference Material 671; Nickel oxide; Paper chromatography; 9875. SP305-1.
- Radiometric physics; Radiometry; Solar conversion; Atmospheric physics; 14842. SP305-7.
- Radiometric standards; Radiometry; Spectral irradiance; Spectral radiance; Irradiance; SP336, pp. 185-187. SP305-3.
- Radiometric standards; Radiometry; Spectral responsivity; Calibration techniques; Infrared radiometers; 10600. SP305-1.
- Radiometric standards; Rare gas ionization chamber; Thermopiles; Tungsten; Vacuum ultraviolet; Anodized aluminum; Chromium; Gold; Photoelectric yield; 14708. SP305-6.
- Radiometric standards; Solar constant; Spectral irradiance; Total irradiance; Calibration techniques; 11775. SP305-2.
- Radiometric trace chromatography; Radioisotope dilution; Stoichiometry by controlled potential coulometry; Radiochemical separations; Theoretical detection limits; Activation analysis; CLSQ program for multicomponent decay; Solid state detectors; *TN404*. SP305.
- Radiometry; Absolute detector radiometry; Electrically calibrated detectors; International Pyroelectric Scale; Radiance; *TN594-1*. SP305-4.
- Radiometry; Absorbance; Calorimeter; Cavity; Laser energy measurements; Laser power measurements; 15033. SP305.
- Radiometry; Ac power measurements; Electrically calibrated radiometer; Pyroelectric detector; Radiometer; 135. SP305-6.
- Radiometry; Black coatings; Detectors; Gold-black; Pyroelectric; 14230. SP305-6.
- Radiometry; Blackbody; Electromagnetic radiation; 126. SP305-4.
- Radiometry; Blackbody; Optical pyrometry; *TN483*. SP305-1.
- Radiometry; Calibrations; Calorimeters; Detectors; Laser; SP456, pp. 215-221 (Nov. 1976). SP305-8.
- Radiometry; Detector; Pyroelectric; *TN678*. SP305-8.
- Radiometry; Infrared detectors; Polymers; Pyroelectrics; 164. SP305-8.
- Radiometry; Laser; Laser energy measurement; Optical attenuator; Photoelectric photometry; Radiometric calibration; *TN418*. SP305.
- Radiometry; Reflectance; Reflectometry; Photometry; 158. SP305-8.
- Radiometry; Reflectance; Symbols in reflectometry; Terminology in reflectometry; Definitions in reflectometry; Photometry; 9823. SP305-1.
- Radiometry; Reflectances; Black coatings; Detectors; 161. SP305-8.
- Radiometry; Reflectometry; Emissivity; Flashing light; Laser measurement; Irradiance; Material properties; Photometry; Projectors; Radiance; SP300. Vol. 7. SP305-3.
- Radiometry; Reflectometry; Space environment simulation chambers; Contamination collection units; Gas-liquid chromatography; Infrared spectrometry; Mass spectrometry; Quartz crystal oscillator mass monitors; SP336, pp. 259. SP305-3.



ometry; Relative transmittance factor; Dichroic polarizers; Optics; Pyrometry; *J74C Nos. 1 and 2, 9-13 (1970). SP305-5.*

ometry; Remote sensing; Agriculture; Clinical analysis; Economic impact; Energy crisis; Meteorology; Photometry; Phototherapy; Pollution; *TN594-4. SP305-5.*

ometry; Remote sensing; Safety; Energy crisis; Health; Meteorology; Photometry; Pollution monitoring; *14674. SP305-6.*

ometry; Remote sensing; Solar monitoring; Source standards; Blackbodies; Lamp standards; *16619. SP305-8.*

ometry; Resonant cavity; Voltage; Waveform; Waveguide function; Admittance; Antenna; Attenuator; Bolometer; Alorimetry; Horn; Impedance; Interferometry; Measuring stem; Phase; Power; *SP300, Volume 4. SP305-2.*

ometry; Rise time; Temporal response; Transfer standard detector; XUV photodiode; *15226. SP305-7.*

ometry; Scalar diffraction theory; Diffraction; Diffraction losses; Fresnel diffraction; Kirchhoff diffraction theory; Photometry; *TN594-8. SP305-6.*

ometry; Second order diffracted radiation; Synchrotron radiation; XUV grating monochromators; Calibrated XUV detectors; Irradiance; *15107. SP305-7.*

ometry; Selenium; Silicon; Stability; Temperature dependence; Fatigue; Light memory; Photocells; Photodiodes; Photometry; *TN594-5. SP305-5.*

ometry; Solar conversion; Atmospheric physics; Radiometric physics; *14842. SP305-7.*

ometry; Solar energy conversion; Effective irradiance; *15711. SP305-8.*

ometry; Solar irradiance; Spectroradiometry; Ultraviolet; Natural ultraviolet; *14155. SP305-2.*

ometry; Sources; Spectral irradiance; Filter-spectroradiometer; Measurement techniques; Prism-spectroradiometer; *10428. SP305-1.*

ometry; Sources; Spectral radiance; Blackbodies; Non-blackbody emission; Optical radiation; *9344. SP305.*

ometry; Sources; Standards; Survey; Ultraviolet; Detectors; BS; *SP456, pp. 107-110 (Nov. 1976). SP305-8.*

ometry; Spectral irradiance; Spectral radiance; Irradiance; Radiometric standards; *SP336, pp. 185-187. SP305-3.*

ometry; Spectral irradiance; Spectral radiant power density; Cw dye laser; Detector spectral response; Electrically calibrated pyroelectric detector; *15138. SP305-7.*

ometry; Spectral radiance; Standards calibrations; Tungsten strip lamp; Blackbody; High temperature measurement; *1592. SP305-2.*

ometry; Spectral radiance; Vacuum ultraviolet; Wall-stabilized; Arc; Calibrations; Hydrogen; Plasma; *15291. SP305-7.*

ometry; Spectral responsivity; Calibration techniques; Infrared radiometers; Radiometric standards; *10600. SP305-1.*

ometry; Spectrometer calibration; Standard source; Synchrotron radiation; Vacuum ultraviolet; Irradiances; *79A No. 6, 761-774 (1975). SP305-7.*

ometry; Spectrometry; Spectroradiometry; Analytical chemistry; Nomenclature; Photochemistry; Photometry; Physical optics; *16331. SP305-8.*

ometry; Spectrophotometry; Sphere coatings; Averaging sphere; Efficiency; *15896. SP305-8.*

ometry; Spectroradiometry; Optical radiation measurement; Photometry; *TN910-1. SP305-8.*

ometry; Standards; Measurement system; Photometry; Professional societies; *TN594-6. SP305-6.*

ometry; Sun; Weathering; Xenon arc; Carbon arc; Degradation; Irradiance; Photodegradation; Plastics; Polymers; Radiation; *10472. SP305-1.*

ometry; Systematic errors; Uncertainties; Accuracy; Optical radiation measurement; *16583. SP305-8.*

Radiometry; Terminology; Geometrical radiative transfer; Nomenclature; Optical radiation; Fluorimetry; Photometry; *13255. SP305-5.*

Radiometry; Thermal radiative transfer; Blackbody; Holrahn radiation; *13543. SP305-5.*

Radiometry; Thermopile; Detectors; Far ultraviolet; Ion chamber; Photodiodes; *13550. SP305-5.*

Radiometry; Vacuum ultraviolet; Continuum emission coefficient; Hydrogen arc; *13652. SP305-5.*

Radiometry; Vacuum ultraviolet; Wall-stabilized arc; Blackbody calibrations; Hydrogen continuum; Primary standard; *15412. SP305-7.*

Radionuclide; Absorbed dose; Beta ray; Dosimetry; Nuclear medicine; Point kernel; *11861. SP305-3.*

Radionuclide; Radiopharmaceutical; Absorbed dose; Calculation; Dosimetry; Nuclear medicine; *15977. SP305-8.*

Radionuclide; Radiostrontium; Environment; Intercalibration; Intercomparison; Radioactivity; *TN875. SP305-7.*

Radionuclide calorimetry; Radionuclide decay power; Standards; Bunsen ice calorimeter; Calorimetric standards; Calorimetry; Heat standards; Phase-change calorimeter; Plutonium dioxide; Plutonium isotopes; *16443. SP305-8.*

Radionuclide decay power; Standards; Bunsen ice calorimeter; Calorimetric standards; Calorimetry; Heat standards; Phase-change calorimeter; Plutonium dioxide; Plutonium isotopes; Radionuclide calorimetry; *16443. SP305-8.*

Radionuclide dosimetry; Reciprocity relationship; Specific absorbed fraction; Dosimetry; radionuclide; Internal dose calculation; Nuclear medicine; *14618. SP305-6.*

Radionuclide half-lives; Radionuclide standards; Alpha-particle standards; Calibration consistency; Coincidence counting; Decay-scheme effects; Efficiency tracing; Gamma-ray standards; International comparisons; Liquid-scintillation counting; *SP331. SP305-2.*

Radionuclide identification; Specific activity threshold; Detection limits; High sensitivity counting; Low-level; Low-level separations; Microactivity; Radiochemistry; *12887. SP305-4.*

Radionuclide standards; Alpha-particle standards; Calibration consistency; Coincidence counting; Decay-scheme effects; Efficiency tracing; Gamma-ray standards; International comparisons; Liquid-scintillation counting; Radionuclide half-lives; *SP331. SP305-2.*

Radionuclides; Sample handling; Sampling; Trace elements; Chemical analysis; Environmental samples; Long-term storage; Microbiologicals; Organics; Pesticides; *TN929. SP305-8.*

Radionuclides; Substoichiometry; Absorption isotherm; Environmental samples; Fluorine; Isotope dilution; *SP422, pp. 961-982 (Aug. 1976). SP305-8.*

Radiopacidity; Bonding; Composites; Denture base materials; Diagnosis; Light translucency; Physical properties; *12232. SP305-3.*

Radiopacidity; Reinforcements; Wear; Composite resins; Composites; Dental materials; Fillers; Porous glass; *16586. SP305-8.*

Radiopacidity; Reinforcements; Wear; Composite resins; Composites; Dental materials; Fillers; Porous glass; *16587. SP305-8.*

Radiopacidity; Silane bonding; Composites; Denture base materials; Dentures; Dimensional stability; Foreign bodies; Prosthetics; *12310. SP305-3.*

Radiopacidity-radiopaque; Composite materials; Denture base materials; Physical properties; Prosthetic materials; *12309. SP305-3.*

Radiopaque; Reinforcements; "Aluminoborate anomaly;" barium; Composites; Dental materials; Glasses; *12635. SP305-4.*

Radiopaque denture base materials; Denture foreign bodies; Type, cause, prevention; Prosthetic materials; Radiopaque agents; *12233. SP305-3.*

- Radiopaquing agents; Radiopaque denture base materials; Denture foreign bodies: Type, cause, prevention; Prosthetic materials; *12233. SP305-3.*
- Radiopharmaceuticals; Absorbed dose; Calculation; Dosimetry; Nuclear medicine; Radionuclide; *15977. SP305-8.*
- Radiopharmaceuticals; Standards; Traceability; Assurance; Measurement; Radioactivity; *SP456, pp. 71-76 (Nov. 1976). SP305-8.*
- Radiopharmaceuticals; Reference sources; Standards; SRM's; Biomedical; Clinical; Measurements system; Radioisotopes; *16151. SP305-8.*
- Radiopharmaceuticals; Technetium-99m; Tin-113; Dose calibrators; Indium-113m; Molybdenum-99; Nuclear medicine; *TN791. SP305-5.*
- Radiopharmaceuticals; <sup>99m</sup>Tc; Gamma camera; Nuclear medicine; Quality assurance; *SP456, pp. 131-138 (Nov. 1976). SP305-8.*
- Radiostromtium; Environment; Intercalibration; Intercomparison; Radioactivity; Radionuclide; *TN875. SP305-7.*
- Radiotherapy; Absorbed dose; Cell survival; Heavy particles; OER; *SP425, pp. 533-539. SP305-7.*
- Radiotherapy; Tissue; Dosimeter; Radiography; *SP425, pp. 527-532. SP305-7.*
- Radiotracer measurements; Rates of adsorption; Surfaces; Adsorption; Adsorption on mercury; Desorption; Polymers; Polystyrene; *15853. SP305-8.*
- Radiowave spectrum; Comet; Fluorescence; OH; Optical pumping; *14559. SP305-6.*
- Radium compounds; Enthalpy; Entropy; Gibbs energy of formation; Beryllium compounds; Magnesium compounds; Calcium compounds; Strontium compounds; Barium compounds; *TN270-6. SP305-3.*
- Radius; Two segments; Distribution; Gyration; Polymer; *11947. SP305-3.*
- Radius of gyration; Relaxation; Statistical-bead model; Autocorrelation; Correlation; End-to-end length; Fokker-Planck equation; Polymer chain dynamics; *9515. SP305.*
- Radius of gyration; Self-interacting polymer chains; Asymmetry of polymer configurations; Excluded volume; Principal moments; *14016. SP305-6.*
- Radius of gyration; Tchebichef Polynomial; Brownian chain; Distribution; Gaussian; Polymer; *10287. SP305-1.*
- Railroad freight movements; Short-line milling system; Waybills; *16241. SP305-8.*
- Railroad freight transportation systems; Transportation systems; Computer simulation model; Network-simulation; *10150. SP305-1.*
- Railroad inspection; Transportation; Vehicle inspection; Airport pavements; Bridge inspection; Neutron testing; Pipeline inspection; *15213. SP305-7.*
- Railroad signals; Signal colors; Signal standards; Spectral transmittance of glass filters; Traffic signals; Aircraft signals; Color standards; Filter permanence; Limit filters; *TN564. SP305-3.*
- Railroad yard; Trains; Acoustics; Noise measurement; Noise (sound); *NBSIR 74-488. SP305-7.*
- Railroads; Scheduling; SIMSCRIPT; Simulation; Sorting; Freight operations; GPSS; *9427. SP305.*
- Railway safety; Silicon devices; Water heaters; Windowless buildings; Auto fuels; Energy; Highway safety; Lead; Pressure transducer; *DIM/NBS 59, No. 8, 169-192 (1975). SP305-7.*
- Rain penetration; Robustness of construction; Technical evaluation; Uniformity of assessment; Weathering; Agrément; Durability prediction; Economic aspects; Evaluative judgement; Need for clarity of purpose; *SP361, Vol. 1, pp. 491-502. SP305-4.*
- Rain-tightness; Sealed glazing units; Wind loading; Window; Air-tightness; Performance characteristics; Performance parameters; *SP361, Vol. 1, pp. 375-384. SP305-4.*
- Rainwater analysis; Reference materials; Chemical analysis; *NBSIR 75-958. SP305-8.*
- Rainwater analysis; Sample stability; Surface water analysis; Irrigation losses; Metallic ions; Pollution monitoring; *SP422 633-648 (Aug. 1976). SP305-8.*
- Raman; And rotational diffusion; Band shape analysis; Diffusion models; Infrared; Jump diffusion; Molecular reorientation; Neopentane; Phase transition; Plastic crystal; *13773. SP305-5.*
- Raman; Combining ratio; Complex; Infrared; Ion selective electrode; Lanthanum; Nitrate; Polarography; *11355. SP305-8.*
- Raman; Laser; Vibrational assignment;  $C_6F_6$ ;  $C_6Cl_6$ ;  $C_6Br_6$ ; Hexahalogenated benzenes; *12299. SP305-3.*
- Raman; Sodium bifluoride; Stretching vibration; Bending vibration; Hydrogen bond; Infrared; Isotope dilution; Lattice modes; *11983. SP305-3.*
- Raman; Spectra; Ethyldifluoroborane; Ethynyldichloroborane; Gas phase; Infrared; *14181. SP305-6.*
- Raman; Stretching vibration; Bending vibration; Bifluoride; Hydrogen bonding; Infrared; Lattice modes; Neutron scattering; *13144. SP305-5.*
- Raman; Trifluoramine oxide; Vibrational assignment; Infrared; Laser; Low temperature; *11240. SP305-2.*
- Raman; Vibration; High amplitude; Internal rotation;  $PF_5$ ; Internal rotation; *15370. SP305-7.*
- Raman scattering; Alkali hydrosulfides; Crystal dynamics; *14686. SP305-6.*
- Raman scattering; Benzene; Carbon tetrachloride; *SP305-1.*
- Raman scattering; Benzene; Carbon tetrachloride; *14016. SP305-2.*
- Raman scattering; Diamond-anvil cell; Gallium phosphide; *14277. SP305-6.*
- Raman scattering; Gas analysis; Inclusions in glass; *12000. SP305-7.*
- Raman scattering; Relation between spectra; X-ray absorption; X-ray inelastic scattering; Compton scattering; Plasmon scattering; *12409. SP305-4.*
- Raman scattering; Sample characterization; Semiconductor; Cuprous oxide; Implantation; Ion; Nondestructive testing; *15915. SP305-8.*
- Raman scattering; Silicon; Gallium phosphides; High pressure; Metallic phase transitions; Phonon dispersion; *15187. SP305-7.*
- Raman scattering; Structure; Ammonium perchlorate; Lattice dynamics; *15701. SP305-7.*
- Raman scattering; Time correlation function; Depolarization; Rayleigh scattering; Ideal gas; Incoherent neutron scattering; Infrared absorption; Liquid state; Memory function; Projection operator; *J78A No. 3, 413-420 (1974). SP305-6.*
- Raman spectra; Data; Force constants; Infrared spectra; Molecular vibration; Molecular vibrational frequencies; Molecular spectra; *NSRDS-NBS11. SP305.*
- Raman spectra; Rocksalt structure; Rutile structure; Sodium structure; Corundum structure; Order-disorder; *SP364 99, 113-126. SP305-4.*
- Raman spectra; Spectra; Sulfur trioxide; Air pollution; Infrared spectra; Molecular structure; *13270. SP305-5.*
- Raman spectra; Symmetrical;  $BrHBr^-$  ion;  $ClHCl^-$  ion; Environmental effects; Infrared spectra; *11657. SP305-2.*
- Raman spectra; Torsional frequency; Vibration; Barrier to rotation; Crystal force field; Crystal structure; Lattice modes; Phosphonium halides; *11441. SP305-2.*
- Raman spectra; Torsional oscillation; Vibration; Crystal structure; Force field; Hindered rotation; Laser; Phosphonium halides; *11103. SP305-2.*
- Raman spectra; Tungstates; Molybdates; *J72A No. 1, 1-34 (1968). SP305-1.*

- an spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; *NSRDS-NBS39*, **SP305-4**.
- an spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; *J. Phys. Chem.* **76**, *Data 1*, No. 1, 189-216 (1972). **SP305-6**.
- an spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; *J. Phys. Chem.* **77**, *Data 2*, No. 1, 121-161 (1973). **SP305-6**.
- an spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; *J. Phys. Chem.* **78**, *Data 2*, No. 2, 225-256 (1973). **SP305-6**.
- an spectra; Vibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; *J. Phys. Chem.* **78**, *Data 3*, No. 1, 269-308 (1974). **SP305-6**.
- an spectra; Vibrational relaxation; Chloroform; Infrared spectra; Molecular reorientation; *15700*. **SP305-7**.
- an spectroscopy; Alkanes; Longitudinal acoustical mode; ethyl group branches; Polyethylene; *16279*. **SP305-8**.
- an spectroscopy; CARS; Diphenylotetraene (dilute solution); Four-wave numbering; HORSES; Nonlinear optics; *716*. **SP305-8**.
- an spectroscopy; Chain-folded polyethylene crystals; Longitudinal acoustical modes; *n*-paraffins; Polymorphism; *398*. **SP305-6**.
- an spectroscopy; Chemical analysis; Fluid interactions; Geology; Minerals; *15930*. **SP305-8**.
- an spectroscopy; Far infrared spectroscopy; Interchain hydrogen bonding; Low frequency vibrations; Polypeptides; *948*. **SP305-6**.
- an spectroscopy; Fine particles; Laser Raman; Micro-man; Particle analysis; Particulates; *15362*. **SP305-7**.
- an spectroscopy; Infrared; Matrix isolation; *MoF<sub>3</sub>*; *13501*. **SP305-5**.
- an spectroscopy; Ring-puckering; Barrier heights; Four-member ring molecules; Infrared spectroscopy; Microwave spectroscopy; *14685*. **SP305-6**.
- an spectroscopy; Rotator phase; Rotational isomerism; *n*-alkanes; *12827*. **SP305-4**.
- an spectroscopy; Rotatory lattice modes; *n*-alkanes; Polyethylene; *16218*. **SP305-8**.
- an spectroscopy; Thermodynamic properties; Vibrational analysis; Gas; *ONF<sub>3</sub>*; *14009*. **SP305-6**.
- an spectroscopy of sulfur; Sulfur identification; Bubble content analysis; Gas analysis; Inclusions in glass; *15703*. **SP305-7**.
- an spectroscopy-lattice vibrations; *n*-paraffins; Polyethylene ionon dispersion curves; *13655*. **SP305-5**.
- an spectrum; Trihalide ions; Force constants; Infrared spectrum; *9920*. **SP305-1**.
- an spectrum of polywater; Water; Anomalous water; Infrared spectrum of polywater; Polywater; *11048*. **SP305-2**.
- an-active longitudinal acoustic mode; Localized defects; *n*-alkanes; Polyethylene; *16219*. **SP305-8**.
- anjan congruences; Density; Partitions; *10179*. **SP305-1**.
- an; Rayon; Sulfur; Cellulosic fibers; Combustion; Cotton burs; Flame retardant treatments; Phosphorous acids; Pyrolysis; *NBS-GCR-73-4*. **SP305-8**.
- an cavity; Accuracy; Accuracy evaluations; Cavity phase shift; Cesium beam tube; Frequency stability; Interaction length; Phase noise; Primary frequency standards; *15683*. **SP305-7**.
- an cavity; Slave oscillator; Atomic frequency standard; Cesium beam; Figure of merit; Frequency accuracy; Frequency multiplier; Frequency precision; *NBS-III*; *NBS-5*; Phase noise; Quartz crystal oscillator; *11959*. **SP305-3**.
- an cavity interaction region; Second-order doppler; Velocity distribution; Cavity phase shift; Cesium beam tube; Frequency synthesis; Pulse method; *14829*. **SP305-7**.
- Ramsey resonance; Saturated absorption; Stabilized laser; Transition probability; Frequency standard; Methane resonance; Molecular beam; *13800*. **SP305-5**.
- Random; Degree of precision; Hadamard matrices; Integration; Monte Carlo; Multiple integrals; Numerical integration; Numerical methods; Quadrature; *11583*. **SP305-2**.
- Random; Ratio; Systematic; Sum; Approximation; Error; Formula; Imprecision; Law of error; Products; Propagation of error; *J70C4-237*, *263-273* (1966). **SP305**.
- Random alloy; Vacancies; Activation analysis; Concentrated alloys; Correlation factor; Diffusion; *12167*. **SP305-3**.
- Random alloy model; Vacancies; Alloys; Atom jump frequencies; Binary alloys; Correlation factor; Diffusion; Multicomponent alloys; *12411*. **SP305-4**.
- Random alloys; Thermodynamic equations; Alloys; Cross terms; Diffusion; Multicomponent alloys; *11595*. **SP305-2**.
- Random component; Thermal decomposition; Volatilization; High pressure; Initiation rate; Poly-3,3,3-trifluoropropene; Pyrolysis; *10092*. **SP305-1**.
- Random effects; Tests of significance; Analysis of variance; Chi-square distribution, F-distribution; Components of variance; Confidence intervals; Estimation; Fixed effects; Model I; Model II; *12643*. **SP305-4**.
- Random error; Skewness; Surface microtopography; Surface roughness; Surface texture; Systematic error; Amplitude density function; Arithmetic average; Autocorrelation function; Average wavelength; Kurtosis; Minicomputer software; *TN902*. **SP305-8**.
- Random error; Systematic error; Sodium nitroprusside; Iron compounds; Optical Mossbauer spectrometer; Tandem Mossbauer spectrometer; Velocity calibration; Mossbauer; Spectroscopy; Standard; Differential chemical shift; Quadrupole splitting; *M260-13*. **SP305**.
- Random errors; Slit function; Slit width-resonance width ratio; Systematic errors; Beutler-Fano resonance profiles; Least squares analysis; Parameter correlation; *11578*. **SP305-2**.
- Random errors; Systematic errors; Thorium chemical yield; Bio-assay; Carbon-14; Detection efficiency; Isotope dilution; "over-all" yield; Radiochemical analysis; *9652*. **SP305-1**.
- Random errors in molar absorptivity; Systematic errors in molar absorptivity; Molar absorptivity in clinical chemistry; *SP378*, pp. 109-115. **SP305-5**.
- Random errors in molar absorptivity; Systematic errors in molar absorptivity; Molar absorptivity in clinical chemistry; *J.76A No. 5*, 483-489 (1972). **SP305-4**.
- Random faults; Reliability; Test patterns; TTL; Vendor qualification; Circuit procurement; Component screening; Custom circuits; LSI; Microelectronics; Parameter control; Process uniformity; *16620*. **SP305-8**.
- Random index variation; Self focusing; Laser damage; Non-linear index; *SP387*, pp. 49-56. **SP305-5**.
- Random noise; Reasonable perturbations; Spectral density; 1/f noise; Flicker noise; Low frequency noise; Mechanical model; Modulation noise; Noise; Noise model; Noise simulation; Precision measurements; *10555*. **SP305-1**.
- Random number generators; Congruential generators; Multidimensional distributions; *J.73B No. 1*, 41-44 (1969). **SP305-1**.
- Random numbers; Random permutations; Randomization; Draft lottery; *12709*. **SP305-4**.
- Random numbers; Sequences; Uniform distribution; Equidistribution; Numerical analysis; Pseudo-random; Quadrature; *11629*. **SP305-2**.
- Random numbers; Statistics; Bernoulli; Binomial; Coin-tossing; Computer; Efficiency; Generator; *J.76B Nos. 1 and 2*, 53-60 (1972). **SP305-4**.
- Random permutations; Randomization; Draft lottery; Random numbers; *12709*. **SP305-4**.

- Random phase approximation; Tight-binding; Augmented plane wave method (APW); Electronic density of states; K-p method; LCAO; Lead telluride (PbTe); Optical properties; Pseudopotential; *SP323*, pp. 115-123. **SP305-4.**
- Random process; Safety; Statistical analysis; Structural engineering; Failure; Probability theory; *SP444*, pp. IV-1—IV-15 (Apr. 1976). **SP305-8.**
- Random process; Spectral analysis; Vibration; Analysis; Experimental; Floor systems; Human response; *TN904*. **SP305-8.**
- Random process; Spectral analysis; Vibration; Analysis; Experimental; Floor systems; Human response; *NBSIR 75-951*. **SP305-8.**
- Random processes of physical origin; Turbulent field; Acoustic noise; Air or water flow; Atmospheric and oceanographic turbulence; Boundary layer turbulence; Higher-order correlations; Physical origin; *9729*. **SP305-1.**
- Random sample; Two-point binomial; Variance; Distribution; Parameter; Probabilities; *10987*. **SP305-2.**
- Random sampling; Risettime; Sampling; Time base; Transition time; Mercury switch; Oscilloscope; Picosecond; Pulse; *13799*. **SP305-5.**
- Random sampling; Risettime; Sampling; Transition time; Mercury switch; Oscilloscope; Picosecond; Pulse; *14262*. **SP305-6.**
- Random sampling; Sampling head; Sampling oscilloscope; Spark-gap; GHz; Impulse; Picoseconds; *12518*. **SP305-4.**
- Random sampling; X-ray fluorescence; Lead paint; Lead paint detection; Lead paint programs; Lead poisoning; Portable x-ray fluorescence; *TN921*. **SP305-8.**
- Random surfaces; Reflectance; Reflectance of coherent radiation; Scattering; Scattering theory; Surface roughness; Transmittance; Bibliography; Emittance; Heat transfer; Measurement techniques; Periodic surfaces; Polarization; *J. Res.* **80A** No. 2, 207-220 (1976). **SP305-8.**
- Random variability; Standard deviation; Systematic error; Uncertainty; Mass measurement; *13402*. **SP305-5.**
- Random variable; Singular value decomposition; Eigenvalues; Independence; Quadratic form; *J. Res.* **80B** No. 3, 333-335 (1976). **SP305-8.**
- Random variables; Restricted chains; Theta point; Transition probabilities; Volume exclusion; Linear polymers; Markov chains; Order-disorder transitions; *11646*. **SP305-2.**
- Random variables; Statistical distributions; Tables of probability distributions; Transformation of variables in probability distributions; Bayes' theorem; Central limit theorem; Characteristic function of a distribution; Mathematical probability; *10926*. **SP305-2.**
- Random vibration; Test; Transfer impedance; Transmissivity equalization; Vibration; Acceleration response; Evaluation; Fatigue life; Lumped parameter system; Mechanical impedance; *SP336*, pp. 509-524. **SP305-3.**
- Random walk; Adsorption; Chain polymer; Lattice model; Partition function; *12374*. **SP305-3.**
- Random walk; Adsorption; Chain polymer; Critical energy; Generating function; Lattice model; Partition function; *J70B4-185*, 237-247 (1966). **SP305.**
- Random walk; Adsorption; Chain polymer; Critical energy; Generating function; Lattice model; Partition function; *10031*. **SP305-1.**
- Random walk; Chain polymer; Degenerate Dvoretzky-Erdős problem; Lattice model; *12909*. **SP305-4.**
- Random walk; Lattice; Nonreversing walk; Polymer dimension; *J73B* No. 1, 45-46 (1969). **SP305-1.**
- Random walk; Relaxation; Stochastic process; Chain dynamics; Polymers; *11786*. **SP305-2.**
- Random walk; Review article; Thermodynamic diffusion equations; Vacancy diffusion mechanisms; Atomic diffusion mechanisms; Diffusion; *15539*. **SP305-7.**
- Random walk; Symmetry plane; Vacancy; Correlation factor; Diffusion; Drift mobility; Electric field; *15367*. **SP305-7.**
- Random walk; Tracer diffusion; Calculations; Correlation factors; Di-vacancy and impurity-vacancy pairs; *9789*. **SP30.**
- Random walk; Vacancies; Atom transport; Diffusion in crystal; Kinetic diffusion equations; Mechanism for diffusion; *15*. **SP305-7.**
- Random walk frequency modulation; Spectral density; frequency fluctuations  $S_d(f)$ ; White phase modulation; variance; Flicker of frequency modulation; Johnson noise; Linewidth; *14828*. **SP305-7.**
- Random walk model; Adhesion; Grand canonical ensemble; malism; Polymer adsorption; *12447*. **SP305-4.**
- Random walks; Boltzmann factors; Importance sampling; Monte Carlo; Non-selfintersecting walks; Polymer configurations; *J. 76B* Nos. 3 and 4, 193-200 (1972). **SP305-4.**
- Random walks; Stable distributions; Abelian summation; derved spans; *16011*. **SP305-8.**
- Random walks; Thermodynamics; Excluded volume; Monte Carlo; Polymers; *11218*. **SP305-2.**
- Random-access-memory (RAM); Silicon; Cells; Charge-coupled device (CCD); Chevron; Garnet; Large-scale-integrated (LSI); Line width; Lithography; Magnetic bubble device (MB); Memory storage density; N-channel metal-oxide semiconductor (N-MOS); *16647*. **SP305-8.**
- Random-coil; End-to-end length; Monte Carlo; Polymer dynamics; *14401*. **SP305-6.**
- Randomization; Draft lottery; Random numbers; Random mutations; *12709*. **SP305-4.**
- Randomization; Restricted randomization; Experimental design; Philosophy of design; *11331*. **SP305-5.**
- Randomization, constrained; Ruggedness test; Statistical techniques; Youden plot; Youden squares; Youden, W. Calibration designs; Chain blocks; Collaborative tests; L nistic tests, index for rating; Experiment design, statistical; Graphical diagnosis; *16115*. **SP305-8.**
- Random-walk noise; Renewal equation; Renewal process; Statistics of clock ensembles; White noise; Zero cross; Clock errors; Dispersion of clock reading; Flicker noise; *11332*. **SP305-2.**
- Random-walk theory; Vacancy motion; Atomic diffusion; defect motion; Interstitial motion; Jump frequency; Lattice model; Migration energy; Migration entropy; Molecular dynamics; *12022*. **SP305-3.**
- Range-iron-activation; Catalysis; Mössbauer effect; *16*. **SP305-8.**
- Range; Samples of size 3; Statistics; Mean deviation; *11*. **SP305-2.**
- Range; Scattering; Depth; Deuterium; Diffusion; Elastic; um; Migration; Oxide; Proton; *SP425*, pp. 488-491. **SP305-7.**
- Range; Stopping power; Bremsstrahlung efficiency; Electrons; Mesons; Protons; *9580*. **SP305-1.**
- Range; Time; VLF; Dispersion; *10372*. **SP305-1.**
- Range measurements; Interferometric measurements; Interferometry; Modulated laser beams; Radio frequency techniques; *10172*. **SP305-1.**
- Ranges; Reaction time; Safety; Warning lights; Consumer products; Human factors; Kitchen; *NBSIR 75-797*. **SP305-1.**
- Ranges; Self-absorption; Uranium oxide; Alpha particle; Backscattering; Disintegration rate; *15808*. **SP305-8.**
- Ranges; Simulation; Algorithms; Least-squares; Multilayer; Position-location; *14387*. **SP305-6.**
- Ranges of homogeneity; Stability; Systems; Analysis; H phase; Intergrowth phase; Niobium pentoxide; Preparation; *SP364*, pp. 63-86. **SP305-4.**
- Rank; Algorithm; Matrix; Block; *J70B3-183*, 219-220 (1966). **SP305.**
- Rank; Determinant; Generalized matrix function; Invariant matrices; *J75B*, Nos. 3 and 4, 109-115 (1971). **SP305-3.**
- Rank; Symmetric matrix; Eigenvalues; Matrix; Principal matrices; *J72B*, No. 2, 115-125 (1968). **SP305-1.**



- ; Symmetric matrix; Matrix; Principal submatrices; *J.72B* 4, 249-252 (1968). **SP305-1.**
- sum statistics; Statistics; c Sample problem; Covariances; Mann-Whitney-Wilcoxon statistics; *J.76B* Nos. 1 and 2, 51- (1972). **SP305-4.**
- N; R & D incentives; Tissue characterization; Tissue signage; Ultrasonic diagnosis; Ultrasound; Applied research; aging; Instrumentation technology; Medical ultrasonics; *F. SP453*, pp. 7-10 (Oct. 1976). **SP305-8.**
- N; Research grants; Fire programs; Fire research; National Science Foundation; *SP411*, pp. 230-238. **SP305-6.**
- N; Sponsorship; Structural engineering; Earthquake engineering; Grant; *SP444*, pp. V-66-V-79 (Apr. 1976). **SP305-8.**
- 10.6  $\mu\text{m}$ ; Etch-polishing; KCl; Laser damage; Laser windows; *SP414*, pp. 66-75. **SP305-6.**
- grown materials; Alkali halide crystals; Laser induced damage; *SP462*, pp. 346-349 (Dec. 1976). **SP305-8.**
- materials; Transmitted pulse cutoff; Variable pulse duration; Alkali halides; Bulk damage; Longitudinal mode control; Pulsed 10.6  $\mu\text{m}$  laser damage; *SP435*, pp. 118-125 (Apr. 1976). **SP305-8.**
- d analysis; Uranium; Coal; Fission track technique; Fly ash; ca detector; Polycarbonate detector; *15457*. **SP305-7.**
- d heating; Surface pyrolysis; Surface temperature measurement; Thermal degradation; Combustion; Flammability; kinetics; Polymer burning; Pyrolysis; *SP357*, pp. 185-192. **SP305-4.**
- d quenching; Aluminum alloys; Bulk alloy samples; Cast; Directional solidification; *14973*. **SP305-7.**
- d radiochemical separation; Sodium; Coincidence spectrometry; Oxygen; Photon activation analysis; *11642A*. **SP305-2.**
- d radiochemical separation; Solvent extraction; Trace analysis; Uranium; Biological materials; Neutron activation analysis; *12817*. **SP305-4.**
- d separation; Solvent extraction; Cerium; Linac; Isoscedium; Precipitation; Radioactive; *10387*. **SP305-1.**
- d-cycling bubble chamber; Sonic bubble chamber; Bubble chamber; Helmholtz resonators; *13821*. **SP305-6.**
- city of convergence; Aitken transformations; G-transformations; Nonlinear transformations; *J.73B* No. 3, 251-274 (1969). **SP305-1.**
- earth; Atomic spectroscopy; Electronic energy levels; Neutral atom; Promethium; *J.71A6-475, 587-599* (1967). **SP305.**
- earth; Sliding spark discharge lamp; Spectrum; Atomic energy levels; Isoelectronic sequence; Praseodymium; *J.71A6-474, 583-585* (1967). **SP305.**
- earth; Sliding spark discharge lamp; Spectrum; Uranium; Pratinide; Atomic energy levels; Isoelectronic sequence; Promethium; *15990*. **SP305-8.**
- earth; Ternary chalcogenides; Transition metals; Crystal structure; Magnetic properties; *SP364*, pp. 645-650. **SP305-**
- earth alloys; Amorphous magnetism; Direct current sputtering; Inelastic neutron scattering; Magnetic structures; Magnetism; Neutron diffraction; *16555*. **SP305-8.**
- earth apatites; Crystal structure;  $\text{Ln}_2\text{M}_{10-22}\text{Na}_2(\text{PO}_4)_x\text{F}_x$ ; *1509*. **SP305-6.**
- earth chalcogenides; Synthesis; Coevaporation of elements; *SP364*, p. 723. **SP305-4.**
- earth elements; Trace element models; Volcanic rocks; analytical techniques; Fractional crystallization; Geochemistry; Isotope dilution; Partial melting; *SP422*, pp. 937-949 (Aug. 1976). **SP305-8.**
- earth fluorides; Zinc selenide coatings; Laser antireflective coatings; Materials purification requirements; Pulsed laser damage; *SP462*, pp. 271-278 (Dec. 1976). **SP305-8.**
- Rare earth glass; Energy transfer; Eu and Nd doped glass; Fluorescence; Fluorescence decay times; Fluorescence quenching; Laser glass; *11831*. **SP305-3.**
- Rare earth intermetallic compounds; Aromatic compounds; Chemical bond; Electronic density of states; Fermi surface; Pauling radii; Transition metals; *SP323*, pp. 385-405. **SP305-4.**
- Rare earth metals; 4f electron excitations; Photoelectron spectroscopy; *15841*. **SP305-8.**
- Rare earth metals and alloys; Soft x ray; Alloy data; Bibliography; Index; Knight shifts; NMR; *14744*. **SP305-7.**
- Rare earth optical spectra; Rare earth oxide; Refractory materials; Thin films; 4  $f^0$  configurations; Complex ions; Coordination polyhedra; Nonstoichiometry; Polymolecular frameworks; *SP364*, pp. 367-383. **SP305-4.**
- Rare earth oxide; Refractory materials; Thin films; 4  $f^0$  configurations; Complex ions; Coordination polyhedra; Nonstoichiometry; Polymolecular frameworks; Rare earth optical spectra; *SP364*, pp. 367-383. **SP305-4.**
- Rare earth oxides; Boric oxide; Liquid immiscibility; Phase equilibria; *9887*. **SP305-1.**
- Rare earth research; Yttrium monofluoride; Electronic band spectrum; *10682*. **SP305-1.**
- Rare earth spectra; Astrophysical data on rare earths; Atomic spectra; Configurations; Ground states; *11795*. **SP305-2.**
- Rare earth spectra; Transition probabilities; Ultraviolet spectra; Atomic spectra; Lanthanum spectra; Molecular spectra; *10406*. **SP305-1.**
- Rare earth spectra; Transition probabilities; Analyses of optical spectra; Atomic spectra; Data centers; Molecular spectra; *11236*. **SP305-2.**
- Rare earth tungsten oxides; Rare earth tungsten oxides;  $\text{RE}_2\text{O}_3\text{-WO}_3$  compounds; RE-W-O systems; Fluorite-related structures; *SP364*, pp. 397-411. **SP305-4.**
- Rare earth tungsten oxides;  $\text{RE}_2\text{O}_3\text{-WO}_3$  compounds; RE-W-O systems; Fluorite-related structures; Rare earth tungstates; *SP364*, pp. 397-411. **SP305-4.**
- Rare earths; Amorphous materials; Magnetic materials; Neutron diffraction; *15388*. **SP305-7.**
- Rare earths; Atomic spectra; Energy levels; *13508*. **SP305-5.**
- Rare earths; Atomic spectra; Ionization energies; Lanthanides; Spectra; *15576*. **SP305-7.**
- Rare earths; Autoionization; Exchange interaction; Photoabsorption transition elements; *12275*. **SP305-3.**
- Rare earths; Germanate; X-ray powder analysis; Garnet; Hydrogarnet; Inorganic synthesis; *10659*. **SP305-1.**
- Rare earths; Relative quantum efficiencies; Solution standards; Emission spectra; Excitation spectra; Fluorescence; Fluorescence standards; Glass standards; Quinine derivatives; *SP378*, pp. 231-244. **SP305-5.**
- Rare earths; Relative quantum efficiencies; Solution standards; Emission spectra; Excitation spectra; Fluorescence; Fluorescence standards; Glass standards; Quinine derivatives; *J.76A* No. 6, 641-654 (1972). **SP305-4.**
- Rare earths; Reversed-phase chromatography; Di(2-ethylhexyl) orthophosphoric acid, Corvic; NBS Standard Reference Material 480; Neutron activation analysis; *14110*. **SP305-6.**
- Rare earths; Semiconductors; Barium titanate; Barium titanate oxalate; Neodymium; *11661*. **SP305-2.**
- Rare earths; Series; Calculation; Ionization; Neutral; *9384*. **SP305.**
- Rare earths; Silicate glasses; Europium; Fluorescence; Lifetimes; Luminescence; Nonradiative rates; Oscillator strengths; Quantum efficiencies; Radiative rates; *14276*. **SP305-6.**
- Rare earths; Spectroscopy; Atoms; Classification; Energy levels; Ions; *16022*. **SP305-8.**
- Rare earths; Yttrium; Coincidence spectrometry; Photon activation analysis; *11372*. **SP305-2.**

- Rare earths, as an internal reference; Rare earths, determination of trace amounts; Fluorescence method analysis; *SP422*, pp. 1103-1107 (Aug. 1976). **SP305-8.**
- Rare earths, determination of trace amounts; Fluorescence method analysis; Rare earths, as an internal reference; *SP422*, pp. 1103-1107 (Aug. 1976). **SP305-8.**
- Rare gas; Charge transfer; Ion-molecule reactions; Methane; Photolysis; *11095*. **SP305-2.**
- Rare gas; Sensitization; Vacuum ultraviolet photolysis;  $\text{CO}_2$ ; Energy transfer; Quantum yield; *11781*. **SP305-2.**
- Rare gas; Shift; Core level; Implant; Noble metals; *16080*. **SP305-8.**
- Rare gas ionization chamber; Thermopiles; Tungsten; Vacuum ultraviolet; Anodized aluminum; Chromium; Gold; Photoelectric yield; Radiometric standards; *14708*. **SP305-6.**
- Rare gas ions; Rate constants; Silane; Charge transfer; Franck-Condon factors; Ion-molecule reactions; Methane; *14839*. **SP305-7.**
- Rare gas levels; (Vacuum ultraviolet) sensitized decomposition; Energy transfer; Hydrocarbons; Photochemistry; Quantum yields; *11128*. **SP305-2.**
- Rare gas matrix; Spectrum; Hydrogen bromide; Hydrogen chloride; Infrared; *9359*. **SP305.**
- Rare gas photosensitization; Vacuum ultraviolet photochemistry; Emission spectroscopy; Energy level of diatomic molecules; Energy transfer; Gas phase kinetics; *11127*. **SP305-2.**
- Rare gases; Angular distribution; Asymmetry; Photoionization; *15299*. **SP305-7.**
- Rare gases; Cross sections; Excited states; Ionization; Mass spectrometry; Radiation chemistry; *14832*. **SP305-7.**
- Rare gases; Resonance lamps; Saturation ion current; Aluminum window; Extinction coefficients; Ionization quantum yield; Photochemistry; Photoionization; *TN496*. **SP305-1.**
- Rare gases; Thermal conductivity; Thermal diffusion; Viscosity; Carbon dioxide; Diffusion; Dispersion coefficients; Methane; *m-6-8* potential; Nitrogen; Oxygen; *12862*. **SP305-4.**
- Rare gases; Thermal conductivity coefficient; Viscosity coefficient; Dilute gas; Kinetic theory; *m-6-8* potential function; *J. Phys. Chem., Ref. Data* 2, No. 3, 619-642 (1973). **SP305-6.**
- Rare gases; Velocity autocorrelation function; *11-6-8* potential; Axilrod-Teller correction; Dense liquid; Excess function; Hydrodynamic limit; Molecular dynamics; *15168*. **SP305-7.**
- Rare sugars; Rearrangement; 1,3-dioxolane rings; Fructose; Gas-liquid chromatography; *11866*. **SP305-3.**
- Rare-earth; Relaxation; Spin-lattice; Trichlorides;  $\text{Ce}^{3+}$ ,  $\text{Nd}^{3+}$ ,  $\text{Sm}^{3+}$ ,  $\text{Ho}^{3+}$ , and  $\text{Er}^{3+}$ ; Electron-lattice interaction;  $\text{LaCl}_3$ ; Pulsed microwave; *9924*. **SP305-1.**
- Rare-earth; Spin-lattice relaxation; *9236*. **SP305.**
- Rare-earth;  $\text{TmAsO}_4$ ; Cooperative distortion; Jahn-Teller distortion; Magnetically controllable distortion; *12657*. **SP305-4.**
- Rare-earth; Vatterite; Borates; *9592*. **SP305-1.**
- Rare-earth borides; Borides; Lattice constants;  $\text{LnB}_6$  compounds; Melting temperatures; Microhardness; *SP364*, pp. 597-604. **SP305-4.**
- Rare-earth doping; Anelastic relaxation;  $\text{CaF}_2$ ; Density; Dielectric relaxation; EPR; Equilibria; Point defects; *12939*. **SP305-4.**
- Rare-earth elements; Samarium compounds; Terbium compounds; Thulium compounds; Ytterbium compounds; Cerium compounds; Dysprosium compounds; Enthalpy; Entropy; Erbium compounds; Europium compounds; Gadolinium compounds; Gibbs energy of formation; *TN270-7*. **SP305-5.**
- Rare-earth garnet; X-ray powder analysis; Crystal chemistry; Hydrothermal synthesis; *10370*. **SP305-1.**
- Rare-earth lanthanides; Specific heats; Spin-wave theory; Thulium; Anti-ferromagnet; Anti-phase domain; Augmented plane wave method (APW); Curie temperature; Electronic density of states; Enhancement factors; Erbium; *SP323*, pp. 571-577. **SP305-4.**
- Rare-earth magnets; X-ray photoelectron; Electronic structure; ESCA; Hard magnets; Magnetic materials; Photoelectron spectroscopy; *14231*. **SP305-6.**
- Rare-earth metals; UV and x-ray photoemission; X-ray photoemission; Barium (Ba);  $\beta$ -tungsten compounds; Eff of oxidation; Electronic density of states; Europium (Eu); Lanthanides; Matrix elements; Photoemission; *SP323*, 217-220. **SP305-4.**
- Rare-earth silicate; Solid solubility; X-ray powder analysis; Crystal chemistry; Gel-preparation; Inorganic synthesis; Mineral identification; Polymorphism; *10998*. **SP305-2.**
- Rare-earth silicate; X-ray powder analysis; Ca, Mg phosphates; Hydrothermal synthesis; Inorganic synthesis; Mineral chemistry; *J.72A No. 4, 355-358* (1968). **SP305-1.**
- Rare-earth spectra; Reference data programs; Solar spectra; Spectra of late-type stars; Sun-spot spectra; Atomic spectra; Molecular spectra; *9950*. **SP305-1.**
- Rare-earth spectra; References to atomic spectra; Spectra; Elements, spectra of rare-earths; Analyses of rare-earth spectra; Atomic spectra; La thru Lu, Ac thru Th; *SP306-4*. **SP305-1.**
- Rare-earth spectra; Regularities, atomic spectra; Solar spectra; Atomic spectra; Coronal spectra; Periodicities, atomic spectra; *12288*. **SP305-3.**
- Rare-earth spectra; Spectra; Spectra, atomic; Spectra, rare-earth; Atomic spectra; Coronal spectra; *11987*. **SP305-3.**
- Rare-earth spectra; Solar spectrum; Transition probabilities; Atomic spectra; *9949*. **SP305-1.**
- Rare-earth spectra; Spectra, far ultraviolet; Transition probabilities; Atomic spectra; Multiplet tables; *9210*. **SP305.**
- Rare-earth spectra; Transition probabilities; Triplets; Commitment for spectroscopy; Ultraviolet atomic spectra; Atomic spectra; *9951*. **SP305-1.**
- Rare-earth trihalides; Spontaneous magnetization; Heat capacity; Linear chain models; Low temperature; Magnetic properties; Magnetic susceptibility; Nuclear quadrupole resonance; *11271*. **SP305-2.**
- Rare-earth-doped glasses; Fluorescence standards, inorganic glasses and standards in fluorescence; *SP378*, pp. 203-204. **SP305-5.**
- Rare-earth-doped glasses; Fluorescence standards, inorganic glasses; Glass standards in fluorescence; *J.76A No. 6, 613-614* (1972). **SP305-4.**
- Rare-earths; Review; Spectroscopy; Transition probabilities; Atomic spectra; Cross section; *f*-values; Molecular spectra; Photoionization; *12683*. **SP305-4.**
- Rare-gas; Spectra; Alkali-metal; Continuum; Molecules; *13-305*. **SP305-6.**
- Rare-gas ions; Uranium; Alkali ions; Calcium; Charge exchange; Charge transfer; Cross section calculations; Atom collisions; *16126*. **SP305-8.**
- Rare-gas oxide excimers; Ab initio potentials; Argon oxide; Collision-induced emission; *15868*. **SP305-8.**
- Rare-gas resonance radiation; Unimolecular dissociation; molecule reaction; Photoionization; Propane; Quantum yields; *J.75A No. 6, 605-610* (1971). **SP305-3.**
- RAS (Recherches en Aménagements Scolaires); SCSD (School Construction System Development); SEF (Study of Educational Facilities); SSP (Schoolhouse Systems Program); *SP361*, Vol. 1, pp. 297-301. **SP305-4.**
- Rat skin; Soft tissue; Bone; Collagen; Grafting modification; collagenous surfaces; Hard tissue; *15531*. **SP305-7.**
- Rate; Calorimetric; Cellulose; Flammability; Flame retardancy; Heat; Phosphorus; *14603*. **SP305-6.**
- Rate; Cryogenic; Crystallization; Freezing; Growth; Hydrothermal; Liquid-solid phase; Melting; Nucleation; Particle production; *9925*. **SP305-1.**

Vacuum ultraviolet; Acetylene; Combination; Ethane; Ethylene; Flash photolysis; Gas phase; Hydrogen; Hydrogen fluoride; Insertion; Methane; Methylene; 9286. SP305.

coefficient; Carbon dioxide; Cross section; Electrons; Excitation; Infrared; 16256. SP305-8.

coefficient; Vapor phase; Alkanes; Ion-molecule reactions; Mass spectrometry; Photoionization; 13003. SP305-4.

coefficients;  $\text{CCl}_4$ ,  $\text{CF}_4$ ,  $\text{CCl}_3\text{H}^+$ ,  $\text{CF}_3\text{H}^+$ ; Displacement reactions; Four-center reactions; Ion molecule reactions; Ion affinity; Proton transfer; 16598. SP305-8.

coefficients; Charge transfer; H-atom transfer reactions; Hydrogen halides; Ion molecule reactions; Ion cyclotron spectrometry; 16362. SP305-8.

coefficients; Chemical kinetics; Data evaluation; Gas phase; Hydrocarbons; Ion-molecule reactions; Mass spectrometry; JPCRD 5, No. 4, 1123-1146 (1976). SP305-8.

coefficients; Reaction cross sections; Cross sections; Nonequilibrium kinetics; 10788. SP305-1.

coefficients; Reactions; Atoms; Bibliography; Cross-sections; Ions; Molecules; SP381. SP305-5.

coefficients; Recombinations; Scattering theory; Chemical reactions; Collision theory; Cross sections; Dissociation; Hot ions; Isotope effects; Kinetics; Molecular beams; Quantum mechanics; 16591. SP305-8.

coefficients; Resonance lines; Atomic cross sections; Atomic data; Atomic physics; 14590. SP305-6.

coefficients; Scattering theory; Trajectories; Transition-state theory; Chemical reactions; Chlorine molecules; Classical scattering matrix theory; Collision theory; Cross sections; Hydrogen atoms; 16627. SP305-8.

coefficients; Transition-state theory; Chemical reactions; Collision theory; Hydrogen atoms; Hydrogen molecules; Indistinguishable particles; Nuclear spin; 16214. SP305-8.

constant; Absorption spectroscopy; Combination; Fluorine; Methyl; Radical; 13915. SP305-6.

constant; Acetylene; Activation energy; Atomic nitrogen; Chemical kinetics; Olefins; 10653. SP305-1.

constant; Activation-energy; Atom-transfer reaction; Carbon dioxide; Carbon monoxide; Gas phase; Hydrogen atom; Hydroxyl-radical; 9328. SP305.

constant; Active nitrogen; Atomic nitrogen; Carbon dioxide; Mass spectrometry; 10654. SP305-1.

constant; Air pollution; Ethene; Kinetics; Mass spectrometry; Ozone; Propene; 15234. SP305-7.

constant; Air pollution; Kinetics; Mass spectrometry; Methyl; Ozone; Photochemical smog; 15355. SP305-7.

constant; Alkane; Atomic oxygen; Chemical kinetics; Mass spectrometry; Organic compounds; 11325. SP305-2.

constant; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase; Photoabsorption cross section; Photochemistry; Quantum yield; TN866. SP305-7.

constant; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase; Photoabsorption cross section; Photochemistry; Quantum yield; 16067. SP305-8.

constant; Atomic oxygen; Bromoalkane; Chemical kinetics; Chloroalkane; Mass spectrometry; Organic compounds; 11324. SP305-2.

constant; Atomic oxygen; Ethylene; Formaldehyde; Kinetics; Mass spectrometry; Mechanisms; 10982. SP305-2.

constant; Combination; Flash photolysis-gas chromatography; Methyl; Methylene; Radicals; 15205. SP305-7.

constant; Gas phase reactions of OH with CO, NO, and  $\text{O}_3$ ; Laser magnetic resonance; 14556. SP305-6.

constant; Kinetics; Mass spectrometry; Nitrogen dioxide; Methyl; Ozone; 14956. SP305-7.

constant; Reactions; Singlet oxygen; Air pollution; Kinetics; organic compounds; 14343. SP305-6.

constant; Resonance fluorescence; Vacuum-uv; Activation energy; H atoms;  $\text{H}_2\text{S}$ ; 12074. SP305-3.

Rate constant; Review; Activation energy; Chemical kinetics; Combustion; J. Phys. Chem. Ref. Data 1, No. 2, 535-573 (1972). SP305-6.

Rate constant; Singlet; Triplet; Inorganics; Methylene; Radical; 14701. SP305-6.

Rate constant; Singlet oxygen;  $\text{O}_2$   $\Delta_g$ ; Chemical kinetics; Mass spectrometry; Olefins; 13298. SP305-5.

Rate constant; Stratosphere; Air pollution; Nitrogen dioxide; Ozone; 14539. SP305-6.

Rate constant; Undercooling; Cilia; Dissolution temperature; Fractionation; J.76A No. 3, 213-223 (1972). SP305-4.

Rate constant; Vacuum ultraviolet; CH; Flash photolysis; Hydrogen; Kinetic spectroscopy; Methane; Nitrogen; 9597. SP305-1.

Rate constant; Vapor phase; Ion-molecule reaction; Mass spectrometry;  $\text{N}_2\text{O}$ ; 14464. SP305-6.

Rate constant data; Chemical kinetics; CODATA kinetics task group; Compilation; Evaluation; Kinetics; National programs; 14319. SP305-6.

Rate constants; Alkane ions; Alkanes; Charge transfer; Ion-cyclotron resonance; Ion-molecule reactions; Ionization potentials; 16506. SP305-8.

Rate constants; Alkanes; Excited states; Ion-molecule reactions; Mass spectrometry; Photoionization; 11829. SP305-3.

Rate constants; Alkyl halides; Ion-molecule reactions; Mass spectrometry; Photoionization; Radiolysis; 14465. SP305-6.

Rate constants; Alkylhalides; Far ultraviolet photochemistry; Free radicals; Hydrogen atoms; Photochemical dissociation; 14462. SP305-6.

Rate constants; Amines; Collisional stabilization; Ionization energy effect; Mass spectrometry; Photoionization; 14463. SP305-6.

Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reactions; Optical absorption cross sections; Photochemistry; Quantum yields; 13563. SP305-5.

Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Energy transfer; Gas phase; High temperature air chemistry; Ion-molecule reactions; Optical absorption cross sections; Photochemistry; Quantum yield; 13597. SP305-5.

Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reaction; Optical absorption cross section; Photochemistry; Quantum yield; 13770. SP305-5.

Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Gas phase reactions; Optical absorption coefficients; Photochemistry; Quantum yields; J. Phys. Chem. Ref. Data 2, No. 2, 267-311 (1973). SP305-6.

Rate constants; Atmospheric chemistry; Chemical kinetics; Data evaluation; Energy transfer; Gas phase; High temperature air chemistry; Ion-molecule reactions; Optical absorption cross sections; Photochemistry; Quantum yield; NBSIR 74-430. SP305-6.

Rate constants; Atom reactions; Compilation; Critical evaluation; Gas phase reactions; Radical reactions; COM-72-10014. SP305-4.

Rate constants; Atomic oxygen; Chemical kinetics; Compilation; Critical evaluation; Gases; Organic compounds; J. Phys. Chem. Ref. Data 2, No. 3, 467-518 (1973). SP305-6.

Rate constants; Atomic oxygen; Gas phase; Kinetics; Mechanism; Organic compounds; 15240. SP305-7.

Rate constants; Carbonyl compound; Four-center reactions; Halocarbon ions; Ion cyclotron resonance; Ion-molecule reaction; 15384. SP305-7.

Rate constants; CO;  $\text{CO}_2$ ; Ion-molecule reactions;  $\text{O}_2$ ; Photoionization; Radiolysis; J.78A No. 3, 315-322 (1974). SP305-6.

Rate constants; Collision processes; Halocarbon ions; Hydrocarbons; Ion-molecule reactions; Kinetics; 15811. SP305-8.

Rate constants; Combination; Kinetics; Methyl; Nitric oxide; Oxygen; 15328. SP305-7.

Rate constants; Fluorocarbons; Heats of formation; Ion-molecule reactions; Mass spectrometry; Photoionization; *J.78A No. 2, 151-156 (1974)*. SP305-6.

Rate constants; Gas phase; Hydrocarbons; Ion-molecule reactions; Mass spectrometry; Photoionization; *J.75A No. 3, 147-153 (1971)*. SP305-3.

Rate constants; Gas phase; Hydrocarbons; Kinetics; Mass spectrometry; Photoionization; 15850. SP305-8.

Rate constants; Ion molecule reactions; Mass spectrometry; Neopentane; Photoionization; Proton affinity; *J.75A No. 5, 487-493 (1971)*. SP305-3.

Rate constants; Ion-molecule reaction; Ion structure; Ionic fragmentation; Radiation chemistry; 14884. SP305-7.

Rate constants; Kinetics; Nitric oxide; Nitrogen dioxide; Oxygen; Oxygen atoms; 9848. SP305-1.

Rate constants; Rate evaluations; Art of evaluation; Chemical reactions; Quality control measures; 13484. SP305-5.

Rate constants; Reaction mechanisms; Vinyl halides; Ion-molecule reactions; Mass spectrometry; Photoionization; 14844. SP305-7.

Rate constants; Reaction rates; Arrhenius parameters; Chemical kinetics; Critical review data; Gas phase; Mechanisms; Molecular reactions; *NSRDS-NBS51*. SP305-2.

Rate constants; Reactions; Tables; Activation energies; Arrhenius equation; Bimolecular; Chemical kinetics; Data; Gas; *NSRDS-NBS9*. SP305.

Rate constants; Reference data; Abstraction reactions; Addition reactions; Aqueous solution; Biological molecules; Electron transfer reactions; Hydroxyl radical; Oxide radical ion; Radical reactions; *NSRDS-NBS46*. SP305-5.

Rate constants; Reference data; Chlorine atom reactions; Hydrogen transfer reactions; Liquid phase; Organic molecules; Organic radical reactions; *J. Phys. Chem. Ref. Data 3, No. 4, 937-978 (1974)*. SP305-6.

Rate constants; Review; Sulfur chemistry; Tables; Activation energies; Evaluation; Gaseous reactions; Radical reactions; *J. Phys. Chem. Ref. Data 2, No. 1, 25-84 (1973)*. SP305-6.

Rate constants; Self-nucleation; Steady-state; Cilia; Conformational entropy; Free energy; Nucleation rate; 12293. SP305-3.

Rate constants; Silane; Charge transfer; Franck-Condon factors; Ion-molecule reactions; Methane; Rare gas ions; 14839. SP305-7.

Rate constants; Spiropentane; Cycloheptane; Cyclohexane; Cyclopentane; Oxygen; *J.76A No. 2, 77-80 (1972)*. SP305-4.

Rate constants; Stratosphere; Kinetics; Nitrogen dioxide; Oxygen atoms; 13247. SP305-5.

Rate constants; Stratospheric chemistry; Absorption cross sections; Atmospheric chemistry; Chemical kinetics; Chlorine; Chlorine dioxide; Chlorine monoxide; Data evaluation; Gas phase; Optical; *NBSIR 74-516*. SP305-6.

Rate constants; Structures of ions; Collisional stabilization; Hydrocarbons; Ion-molecule reactions; Photoionization; *J.76A No. 3, 253-262 (1972)*. SP305-4.

Rate constants; *t*-butyl ion; Carbonium ions; Ion-molecule reactions; Neopentane; Radiolysis; 11854. SP305-3.

Rate constants; Theory; Hydrocarbons; Ion-molecule reactions; Photoionization; Radiolysis; 11853. SP305-3.

Rate constants; Thermal energy; Vibrational energy; Ammonia; Mass spectrometry; Photoionization; 12999. SP305-4.

Rate constants; Unimolecular theory; Acetylene; Dissociation; Elementary reactions; Ethane; Ethylene; Hydrocarbons; Kinetics; Mechanism; Methane; Olefins; Paraffins; Propylene; Pyrolysis; *SP357*, pp. 17-25. SP305-4.

Rate constants; Vapor phase;  $C_4H_8$  isomers; Collisional stabilization; Isomerization; Photoionization; *J.76A No. 2, 115-124 (1972)*. SP305-4.

Rate data; Atomic oxygen; Ethane; Evaluation; Methane; 13292. SP305-5.

Rate dependence; Superlinearity; Thermoluminescence; Formation; Bremsstrahlung;  $Co^{60}$  photons; Energy dependence; F centers; Impurities; LiF (TLD); 10921. SP305-2.

Rate dependence; Thermoluminescence;  $^{60}Co$  gamma radiation; F-center formation; LiF (TLD grade); 10918. SP305-2.

Rate equations; Scattering theory; Correlation function; Derivation; Kinetic equations; Langevin equation; 1330. SP305-5.

Rate evaluations; Art of evaluation; Chemical reactions; Quality control measures; Rate constants; 13484. SP305-5.

Rate of charge measurement; 477 pressure ionization chamber; Half-life measurement; Isomeric decay; Isotope  $^{113}In$ ; Radioactivity; 15078. SP305-7.

Rate of combustion; Calorimeter; Fabrics; Flammability; Heat of combustion; 15103. SP305-7.

Rate of natural increase; Stable population; Eigenvalue; reproduction rate; Oscillations; Perron-Frobenius theorem; *J.78B No. 2, 73-78 (1974)*. SP305-6.

Rate of vaporization; Tungsten; Vapor pressure; Heat of sublimation; Langmuir vaporization; *J.77A No. 2, 237-247 (1973)*. SP305-5.

Rate of vaporization; Vapor pressure; Heat of sublimation; Langmuir vaporization; Platinum; *J.74A No. 5, 647-657 (1970)*. SP305-2.

Rate theory; Scattering theory; Trajectory calculations; Transport processes; Chemical kinetics; Cross sections; 10630. SP305-1.

Rate-controlling step; Stress corrosion; Aluminum alloys; Crack initiation; Crack propagation; 10797. SP305-1.

Rate-independent theory; Tapered rods; Aluminum; Experiments; Longitudinal impact; Numerical solution; One-dimensional; Plastic-wave propagation; *J.72C No. 4, 231-241 (1968)*. SP305-1.

Rates; Aqueous solution; Chemical kinetics; Data compilation; Hydrated electron; Radiation chemistry; *NSRDS-NBS48*. SP305-5.

Rates; Aqueous solution; Chemical kinetics; Data compilation; Hydrated electron; Radiation chemistry; *NSRDS-NBS48 Supplement*. SP305-7.

Rates; Aqueous solution; Chemical kinetics; Data compilation; Hydrogen atom; Radiation chemistry; *NSRDS-NBS48*. SP305-7.

Rates; Reaction; Ion; Mobilities; Neon; 10622. SP305-1.

Rates; Review; Chemical kinetics; Data compilation; Dissolved G; Gas; Nitrous oxide; Radiation chemistry; *NSRDS-NBS48*. SP305-5.

Rates; Review; Chemical kinetics; Data compilation; Methane; Radiation chemistry; *NSRDS-NBS54*. SP305-7.

Rates; Alkanes; Esters; Heat capacity; Heats of vaporization; Oligomers; 15357. SP305-7.

Rates; Review; Spectra; Chemical kinetics; Data compilation; Ethanol; G; Radiation chemistry; *NSRDS-NBS48*. SP305-4.

Rates; Silver oxides;  $Ag_2O$ ;  $Ag_2O_2$ ; Aqueous potassium hydroxide; Dissociation; 10772. SP305-1.

Rates; Solvated electron; Alcohols; Chemical kinetics; Data compilation; Radiation chemistry; *NSRDS-NBS42*. SP305-5.

Rates; Spectrometry; Atoms; Mass; Mechanisms; Nitrogen; Olefins; 9329. SP305.

Rates of adsorption; Surfaces; Adsorption; Adsorption on mercury; Desorption; Polymers; Polystyrene; Radiotracer measurements; 15853. SP305-8.

Rates of reaction in liquids and gases; Reaction equilibria; liquids and gases; Degradation of polymers in melts; Diffusion-controlled reactions between macroradicals; Diffusion of molecules and radicals in molten polymers; *SP357*, pp. 43. SP305-4.

Rating; Test method; Tread wear; Automobile tires; Environment; grading; Pavement; 12874. SP305-4.



ing; Test method; Tread wear; Automobile tires; Grading; 200. SP305-3.

ing and testing; Refrigerated truck bodies; Simulated solar heating; Weight gain; Air leakage; Cooling loads; 10260. SP305-1.

ing scheme; Sound; Standards organization; Acoustics; Pipe; SP386, 1976 Edition. SP305-8.

ing; Ratio standard; Resistive divider; Voltage ratio; Divider; Measurement system; 12150. SP305-3.

ing; Reflection coefficient; Reflectometer; Self-calibration; Exports; Vector voltmeter; Voltage; Admittance; Automated measurement measurements; Correlator; Current; Impedance; Microwave circuit parameters; Microwave measurements; Phase angle; Power; TN673. SP305-7.

ing; Resistor; Four-terminal; Resistance decade; Transresistance; URS (universal ratio set); VERI (versatile ratio instrument); DRRS (direct reading ratio set); Junction; Precision measurements; J70C3-228, 169-172 (1966). SP305.

ing; Safety; Standards enclosure; Transformer; Voltage divider; Voltmeter; Alternating-current; Calibration; Direct-current; High-voltage; TN349. SP305.

ing; Self-calibration; Six-port; Vector voltmeter; Voltage; Attenuation; Microwave; Phase angle; 15665. SP305-7.

ing; Six-port junction; Vector voltmeter; Voltage; Attenuation; Automation; Detector; Insertion loss; Microwaves; Phase angle; 15649. SP305-7.

ing; Standards; Voltage; Volt box; Calibration; Console; Electrical; Measurement; J70C3-229, 173-185 (1966). SP305.

ing; Synchronization; Time; Broadcast; Communication; Frequency; 16496. SP305-8.

ing; Systematic; Sum; Approximation; Error; Formula; Imposition; Law of error; Products; Propagation of error; Random; J70C4-237, 263-273 (1966). SP305.

ing; Voltage divider; Voltage ratio; Divider; Inductive voltage divider; 11894. SP305-3.

ing;  $^{235}\text{U}$ ; Fission; Measurement; SP425, pp. 546-548. SP305-10.

ing;  $^{235}\text{U}$ ;  $^{238}\text{U}$ ; 600 keV-22 MeV; Cross-sections; Fission; Measured; Neutrons; SP425, pp. 568-571. SP305-7.

ing; calibration; Transformer; Two-stage voltage transformer; voltage divider; Voltage ratio; Calibration; In-phase deviation; Inductive voltage divider; Measurements; Quadrature deviation; J72C No. 1, 49-59 (1968). SP305-1.

ing; cross sections; Differential cross section; Electrodisintegration; Isospin; Light nuclei; Photoneuclear; 12694. SP305-10.

ing; error; Single-stage transformer; Two-stage transformer; voltage ratio; Current ratio; Leakage impedance; Magnetizing impedance; 14493. SP305-6.

ing; method; Self-avoiding walks; Span; Polymer chains; 4015. SP305-6.

ing; model; Water vapor; Atmospheric water vapor; Calculated slant path; 9614. SP305-1.

ing; scales; Scales; Scaling; Additive scales; Color geodesics; Color scales; Geodesics; Interval scales; 9820. SP305-1.

ing; sets; Universal ratio sets; Direct-reading ratio sets; 10002. SP305-1.

ing; standard; Resistive divider; Voltage ratio; Divider; Measurement system; Ratio; 12150. SP305-3.

ing; transformer; Attenuator; Bridge; High frequency; Inductive voltage divider; J71C2-249, 101-109 (1967). SP305.

ing; transformer; Ratio transformer bridge; Bridge; Impedance; Impedance bridge; Measurement; 12172. SP305-3.

ing; transformer; Resistive divider; Superconductivity; Current comparator; Low temperature electrical measurement; Quantum interference device; 14937. SP305-7.

ing; transformer; Voltage comparator; Voltage divider; Attenuator; Binary divider; Inductive voltage divider; 11328. SP305-2.

Ratio transformer bridge; Bridge; Impedance; Impedance bridge; Measurement; Ratio transformer; 12172. SP305-3.

Ratio transformer test set; Small attenuation measurement; Small insertion loss measurement; Small reflection coefficient measurements; Stainless steel waveguide; Comparison of results; Dc potentiometer test set; Dual channel system; Modulated subcarrier; 11917. SP305-3.

Rational canonical form; Similarity; Matrix equation; Partitioned matrix; J79B Nos. 3 and 4, 117-125 (1975). SP305-7.

Rational numbers; Convolution product; Differential equations; Diophantine approximation; Irrational numbers;  $n$ -complex variables; 11702. SP305-2.

Rationalization; Systems of equations; Units; Coherent; Dimension; Quantity; 11766. SP305-2.

Rats; Blood; Carbon dioxide; Carbon monoxide; Cyanide; Fire; Hydrogen chloride; Hydrogen cyanide; Oxygen; NBSIR 75-966. SP305-8.

Ratskin; Surface modification; Tissue surfaces; Bone; Chemical grafting; Collagen; 15185. SP305-7.

Ray tracing; Spectrograph; Aberrations; Coma; Czerny-Turner; Geometrical optics; Plane grating; 11431. SP305-2.

Rayleigh; Coherent scattering; Delbruck; Empirical formula; Gamma rays; Nuclear Thomson; TN442. SP305-1.

Rayleigh; Stefan; Temperature; Wien; Boltzmann; Draper; Jeans; Kirchhoff; Optical; Planck; Pyrometry; Radiance; 9788. SP305-1.

Rayleigh component; Spectral weight function; Brillouin component; Dynamic scaling theory; Heisenberg paramagnet; Pair correlations; 10833. SP305-1.

Rayleigh distance; Standard gain horns; Antennas; Calibration; Comparison; Effective aperture; Electromagnetic horns; Gain; Measurement; Microwave; Mismatch errors; TN351. SP305.

Rayleigh scattering; Aerosols; Dusts; Light-scattering; Mie theory; Particles; NBSIR 76-1031. SP305-8.

Rayleigh scattering; Binary mixtures; Brillouin scattering; Diffusion coefficient; Light scattering; Optical mixing spectroscopy; 11068. SP305-2.

Rayleigh scattering; Brillouin scattering; Critical opalescence; Fluctuations; Gases; Light scattering; Liquids; 11060. SP305-2.

Rayleigh scattering; Collisions; Laser-excited fluorescence; 15910. SP305-8.

Rayleigh scattering; Spectral distribution of scattered light; Structural relaxation; Thermal relaxation; Volume viscosity; Brillouin scattering; Density fluctuations in liquids; J72A No. 1, 95-100 (1968). SP305-1.

Rayleigh scattering; Spectral line formation; Anisotropic scattering; Limb darkening; Noncoherent scattering; 11692. SP305-2.

Rayleigh scattering; Spherical geometry; Stellar atmospheres; Polarized radiation; Radiative transfer; 12640. SP305-4.

Rayleigh scattering; Tabulations; X rays; Atomic form factor; Compton scattering; Cross sections; Gamma rays; Incoherent scattering function; Photons; J. Phys. Chem. Ref. Data 4, No. 3, 471-538 (1975). SP305-7.

Rayleigh scattering; Thermal relaxation; Volume viscosity; Activity coefficients; Binary mixture; Brillouin scattering; Fluctuations; Light scattering from solutions; 11686. SP305-2.

Rayleigh scattering; X rays; Attenuation coefficient; Compilation; Compton scattering; Cross section; Crystallography; Photoelectric absorption; Photons; 14847. SP305-7.

Rayleigh waves; Surface waves; Glass; Glass strengthening; Ion exchange; 16282. SP305-8.

Rayleigh wings; Argon ion laser; Brillouin scattering; Hyper-sonic velocity; Organic liquids; 10067. SP305-1.

Rayleigh-Jeans equation; Spectral radiance; Wien equation; Brightness temperature; Color temperature; Effective

- wavelength; Infrared and far infrared optical pyrometry; Planck equation; 9310. SP305.
- Rayleigh-Ritz variational method; Basis functions; He<sup>-</sup>; Li<sup>+</sup>; 10247. SP305-1.
- Rayleigh-Ritz variational method; Solid center conductor; Discontinuity capacitance; Open circuited coaxial line; 11096. SP305-2.
- Rayon; Smoke; Smoldering; Upholstery fabric; Cotton; Cushioning; Fire retardant; Furniture; Glowing; Inhibitor; Oxidative pyrolysis; Oxygen index; 16224. SP305-8.
- Rayon; Sulfur; Cellulosic fibers; Combustion; Cotton fibers; Flame retardant treatments; Phosphorous acids; Pyrolysis; Ramie; NBS-GCR-73-4. SP305-8.
- Rayon; Thermogravimetric analysis; Cellulosics; Cotton; DAP; Fabric flammability; Flame retardants; Flammability; SP411, pp. 50-58. SP305-6.
- Rayon; Treatments; Cotton; Fabrics; Flame retardants; Flammability; Phosphorus; Polyester; NBS-GCR-73-16. SP305-8.
- Rayon fibers; Broadline NMR; D<sub>2</sub>O; Dipole-dipole interaction; H<sub>2</sub>O; Oriented water; Quadrupole-field gradient interaction; 10534. SP305-1.
- Rb; Stuckelberg Equation; Cs; Excitation-transfer collisions; He; 10952. SP305-2.
- Rb frequency standards; Satellite T/F dissemination; Short-term stability; SI Units; TAI; Television T/F dissemination; Thallium beam standards; Time; Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; Time scales; Monogr. 140. SP305-6.
- RbCl; SrCl<sub>2</sub>; Double-doped KCl laser windows; Grain boundary stability; Hot forging; KCl; Mechanical strength; Microstructure; Optical absorption; SP462, pp. 82-86 (Dec. 1976). SP305-8.
- RbMnF<sub>3</sub>; Acoustic phonons; Antiferromagnet; Attenuation; EuO; Ferromagnet; Magnetic insulators; MnF<sub>2</sub>; Phonon frequency shift; 11489. SP305-2.
- RbMnF<sub>3</sub>; Born-Mayer repulsion; Born model; Elastic constants; Electrostatic interactions; Perovskite; 14001. SP305-6.
- RbMnF<sub>3</sub>; Sum rules; Heisenberg magnets; Longitudinal diffusivity; Longitudinal spectral weight function; Moments; Neutron scattering; 10834. SP305-1.
- RbMnF<sub>3</sub>; Ultrasonic attenuation; Antiferromagnet; Critical fluctuations; Ferromagnet; Gd; Heisenberg magnet; MnF<sub>2</sub>; 11253. SP305-2.
- RbN<sub>3</sub> structure; Thermal motion; TiN<sub>3</sub> structure; Ionic crystal; K<sub>2</sub> structure; Low temperature study; Monovalent metal azides; NaN<sub>3</sub> structure; Neutron diffraction; 15973. SP305-8.
- RbOD; RbOH; Vibrational assignment; Alkali hydroxides; High temperature; Infrared; Matrix; NaOD; NaOH; 11845. SP305-3.
- RbOH; Rotational constants; Quadrupole; Spectra; Bond distances; High temperature; Microwave; 11217. SP305-2.
- RbOH; Vibrational assignment; Alkali hydroxides; High temperature; Infrared; Matrix; NaOD; NaOH; RbOD; 11845. SP305-3.
- Rb<sup>+</sup>; Resonant charge transfer; Atom; Collision; Cs<sub>2</sub><sup>+</sup>; Ion; Li<sub>2</sub><sup>+</sup>; Low energy; Na<sub>2</sub><sup>+</sup>; Pseudopotential; 15075. SP305-7.
- R-C network; Shielded transformer; Toroidal core; Voltage divider; Voltage ratio; Calibration; Comparator; High permeability core; Inductive voltage divider; Phase angle; 10614. SP305-1.
- R&D; Small business; Consulting services; Contract R&D; Government contracts; Innovation; Invention; Proposal writing; 14700. SP305-6.
- R&D; Small business; Small Business Administration; Technological change; Experimental Technology Incentives Program; Federal policies; Innovation loans; NBS-GCR-ETIP 76-11. SP305-8.
- R&D; Technological change; Decisionmaking; Experimentation; Technology Incentives Program; Federal funding of civil R&D; Federal policies; Policies; Private sector; NBS-GCR-ETIP 76-03. SP305-8.
- R&D; Technological change; Decisionmaking; Experimentation; Technology Incentives Program; Federal funding of civil R&D; Federal policies; Policies; Private sector; NBS-GCR-ETIP 76-04. SP305-8.
- R&D; Technological change; Technology; Demonstration projects; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Guidelines; NBS-GCR-ETIP 76-05. SP305-8.
- R&D; Technological change; Technology; Demonstration projects; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Guidelines; NBS-GCR-ETIP 76-06. SP305-8.
- R&D contracting; Radiation grafting; Research consortia; ton polyester blends; ETIP; Flame retardants; Flammability; NBS-GCR-ETIP 75-01. SP305-8.
- R&D management; Systems analysis; Systems approach; Biomedical research; "health relevance"; Program plan and budgeting; TN761. SP305-5.
- R&D systems; Robots; Automation; Computers; Energy conservation; Fish story; Innovation; Lead paint; Low-cost housing; Privacy; DIM/NBS 58, No. 11, 241-263 (1974). SP305-6.
- RDX; Crystal; Crystal structure; Cyclotrimethyltrinitramine; Explosives; Neutron diffraction; Organic compound; 13154. SP305-5.
- R.e. many-one degrees; R.e. one-one degrees; Semi-Thue systems; Splinters; Combinatorial systems with axioms of unsolvability; General decision problems; Major algorithms; Many-one reducibility; Recursive functions; 14998. SP305-7.
- R.e. one-one degrees; Semi-Thue systems; Splinters; Combinatorial systems with axioms of unsolvability; General decision problems; Markov algorithms; Many-one reducibility; Recursive functions; R.e. many-one degrees; 14998. SP305-7.
- Reactance; Resistance; Resistor; Standards; Adaptability; Capacitance; Capacitors; Detectors; Generators; Impedance; Impedance standards; Inductance; Inductors; Measurement methods; Monogr. 141. SP305-6.
- Reaction; Ion; Mobilities; Neon; Rates; 10622. SP305-1.
- Reaction; Scattering; Structure; Transport; Diffraction; elastic; Interaction; Materials; Neutron; Properties; 10622. SP305-1.
- Reaction; Scattering; SU(3); Asymptotic; Baryons; Mesons; 10296. SP305-1.
- Reaction; Tertiary; Fluorine; Iron; Photon; SP425, pp. 328-330. SP305-7.
- Reaction; 1,1'-bipyrene; 1,6- and 1,8-pyrenediones; Aromatic hydrocarbons; Particulates; Photochemical; Photooxidation; Polycyclic; Pyrene; 9703. SP305-1.
- Reaction barrier; Hartree-Fock; HNO; Interaction energy; Ionization; Radiative recombination; J.73A No. 6, 191-193 (1976). SP305-1.
- Reaction calorimetry; Bomb calorimetry; Calorimetric data; principles; Calorimetric methods; Calorimetric theory; Calorimetric studies; Differential thermal analysis; Heat measurements; Heat transfer; High temperature calorimetry; SP411, Volume 6. SP305-2.
- Reaction calorimetry; Reaction with hydrogen; Bond energy (Cl-F); Chlorine reaction with hydrogen; Chlorine trifluoride, heat of formation; Flame calorimetry; Fluorine calorimetry; Fluorine compounds; J.74A No. 6, 765-770 (1970). SP305-2.
- Reaction calorimetry; Water; Bond energy (O-F); Bomb calorimetry; Flow calorimetry; Fluorine; Heat of formation; Heat of reaction; Hydrogen fluoride (aqueous); Oxygen hydrogen difluoride; J.72A No. 2, 113-131 (1968). SP305-1.

ion coupling; Thermodynamics; Warfarin; enosinotriphosphate-thermodynamics; Chemical bond energy; Coiled helix thermophiles; Drug receptor complexing; Enzyme detection + analysis; Equilibrium; Free energy; Free entropy concept; 13730. SP305-5.

Reaction cross section; Strong interactions; Sum rules; Superonance; U-spin equalities; Octet symmetry breaking; Q ts. 9938. SP305-1.

Reaction cross sections; Cross sections; Nonequilibrium kinetics; Rate coefficients; 10788. SP305-1.

Reaction enthalpy; Sublimation enthalpy; Beryllium difluoride; Yttrium oxide; High temperatures; Mass spectrometry; 2A No. 1, 75-80 (1968). SP305-1.

Reaction equilibria in liquids and gases; Degradation of polymers in melts; Diffusion-controlled reactions between macroradicals; Diffusivities of molecules and radicals in polymers; Geminate recombination of radicals; Pyrolysis hydrocarbons; SP357, pp. 33-43. SP305-4.

Reaction kinetics; Absolute rate constant; Activation energy; Preexponential factor; Propylene; 12212. SP305-3.

Reaction kinetics; Resonance fluorescence; Flash photolysis; Helium; 13133. SP305-5.

Reaction kinetics; Subject index; Author index; Bibliography; Heavy-atom isotope effects; Isotope effects; Kinetic isotope effects; SP349. SP305-4.

Reaction kinetics; Thermal properties; Combustion; Conduction; Diffusion flames; Flame spread; Heat transfer; Integral equations; Mass transfer; Radiation; 11285. SP305-2.

Reaction kinetics; Thermodynamic; Absorption and emission spectroscopy; Far (vacuum) ultraviolet; Ion-molecule reactions; Matrix isolation; Photochemistry; Photoionization; 177. SP305-5.

Reaction kinetics; Tungsten; Chlorine; High temperature; Mass spectrometry; Oxygen; 11061. SP305-2.

Reaction kinetics; Vapor phase; Cyclobutane; Ion-molecule reactions; Mass spectrometry; Photoionization; 11603. SP305-2.

Reaction kinetics; 1-butene; Abstraction reactions; Addition reactions; Atomic oxygen; 13977. SP305-6.

Reaction mechanism; Anodic films; Dual barrier, electrocatalytic; Oxygen evolution; Platinum anodes; SP455, pp. 259-266 (1976). SP305-8.

Reaction mechanism; Sodium periodate; Aprotic solvent; Aperiodic acid; Polycyclic aromatic hydrocarbons; 10285. SP305-1.

Reaction mechanism; Sodium periodate; Aprotic solvents; Aromatic hydrocarbons; Malonic acid; Periodic acid; Pyrene; Quinones; 172A No. 4, 341-350 (1968). SP305-1.

Reaction mechanism; Solid state; Tantalum carbide; Tungsten carbide; Vanadium carbide; Carbide; Crystal structure; Zirconium carbide; Niobium carbide; SP364, pp. 561-566. SP305-4.

Reaction mechanisms; Reaction rates; Critical data; Ethylene; Hydrogenation; Metallic catalysts; NSRDS-NBS13. SP305-1.

Reaction mechanisms; Ring-disk electrodes; Electrocatalysis; Electronic structure; Hydrogen peroxide; Iron phthalocyanines; Mössbauer; Optical spectra; Oxygen; SP455, pp. 1-251 (Nov. 1976). SP305-8.

Reaction mechanisms; Steroids; Zak procedure; Carbonium ions; Cholesterol; Enylic ions; Isobestic points; Kinetics; 699. SP305-6.

Reaction mechanisms; Thermodynamics; Tungsten bronze; Crystal growth; Electrolysis; Nonstoichiometry; SP364, pp. 62. SP305-4.

Reaction mechanisms; Vinyl halides; Ion-molecule reactions; Mass spectrometry; Photoionization; Rate constants; 14844. SP305-7.

Reaction mechanisms; Zak; Carbonium ion formation; Polystyrenes; Cholesterol; Enylic cations; Liebermann-archard; Oxidative reactions; 14489. SP305-6.

Reaction of Ba(g) and excited ozone; Reaction of Fe(g) and oxygen; Review of literature on rate of effusion and mass-spectrometric data; Scandium group and rare-earth gaseous monoxides; Specific heat; Total emittance; Vanadium; Zirconium; NBSIR 74-600. SP305-7.

Reaction of Fe(g) and oxygen; Review of literature on rate of effusion and mass-spectrometric data; Scandium group and rare-earth gaseous monoxides; Specific heat; Total emittance; Vanadium; Zirconium; NBSIR 74-600. SP305-7.

Reaction of OH with CO; Stereoisomers; Vacuum-ultraviolet photolysis; CHO<sub>2</sub> free radical; Force constants; Infrared spectrum; Matrix isolation; 12112. SP305-3.

Reaction of OH with CO; Ultraviolet spectrum; Vacuum-ultraviolet photolysis of HCN, of halogen cyanides, of CH<sub>4</sub>, of CH<sub>3</sub>Cl, of CH<sub>3</sub>OH, of C<sub>2</sub>H<sub>2</sub>, of HClO<sub>2</sub>; Free radicals; HAr<sub>n</sub><sup>+</sup>; Infrared spectrum; 14241. SP305-6.

Reaction patterns; Victims; Apparel; Apparel fires; Burn injury; Defensive capability; FFACTS; Fire; Flammable fabrics; Garment fires; Garment parameters; Injury severity; 15438. SP305-7.

Reaction rate; Resonance fluorescence; Hydrogen atoms; Propylene; 12820. SP305-4.

Reaction rate; Surface; Adsorption; Hydroxyapatite; Ion exchange; Nucleation; 15019. SP305-7.

Reaction rate constants; Fluorocarbons; Hydroxyl radical; 16202. SP305-8.

Reaction rates; Arrhenius parameters; Chemical kinetics; Critical review data; Gas phase; Mechanisms; Molecular reactions; Rate constants; NSRDS-NBS21. SP305-2.

Reaction rates; Critical data; Ethylene; Hydrogenation; Metallic catalysts; Reaction mechanisms; NSRDS-NBS13. SP305-1.

Reaction rates; Spectra; Cross sections; Flux; Neutrons; SP425, pp. 189-192. SP305-7.

Reaction rates; Structure of ions; Ion-molecule reactions; Hydrocarbons; Radiolysis; 10729. SP305-1.

Reaction rates; Temperature; TGA; Thermal analysis; Accessibility; Arrhenius plots; Burned celluloses; Celluloses; Combustion; Crystallinity; Decomposition; DP; DTA; Flame-retardant; KHCO<sub>3</sub>; Kinetics; Moisture; Oxygen indexes; Pyrolysis; 13129. SP305-5.

Reaction rates; Thermal energy; Helium ions; Ion-neutral; Ions; Helium; 9707. SP305-1.

Reaction rates; Thick targets; Astrophysics; Cross sections; Fusion; SP425, pp. 69-72. SP305-7.

Reaction theory; Coupled-channel; Eigenchannel; Giant resonance; Photoneuclear; 12841. SP305-4.

Reaction time; Safety; Warning lights; Consumer products; Human factors; Kitchen; Ranges; NBSIR 75-797. SP305-7.

Reaction with hydrogen; Bond energy (Cl - F); Chlorine reaction with hydrogen; Chlorine trifluoride, heat of formation; Flame calorimetry; Flow calorimetry; Fluorine compounds; Heat of formation; 174A No. 6, 769-779 (1970). SP305-2.

Reaction-hot pressing; Rhombohedral boron; X-ray diffraction; Amorphous boron; Anhydrous boric acid; Boric oxide; Boron carbide structure type; Boron suboxide; Crystal structure; Decompose; Electron microbeam probe; Infrared spectrum; SP364, pp. 605-611. SP305-4.

Reactions; Atoms; Bibliography; Cross-sections; Ions; Molecules; Rate coefficients; SP381. SP305-5.

Reactions; Regge pole; SU(3); Symmetry breaking; Trajectory; Cross sections; 14013. SP305-6.

Reactions; Regge pole; SU(3); Symmetry breaking; Trajectory; Cross sections; 14166. SP305-6.

Reactions; Representations; Screens; Structures; Topological codes; Chemistry; Compounds; Computer; File organization; HAYSTAO; Hayward; Information retrieval; Linear notation; Markush; Mixtures; 10363. SP305-1.

Reactions; Singlet oxygen; Air pollution; Kinetics, organic compounds; Rate constant; 14343. SP305-6.

Reactions; Structure;  $SU(6)_W$ ; Symmetry; Exotic; Mesons; 11974. SP305-3.

Reactions; Structure;  $SU(6)_W$ ; Symmetry; Exotic; Mesons; 14543. SP305-6.

Reactions; Tables; Activation energies; Arrhenius equation; Bimolecular; Chemical kinetics; Data; Gas; Rate constants; *NSRDS-NBS9*. SP305.

Reactions; Tables;  $\gamma$ -rays; Computers; Data; Decay; ENSDF; Evaluation; Files; Formats; Levels; Nuclear structure; Radiations; *SP425*, pp. 309-312. SP305-7.

Reactions; Theory; Experiment; Neutrons; Nuclear; Photons; Photonuclear; Protons; 13187. SP305-5.

Reactions  $C(^4P)$ ,  $C(^1D)$ ; Absolute rate constants; Carbon suboxide; Flash photolysis; Primary processes; 11258. SP305-2.

Reactions of oxygen atoms; Atomic oxygen; Catalysis; Flow system reactions; Kinetic EPR spectroscopy; Microwave discharges; 10162. SP305-1.

Reactive; Valve; Bellows; Fluorine; High pressure; Packless; 11145. SP305-2.

Reactive gas generator; Sulfur dioxide; Acetaldehyde; Acrolein; Formaldehyde; Gas chromatography; Hydrogen chloride; Hydrogen cyanide; Pollution; Pyrolysis; *NBSIR 76-1000*. SP305-8.

Reactive gases; Acetaldehyde; Acrolein; Air pollution; Calibration; Decomposition; Formaldehyde; *J78A No. 2*, 157-162 (1974). SP305-6.

Reactive intermediates; Silicon; Time-of-flight mass spectrometry; Transport species; Boron; Electric discharge; Germanium; Oxyfluorides; 10853. SP305-1.

Reactive molecules; Rotation in matrices; Vibrational spectra; Atomic spectra; Electronic spectra; Free radicals; High-temperature species; Matrix isolation; Molecular ions; 13422. SP305-5.

Reactive species; Rotational spectra; Thioformaldehyde; Structure; Dipole moment; Microwave spectrum; 12325. SP305-3.

Reactivity; Lattices; Nuclear data; Parameter; *SP425*, pp. 7-13. SP305-7.

Reactivity of anorganic whole tooth; Reactivity of dentin; Heats of immersion; Heats of immersion of tooth structure; 12230. SP305-3.

Reactivity of anorganic whole tooth surfaces; Reactivity of dentin surfaces; Anorganic whole tooth; Components of tooth; Dentin; Heat of reaction; 10992. SP305-2.

Reactivity of calcified tissues; Adhesion to tooth surfaces; Adsorption on calcified tissues; Bone; Calcified tissues; Dentin; Enamel; Modification of tooth surfaces; 12437. SP305-4.

Reactivity of dentin; Heats of immersion; Heats of immersion of tooth structure; Reactivity of anorganic whole tooth; 12230. SP305-3.

Reactivity of dentin surfaces; Anorganic whole tooth; Components of tooth; Dentin; Heat of reaction; Reactivity of anorganic whole tooth surfaces; 10992. SP305-2.

Reactivity of tooth surfaces; Adhesion; Adhesive restoratives; Bonding to teeth; Dental cements; Dental sealants; 14943. SP305-7.

Reactivity of tooth surfaces; Tooth surface treatments; Adhesives; Adhesive test methods; Bioadhesives; Dental adhesives; Dental resins; 12923. SP305-4.

Reactivity ratios; Tetrafluoroethylene; Copolymerization; Pentafluorostyrene; Polymerization; Pressure radiation; 15281. SP305-7.

Reactivity swing; Sensitivity study; Breeding ratio; Cross section uncertainties; Equilibrium cycle; Fuel cycle; *SP425*, pp. 385-388. SP305-7.

Reactivity-coefficients; Advanced-fuels; DD;  $D^4Li$ ; Fusion-dynamics; I-layer; *SP425*, pp. 683-687. SP305-7.

Reactor; Dosimetry; Gamma; Intercomparison; Neutron; Personnel; *SP456*, pp. 225-232 (Nov. 1976). SP305-8.

Reactor; Research; Utilities; Biology; Career; Ecological; Electricity; Energy; Environment; Fusion; Medicine; Nuclear Power; Radiation; *TN888*. SP305-7.

Reactor; Resonance; Slowing-down; Stochastic; Transport; Benchmark; Cross section; Eigenvalue; Monte Carlo; *SP425*, pp. 451-454. SP305-7.

Reactor; Resonance; Thermalization; Absorption; Neutrons; 9746. SP305-1.

Reactor; Selectivity; Semimicro; Sensitivity; Accuracy; Activation analysis; Element; Generator; Micro; Precision; 13187. SP305-4.

Reactor; Standard reference material; Activation analysis; Cockcroft-Walton neutron generator; LINAC; Radiochemical separations; 11364. SP305-2.

Reactor;  $^{239}Pu$ ; Alpha-particle; Emission; Fission; Neutrons; 13458. SP305-5.

Reactor components; Electric utilities; Hot cell inspection; service inspection; Nondestructive testing; Nuclear power; 15118. SP305-7.

Reactor fuels; Reactor materials; Absolute fission cross sections; Neutron dosimetry; 15239. SP305-7.

Reactor materials; Absolute fission rates; Neutron dosimetry; Reactor fuels; 15239. SP305-7.

Reactor materials; Ceramics; Lattice defects; Nuclear science and technology; Radiation damage; Materials; 13458. SP305-5.

Reactor production experiments; Heavy actinide burnup; *SP425*, pp. 224-228. SP305-7.

Reactor shields; Shielding; Concrete; Function fitting; Neutrons; Neutron transport; 13910. SP305-6.

Reactor spectrum; Scattering; Slowing down density; Cross sections; Epithermal energy; Group averaging; Neutron; 10162. SP305-1.

Reactor systems and components; Safety standards; Failure prevention; Mechanical failure; Mechanical malfunction; Quality assurance; *SP423*, pp. 143-151 (Apr. 1976). SP305-8.

Reactors; Cross sections; Neutrons; Nuclear data; Nuclear technology; *SP299, Volumes 1 and 2*. SP305-1.

Reactors; Resonances; Unresolved; Cross sections; ENDF; Neutrons; *SP425*, pp. 371-379. SP305-7.

Reactors; Resonant scatterer; Monoenergetic neutrons; Neutron beams; Neutron filters; Neutrons; *SP456*, pp. 83-85 (Nov. 1976). SP305-8.

Reactors; Shielding; Cross sections; Meeting; Neutrons; Nuclear technology; 10749. SP305-1.

Reactors;  $^3H$ ;  $^9Be$ ; Fission products; Gamma spectra; Photoneutron spectra; *SP425*, pp. 193-198. SP305-7.

Readability; Standards; Symbols; Type faces; Typography; Readability; Alphanumeric characters; Displays; Handbook; Hand factors; Legibility; Psychology; *M262-2*. SP305.

Reader-printer; Selective copier; Information retrieval devices; Microcopier; Microfilm duplicator; *TN516*. SP305-2.

Reading machines; Character recognition; Context recognition; Data bases; Optical character recognition; Pattern recognition; *NBSIR 75-746*. SP305-7.

Readout; Thermoluminescence; Annealing;  $F$  centers; gamma-ray irradiation; LiF (TLD grade) plaques; 10162. SP305-6.

Reagent; Determination; Electron-transfer; Inosose; Oxidation; Quantitative; Radical; 12151. SP305-3.

Reagent; Review; Active; Manganese dioxide; Organic chemistry; Oxidation; 15880. SP305-8.

Reagent; Spectra; Structure; Superoxide; Alkaline; Copper, e.s.r.; Ligand; Paramagnetic; *J74A No. 5*, 72 (1970). SP305-2.

Reagent blanks; Trace element analysis; Biological standards; Biological standards; Chemical separations; Environmental



- amples; Neutron activation analysis (NAA); Nondestructive; 87. SP305-5.
- nt contamination; Ultrapurification; Analytical blanks; Analytical reagents; Contamination control; High-purity reagents; Membrane filtration; Mercury cathode electrolysis; purification; Purity definition; SP422, pp. 363-375 (Aug. 6). SP305-8.
- nts; Accuracy; Analysts; Apparatus; Blank; Contamination; Environment; Purity; SP422, pp. 509-539 (Aug. 1976). SP305-8.
- nts; Resin structure; Ultra-pure reagents; Urea; Uric acid; Analytical distillation; Clinical standards; Crystallization; Inhibitors; EDTA; Ion exchange resins; Microstandards; Tissue matter; TN459. SP305-1.
- nts; Zone refining; Ion exchange; Purification; TN429. SP305-1.
- Analysis; Continuous; Equation; Function; J77B Nos. 1 & 2, 11-13 (1973). SP305-5.
- fluorescence parameters; Fluorescence lifetime; Fluorescence quantum efficiency; Fluorescence quantum yields; Fluorescence spectrum; Fluorescence standards; Molecular fluorescence parameters; J. Res. 80A No. 3, 389-399 (1976). SP305-8.
- Function; Hadamard product; Positive semidefinite; 15876. SP305-8.
- Functions; Functional equations; Inequalities; Inverse functions; 9762. SP305-1.
- Functions; Inverses; Involutions; J71B1-192, 19-20 (1973). SP305.
- metals; Theory; X-ray inelastic scattering; Differential as section; J79A No. 2, 415-417 (1975). SP305-7.
- parameters; Dynamical matrix; Matrix, dynamical; Phonon dynamical matrix; 15690. SP305-7.
- part; Eigenvalues; Hadamard inequality; Positive definite; 1541. SP305-7.
- samples; Standard Reference Materials; Trace element analysis; Accuracy limits; Activation analysis; Activation spectrometry; Analytical chemistry; Measurement biases; Ppm; 14425. SP305-6.
- variable; Arbitrary functions; Continuity; Maxima; 10354. SP305-1.
- world; Rehabilitation; Synthesis; System; User needs; User needs; Analysis; Cost; Evaluation financing; Housing; Investments; Individual; Inspection; Minority groups; Performance; SP361, Vol. 1, pp. 345-356. SP305-4.
- potential; Second virial coefficient; Spherical potential; Hypergeometric series; London interaction; Pair potential; J73A No. 4, 421-423 (1969). SP305-1.
- ability; 2-ports; Attenuation; Microwave; Mismatch error; 929. SP305-1.
- ns; Building fires; Case studies; Critical events; Decisions; Isodes; Fires; Home for the aged; Hospital fires; Human behavior; Institutions; Mapping; Models; Nursing homes; IS-GCR-76-73. SP305-8.
- time; Analytical chemistry; Computers; Data acquisition; Data processing; Fluorimetry; Laboratory automation; 1857. SP305-7.
- time; Data acquisition; File system; Laboratory automation; Multiprogramming; Operating system; NBSIR 75-713. SP305-7.
- time; RTOS; Automation; Calibration; Fuel control; Jet engine; Minicomputer; Multi-task; Performance testing; Process control; 15550. SP305-7.
- time analyzer; Reverberation room; Spectrum shaping; Digital processing of decay rates; Digital sampling; Graphics display terminal; Interactive program; Least-squares analysis; 1082. SP305-7.
- time data processing; Time sharing; X-ray diffractometer; Automatic control; Computer control; Diffractometer; FORTRAN; Neutron diffractometer; J74C Nos. 3 and 4, 89-95 (1970). SP305-2.
- Real-time display; Interferometer, fringe counting; 16380. SP305-8.
- Real-time hospital information system; Remote data input; Administration; Hospital data communications; Laboratory; Nursing station; Pharmacy; 9500. SP305.
- Real-time imaging; Thermoluminescence; Track-etch; Films; Images; Neutron radiography; Nondestructive tests; 15796. SP305-8.
- Real-time techniques; Three-dimensional radiography; X-radiography; Dimensional measurement; Gamma radiography, image enhancement; Neutron radiography; Nondestructive testing; Proton radiography; 15214. SP305-7.
- Rearrangement; Binding energy; Mass formulae; Nuclei; Particle-hole energy; Quartet structure; 12145. SP305-3.
- Rearrangement; 1,3-dioxolane rings; Fructose; Gas-liquid chromatography; Rare sugars; 11866. SP305-3.
- Rearrangement of sugars in alkali; Sugars, enolization and rearrangement of; Tritium exchange, measurement of enolization by; 2-deoxy sugars, enolization of; Acyclic intermediates in mutarotation of sugars; Aldoses, enolization of; Alkaline rearrangement of sugars; 11338. SP305-2.
- Rearrangement process; Theoretical proton; Born approximation; Charge transfer; Coulomb wave; Ground state; High energy; Hydrogen; 12598. SP305-4.
- Reasonable perturbations; Spectral density; 1/f noise; Flicker noise; Low frequency noise; Mechanical model; Modulation noise; Noise; Noise model; Noise simulation; Precision measurements; Random noise; 10555. SP305-1.
- Recall; Reliability; Traceability; Calibration records; Calibration system specification; Intervals; Procedures; SP335, pp. 47-50. SP305-3.
- Receiver; Tape recorder; Telephone; Transmitter; Wiretapping; Body worn antenna; Bugging; Eavesdropping; Electronic surveillance; Microphones; 16237. SP305-8.
- Receiver bandwidth calibration; Rf burst generator; Spectral intensity; Broadband signal generator; Impulse bandwidth; NBSIR 74-371. SP305-8.
- Receiver bandwidth calibration; Spectral intensity; Broadband interference; Field strength meter; Impulse standards; NBSIR 73-335. SP305-6.
- Receiver calibration; RF power, measurement; 11641. SP305-2.
- Receiver definitions; Receiver measurement techniques; FM receivers; Law enforcement equipment; Minimum performance requirements; NILECJ Standard; 16293. SP305-8.
- Receiver definitions; Receiver measurement techniques; FM receivers; Law enforcement equipment; Minimum performance requirements; NILECJ Standard; 16297. SP305-8.
- Receiver definitions; Receiver measurement techniques; FM receivers; Law enforcement equipment; Minimum performance requirements; NILECJ Standard; 16303. SP305-8.
- Receiver measurement techniques; FM receivers; Law enforcement equipment; Minimum performance requirements; NILECJ Standard; Receiver definitions; 16293. SP305-8.
- Receiver measurement techniques; FM receivers; Law enforcement equipment; Minimum performance requirements; NILECJ Standard; Receiver definitions; 16297. SP305-8.
- Receiver measurement techniques; FM receivers; Law enforcement equipment; Minimum performance requirements; NILECJ Standard; Receiver definitions; 16303. SP305-8.
- Receivers; Schottky-barrier diodes; Semiconductor devices; Solid-state devices; X-band measurements; Diodes; Gamma rays; Hardness assurance; Microwave mixer diodes; Mixers; Neutrons; Radiation hardness; SP400-7. SP305-8.
- Receiving end; Skin effect; Step response; Time domain; Voltage divider; Asymptotic expansion; Characteristic impedance; Coaxial line; Complimentary error function; Conductor;

- Cylindrical; Dielectric; Error; Generator; Lossy; Microminature; Model; Planar; Propagation function; 14347. SP305-6.
- Recent advances; Tables; Theory; Chemical applications; Instrumentation; Mössbauer spectrometry; Nuclear parameters; 16332. SP305-8.
- Recent results; Review; Speed of light; Methods and limitations; 9346. SP305-1.
- Recidivism; Statistical relationships; Bail; Criminal court data; Criminal justice system; Dangerousness; Data collection problems and procedures; District of Columbia; Judicial system; Prediction research; Pre-trial release; Preventive detention; TN535. SP305-2.
- Reciprocal Hall coefficient; Transition regime;  $^{60}\text{Co}$  gamma; Activation energy; Compensation; Epitaxial gallium arsenide; High energy neutron; Impurity conduction; 15575. SP305-7.
- Reciprocal relations; Diffusion; Phenomenological coefficients; Polycrystalline systems; J74A No. 1, 55-63 (1970). SP305-2.
- Reciprocity; Scattering matrices; Adjoint operators; Electroacoustic transducers; NBSIR 73-329. SP305-6.
- Reciprocity; Secondary standard; Vibration standard; Air bearing; Ceramic moving element; Electrodynamometer shaker; Piezoelectric accelerometers; 9297. SP305.
- Reciprocity; Sensitivity; Temperature; Calibration; Ceramic; Condenser; Electret; Humidity; Microphones; NBSIR 76-1090. SP305-8.
- Reciprocity calibration; Vibration exciters; Vibration pickups; Vibration standards; Absolute calibration; Accelerometers; Calibration; NBSIR 74-481. SP305-6.
- Reciprocity relations; Scattering matrix; Transducers; Linear differential operators; J79B Nos. 1 and 2, 17-39 (1975). SP305-7.
- Reciprocity relationship; Specific absorbed fraction; Dosimetry; radionuclide; Internal dose calculation; Nuclear medicine; Radionuclide dosimetry; 14618. SP305-6.
- Recirculating flow; Scale-model; Smoke movement; Stratified flow; Theory; Corridors; Fire induced flow; 15630. SP305-7.
- Recirculation; High pressure; Low flow rate; Pump; 10985. SP305-2.
- Reclamation; Conservation; Materials recovery; Natural resources; 15603. SP305-7.
- Recognition; Research; Speaker identification; Speech recognition; Standardized fonts; U.S.S.R.; Western Europe; Optical character; Pattern recognition; 11142. SP305-2.
- Recognition techniques; Review; Statistics; Transforms; Chemical analysis; Curve fitting; Distribution functions; Experiment planning and optimization; Measurement process; On-line computers; 14294. SP305-6.
- Recoil; Saturated absorption; Laser spectroscopy; Methane spectra; 14951. SP305-7.
- Recoil; Surface effect; Accuracy; Activation analysis; Charged particle irradiation; Diffusion; Etching; Metals; Neutron irradiation; SP422, pp. 1165-1171 (Aug. 1976). SP305-8.
- Recoil effect; Relativity;  $\text{CH}_4$  hyperfine structure; High resolution spectroscopy; Laser spectroscopy; Line shape; Optical frequency standards; 16603. SP305-8.
- Recoiling fission fragments; Trace element glasses; Uranium; Alpha particles; Boron; Fission; Fragments; 12844. SP305-4.
- Recoilless fraction; Antimony; Ferrites; Hyperfine fields; Iron; Isomer shift; Lithium; Mössbauer Effect; 12205. SP305-3.
- Recombination; Cross-section measurements; Electrons;  $\text{H}_2\text{O}^+$ ; Ion trap; 15859. SP305-8.
- Recombination; D region; Ionosphere; Negative ions; Photo-detachment; 9252. SP305.
- Recombination; Electrons; Ion trap; Positive molecular ions; 15593. SP305-7.
- Recombination; Molecules; 14184. SP305-6.
- Recombination; Review; Chemical kinetics; Dissociation; Isotopic exchange; Oxygen atom; Oxygen molecule; Ozone; NSRDS-NBS20. SP305-1.
- Recombination; Review; Termolecular; Third body; Bimolecular; Chlorine; Dissociation; Evaluation; Fluorine; Gas; 14347. SP305-6.
- Recombination; Review; Unimolecular decomposition; A transfer reaction; Chemical activation; Chemical kinetics; Chemical excitation; Gas phase; Potential energy surface; 11943. SP305-3.
- Recombination; Shockley theory of  $\epsilon$ ; Silicon radiation centers; Trapping; Energy, required to create an electron pair; Low temperature; 9299. SP305.
- Recombination case; Collisional excitation; Low-density envelope; SP332, pp. 171-178. SP305-2.
- Recombination centers; Resistivity; Ribbon wire bond; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum; Base transit time; TN754. SP305-5.
- Recombination centers; Resistivity; Resistivity standard; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated currents; Trapping centers; TN773. SP305-5.
- Recombination centers; Resistivity; Resistivity standard; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated currents; Trapping centers; TN788. SP305-5.
- Recombination centers; Resistivity; Resistivity standard; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Spreading resistance; Thermal resistance; TN806. SP305-5.
- Recombination centers; Resistivity; Ribbon-wire bond; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum; Base transit time; TN743. SP305-4.
- Recombination coefficient; Brush-cathode plasma; Collisional radiative recombination; Helium afterglow; 9371. SP305.
- Recombination decomposition; Resonance scattering; Scaling theory; Unimolecular kinetics; Absolute Rate Theory; Association; Configuration interaction; Quantum mechanics; 11512. SP305-2.
- Recombination mechanisms; Collisional-radiative recombination; Electron beam; Electron density; Light density; Linear diffusion; Plasma; Radial distribution; 9956. SP305.
- Recombination of excess carriers; Semiconductors; Surface photovoltage; Bibliography; Diffusion length; Diode recovery; Excess carrier lifetime; Measurement methods; Photoconductive decay; Photoconductivity; Photomagnetolectric effect; TN465. SP305-1.
- Recombination of  $\text{NO}^+$ ; Recombination of  $\text{O}_2^+$ ; Ion storage technique; 14180. SP305-6.
- Recombination of  $\text{O}_2^+$ ; Ion storage technique; Recombination of  $\text{NO}^+$ ; 14180. SP305-6.
- Recombination spectra; Forbidden lines; Nebular spectra; Planetary nebulae; 13817. SP305-6.
- Recombination-electron ion and plasma; Diffusion; Radial distribution; 10178. SP305-1.
- Recombinations; Scattering theory; Chemical reactions; Collision theory; Cross sections; Dissociation; Hot atoms; Isotope effects; Kinetics; Molecular beams; Quantum mechanical rate coefficients; 16591. SP305-8.
- Recommendations; Specifications; Standards; Test methods; Analyses; International Commission on Rules for the Approval of Electrical Equipment; International Electrotechnical Commission; International Organization for Standardization; SP390. SP305-6.

Recommendations to authors; Bomb calorimetry; Corrections to combustion data; Data evaluation; Evaluation process; Bomb calorimetry; Heats of combustion of organic compounds; 12526. SP305-4.

Recommended practices; Specifications; Test methods; Certification programs; Consumer products; Household products; Industry standards; International recommendations; National standards; Product standards; TN762. SP305-5.

Recommended practices; Specifications; Standardization activities; Standards; States—standardization activities; Test methods; Codes; Consensus system; Directory; Federal Government—standardization; Industry standards activities; International standards activities; SP417. SP305-7.

Recommended procedures for reporting data; Standardization; Tests; Chemical kinetics; Guidelines; NBSIR 74-537. SP305-1.

Recommended value; Zero vibrational state of the ground electronic state; Bond dissociation energy; Gaseous state; Inorganic simple compounds; NSRDS-NBS31. SP305-2.

Recommended values; Semiempirical calculations; Ab initio calculations; Atomic negative ions; Binding energy; Electron affinity; Excited states; Experimental methods; Fine structure splitting; J. Phys. Chem. Ref. Data 4, No. 3, 539-576 (1975). SP305-7.

Recommended values; Standard reference data; Thermal conductivity; Critical evaluation; Gases; Graphites; Metallic elements; Metals; NSRDS-NBS16, Part 2. SP305-1.

Instruction; Refractive index; Synthetic focus; Tissues; Ultrasound; Acoustic attenuation; Acoustic velocity; Breast imaging; Computerized tomography; Heart; SP453, pp. 109-119 (Oct. 1976). SP305-8.

Instruction; Scattering; Tissue characterization; Tissue parameters, tissue signature; Tumor; Ultrasonic spectroscopy; Ultrasound; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; Medical diagnosis; Microscopy; Pattern recognition; SP453. SP305-8.

Identification; Risk analysis; Security; Data confidentiality; Data integrity; Encryption; Personal identification; Privacy; 16390. SP305-8.

Record materials; Record papers; Stability; Accelerated aging; Natural aging; Permanence; NBSIR 75-739. SP305-7.

Record papers; Stability; Accelerated aging; Natural aging; Permanence; Record materials; NBSIR 75-739. SP305-7.

Record papers; Stability of paper; Accelerated aging; Aging; Natural aging; Paper, permanent; Paper, stability; Permanent papers; NBSIR 74-632. SP305-7.

Record magnetic tape for information interchange (800 CPI, 1/2 in.); Federal Information Processing Standard; FIPS PUB SP305-1.

Order; Stern-Gear equation; Synthetic sea water; Weight loss; Bridge circuit; Change of pH; Instantaneous corrosion rate; Pearson equation; Pit depth; 11658. SP305-2.

Printing typewriters; Scientific computer technology; Graphic character sets; Information analysis centers; Information interchange codes; TN820. SP305-6.

Recordings in the field; Tape recording; Acoustic measurements; Calibrated tape recordings; Data acquisition; Magnetic recording; Psychoacoustic data; TN718. SP305-4.

Recording; X ray; Automation; Calibration; Computer; 1456, pp. 53-57 (Nov. 1976). SP305-8.

Recording practices; Security; Citizen rights; Computers; Confidentiality; Data systems; Health records; Information policy; Management principles; Medical records; Privacy; Monogr. 157. SP305-8.

Records; Reflectance; Specifications; Stability; Wet breaking load; Accelerated aging; Dry breaking load; Paper; PH; 6055. SP305-6.

Records; Repair of records; Storage of records; Slides; Films; Negatives; Paper; Photographs; Preservation of records; Prints; C155. SP305-4.

Records; Stability; Accelerated aging; Aging; Deterioration; Laboratory aging; Preservation; 11480. SP305-2.

Records; Stability; Degradation; Paper; Preservation of records; 11665. SP305-2.

Records; Stability; Degradation; Paper; Preservation of records; 11525. SP305-2.

Recoupling; Transformation theory; Angular momentum; Diagrams; Graphs; Quantum theory; Monogr. 136. SP305-5.

Recoupling; Electric transitions; Electromagnetic operators; Electron scattering; Magnetic transitions; Multipoles; TN713. SP305-4.

Recoupling coefficients; Regge poles; Special functions; Analytical continuation; Electron scattering; Potential scattering; 12388. SP305-4.

Recoupling graphs; Recoupling transformations; Angular momentum theory; Matrix elements; Phase conventions; Racah algebra; 12642. SP305-4.

Recoupling transformations; Angular momentum theory; Matrix elements; Phase conventions; Racah algebra; Recoupling graphs; 12642. SP305-4.

Recovery; Solubility; Space simulation; Temperature effect; Tests; Viscosity; Electron damage; Electron energy; Electron spin resonance; Evaluation; Gel; Mechanical properties; Optical properties; Plastic films; SP336, pp. 323-344. SP305-3.

Recovery; Strengthening; Elastic properties; High-purity aluminum; Lattice defects; Mechanical properties; 13038. SP305-4.

Recovery; Stress; Relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; Nonlinear behavior; Polyisobutylene; J.70A6-423, 525-532 (1966). SP305.

Recovery; Stress relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; Nonlinear behavior; Polyisobutylene; Polyvinylchloride; 10144. SP305-1.

Recreation; Redistribution of income; Water resources; Cost sharing; Efficiency; Equity; 15363. SP305-7.

Recreational; Work; Home noise; Noise sources; 14270. SP305-6.

Recriticality; Safety; Accidents; Breeders; Fast reactors; LMFBR; SP425, pp. 45-50. SP305-7.

Recrystallization; Crystallization; Degree of crystallinity; Density; Linear polyethylene; Polymer; J.76A No. 2, 143-144 (1972). SP305-4.

Recrystallization; Resistivity ratio; Super-purity metals; Aluminum; Grain size; 11349. SP305-2.

Recrystallization; Rubber; Slow melting; Stark rubber; Crystal size; Crystallized rubber; Heating rate; Melting range; Melting temperature; Oriented; Partial melting; J.71A3-455, 225-229 (1967). SP305.

Recrystallization; Rubber; Slow melting; Stark rubber; Crystallized rubber; Crystal size; Heating rate; Melting range; Melting temperature; Oriented; Partial melting; 11436. SP305-2.

Recrystallization; Solute segregation; Super-purity metals; Aluminum; Electrical resistivity; Grain boundaries; 11635. SP305-2.

Recrystallization; Terbiun-iron; Amorphous alloys; Amorphous magnetism; Coercive magnetic force; Magnetic structure; Neutron diffraction; 15297. SP305-7.

Recrystallization temperature; Veiling; Annealing; Fracture energy ( $\gamma_s$ ); Isostatic forging; Kinking; Microstructures; SP462, pp. 87-94 (Dec. 1976). SP305-8.

Recrystallized iron; Serrated yielding; Tensile test; Compliance; Luder's strain; 14207. SP305-6.

Rectangular coax; Shielded strip line; TEM cell; EMC measurements; Radiation resistance; NBSIR 75-829. SP305-8.

Rectangular counters; Electron scattering spectrometer; Focal plane detectors; Lithium compensated silicon; Low temperature radiation detectors; Photonic nuclear physics apparatus; 9678. SP305-1.

Rectangular holes; American Standard Code for Information Interchange; ASCII; Card punch; Card reader; Data communications; Data interchange; Data processing; Electric accounting machine; EAM cards; *FIPS PUB 13*. **SP305-3.**

Rectangular transmission line; Time-domain reflectometer; Variable impedance; Characteristic impedance; Current distribution; General method; Matrix solution; *10158*. **SP305-1.**

Rectifier; Solenoid; Superconductivity; Switch; Temperature; Thermometer; Bearings; Bolometer; Electron microscope; Helium; Hydrogen; Level gauging; Liquid level; Magnet; Motor; Pump; *9715*. **SP305-1.**

Rectifier; Transfer; AC; DC; Operation; Precision; *J.73C Nos. 3 and 4, 47-55 (1969)*. **SP305-1.**

Rectifiers; Water treatment; Anodes; Cathodic protection; Coatings; Corrosion; Deterioration; Inhibitors; Materials selection; Nonmetals; *BSS66*, pp. 42-51. **SP305-7.**

Rectilinear diameter; Refractive index;  $\text{CClF}_3$ ;  $\text{CO}_2$ ; Coexistence curve; Critical region;  $\text{N}_2\text{O}$ ; *12341*. **SP305-3.**

Rectilinear diameter; Scaling laws; Scaling symmetry; Universality; Van der Waals' equation; Vapor pressure curve; Coexistence curve; Corresponding states; Critical exponents; Critical isotherm; *14405*. **SP305-6.**

Rectilinear diameter; Steam; Thermodynamic anomalies; Vapor pressure; Argon; Carbon dioxide; Classical equation; Coexistence curve; Critical exponents; Critical point; Lattice gas; Power laws; *11985*. **SP305-3.**

Rectilinear diameter law; Refractive index; Refractometric virial coefficients; Critical refractive index; Fabry-Perot interferometer; Lorenz-Lorentz function; Methane; *15137*. **SP305-7.**

Recurrence formulas; Congruences; Generating functions; Identities; Partitions; *J.74B No. 1, 1-29 (1970)*. **SP305-2.**

Recurrence methods; Special functions; Chebyshev series; Difference equations; Error analysis; Miller algorithm; *J.71B2&3-206, 111-129 (1967)*. **SP305.**

Recurrence methods; Special functions; Chebyshev series; Difference equations; Error analysis; Miller algorithm; *10697*. **SP305-1.**

Recurrence relation; Computer programs; Continued fraction; Exponential integral; Key values; *J.78B No. 4, 199-215 (1974)*. **SP305-6.**

Recurrence relations; Asymptotic solutions; Chebyshev polynomials; Difference equations; Evaluation of integrals; Numerical stability; Olver's algorithm; Plasma physics; *13197*. **SP305-5.**

Recurrence relations; Continued fraction; Cosine integral; Exponential integral; FORTRAN program; Hyperbolic sine and cosine integrals; Key values; *J. Res. 80B No. 2, 291-313 (1976)*. **SP305-8.**

Recurrence relations; Series; Approximations; Computer programs; Computing pitfalls; Continued fractions; Error function; *J.74B No. 3, 211-224 (1970)*. **SP305-2.**

Recurrence relations; Special functions; Chebyshev series; Difference equations; Error bounds; Miller algorithm; *J.71B4-238, 161-166 (1967)*. **SP305.**

Recursion; Bessel functions; Difference equations; Error bounds; FORTRAN; Miller's algorithm; *13158*. **SP305-5.**

Recursion; Statistical calculations; Instruction list; Iteration; Memory register; Operational stack; Pop-up; Polish notation; Push-down; Radioactivity and isotopic calculations; *13740*. **SP305-5.**

Recursion theory; Undecidability; Degrees of unsolvability; Propositional calculus; *15616*. **SP305-7.**

Recursive digital filters; Analog noise simulation; Computer noise simulation; Digital filters; Flicker noise; Fractional integration; *TN604*. **SP305-3.**

Recursive functions; R.e. many-one degrees; R.e. one-one degrees; Semi-True systems; Splinters; Combinatorial systems with axiom; Degrees of unsolvability; General decision problems; Markov algorithms; Many-one reducibility; *14*. **SP305-7.**

Recycle concept; Transuranium element production; V. recycling in a  $^{235}\text{U}$ - $^{232}\text{Th}$  reactor; Actinide fuel, fertile material, and wastes; *SP425*, pp. 222-223. **SP305-7.**

Recycled paper; Secondary pulp; Waste paper; Market Paper, waste; Pulp, secondary; *15604*. **SP305-7.**

Red Perspex; Sterility control; Dosimetry; Electron beam Gamma rays; Physical measurements; Quality control; Radiation measurement; Radiation processing; Radiation sterilization; Radiochromic dyes; *16648*. **SP305-8.**

Redacting; Abstracts; Editing; Journals; Publishing; *9*. **SP305.**

Redesign; Scientific information; Technical literature; Abstract journal; Evaluation; Dissemination; Information analysis; *11101*. **SP305-2.**

Redistribution; Boron; Boron subhalides; Exchange; Halogens; *11772*. **SP305-2.**

Redistribution; Strontium; Collisions; Near-resonant scattering; *16261*. **SP305-8.**

Redistribution function; Spectral line; Non-coherent scattering; Radiation transfer; *10993*. **SP305-2.**

Redistribution functions; Resonance radiation; Collisional depolarization; Level degeneracy; *13499*. **SP305-5.**

Redistribution of income; Water resources; Cost sharing; Efficiency; Equity; Recreation; *15363*. **SP305-7.**

Redlich Kwong; Second virial coefficient; Thermodynamic compressibility factors; Equation of state; High density; Temperature; Pairwise potentials; *11887*. **SP305-3.**

Redox blemishes; Aging blemishes; Archival records; Blemishes; Microfilm blemishes; Microscopic spots; *J. No. 1, 79-97 (1969)*. **SP305-1.**

Redox blemishes; Archival records; Microfilm; *13523*. **SP305-5.**

Redox blemishes; Zinc powder; Archival records; Microfilm; Microfilm storage cartons; Permanent records; Peroxides; *J.74A No. 1, 31-36 (1970)*. **SP305-2.**

Redox-potential; Soil corrosivity; Soil resistivity; Biological activity; Chemical tests; Electrochemical tests; pH; Polarization measurements; *14310*. **SP305-6.**

Red-shift; Spectral line; Expanding atmosphere; *10995*. **SP305-2.**

Reduced activity; Argon-37; Atmospheric mixing; Blank reactions; Cosmic ray reactions; Effectively zero background; Environmental radioactivity; Low-level counting statistics; Radioactive rare gases; *16345*. **SP305-8.**

Reduced and principal moments of inertia; Standard heat formation; Structural parameters; Torsional mode; Vibrational fundamentals; Barrier height to internal rotation; Fluoroethanes with a symmetric top; *J. Phys. Chem. Data 4, No. 2, 441-456 (1975)*. **SP305-7.**

Reduced cell; Classification; Identification; Lattice; *111*. **SP305-2.**

Reduced cells; Transformation matrix; Bravais lattice; Identification; *12414*. **SP305-4.**

Reduced Liouville equations; Binary liquid mixture; Closure condition; Diffusion coefficient; Distribution functions; Liquids; *11707*. **SP305-2.**

Reduced mass; Stark broadening; Balmer lines; Hydrogen plasma; Ion motion; Line shapes; *15463*. **SP305-7.**

Reduced multiports; Scattering matrix analysis; Cascaded multiports; Equivalent generator; Generalized reflectometer; Multiports; *11071*. **SP305-2.**

Reduced scale modeling; Room corner tests; Smoke; Building fire growth; Flame spread; Heat release; Interior fire; *16183*. **SP305-8.**

Reduced scale models; Room fires; Fire tests; Flame spread; Heat release rate; Ignition; *NBSIR 76-1052*. **SP305-8.**



d SrTiO<sub>3</sub>; Superconductivity; Transition temperatures;  
 axial compression; 0-1.8 kbars stress; Anisotropic stress  
 effect; Hydrostatic pressure; Nb-doped SrTiO<sub>3</sub>; 11767.  
 SP305-2.  
 d strontium titanate; Single crystal; Stresses; Supercon-  
 ductive transition temperatures; Uniaxial stresses; Anisotropic  
 axial stress effect; Hydrostatic pressure; 10413. SP305-1.  
 d transition probability; <sup>21</sup>P; Electroexcitation; Electron  
 scattering; Form factors; Intermediate coupling; 15104.  
 SP305-7.  
 d widths; Transverse; Boron; Electron scattering; Giant  
 resonance; Longitudinal; 14964. SP305-7.  
 d-size venting; Trap performance; Trap-seal reten-  
 tion/reduction; Venting criteria; Venting, reduced-size; Air  
 demand; Criteria for venting; 14612. SP305-6.  
 d-size vents; Sanitary DWV systems; Secondary ventila-  
 tion; Testing plumbing systems; Vents for plumbing; Hydraul-  
 ic criteria for plumbing; Hydraulic test loads; Plumbing-vent  
 testing; B5549. SP305-6.  
 d-size vents; Trap-seal retention; Venting; Venting  
 criteria; Vents, reduced-size; DWV; Performance testing;  
 560. SP305-7.  
 dibility; Schur's lemma; Strain energy; Continuum  
 mechanics; Elasticity; Integration; Matrix calculus; Matrix  
 identity; Matrix theory; J.77B Nos. 3 and 4, 73-79 (1973).  
 SP305-5.  
 dling flammability; Research authorized; Flammable  
 fabrics; Flammable Fabrics Act of 1953; Flammable fabrics  
 program 1968-1969; TNS25. SP305-2.  
 dition; Ruthenium tetraoxide; Sodium borohydride;  
 catalysts; Fructose; Ketoses; Oxidation; Picoose; 12121.  
 SP305-3.  
 dition; Rutile; Symmetry conditions; Activation energy; In-  
 ternal friction; Point defect; 10114. SP305-1.  
 dition of area; Slack-quenched structures; Tempering tem-  
 perature; Tensile strength; Yield strength; AISI 5140 steel;  
 hardness; Heat treatment; 10984. SP305-2.  
 dition of measurement data; Software measurement tools;  
 data computing capacity; User satisfaction measurement;  
 4006, pp. 27-31. SP305-7.  
 dundant cuing; Sensory acuity; Sensory deterioration; Spatial  
 vision; User needs; Age and perception; Complexity; Home  
 design; Life cycle; Life space; Loss continuum; Macro space;  
 history; Micro space; SP361, Vol. 1, pp. 57-62. SP305-4.  
 dtrant corner; Exterior wall; Fire spread; Fire test; Ignition;  
 penetration BREAKTHROUGH; 13791. SP305-5.  
 dtrant holes; Air ducts in shields; Collimators; Neutron in-  
 strumentation; Neutron-neutron scattering; Neutron penetra-  
 tion; 13341. SP305-5.  
 dtrant holes; Straight ducts; Collimators; Multiple neutron  
 backscattering; Neutron experimental equipment; Neutron-  
 neutron scattering; 12812. SP305-4.  
 dtry; Space simulation; Thermal radiation; Vacuum;  
 weightlessness; Ablation; Particulate radiation; SP336.  
 SP305-3.  
 dtry; Test facility; Ballistic missiles; Heat protection; SP336,  
 pp. 893-904. SP305-3.  
 dree method for calcium; Accuracy; Atomic absorption  
 spectrometry; Calcium in serum; Clinical chemistry; SP260-  
 5. SP305-4.  
 dree methods; Specificity; Standard reference materials; Ac-  
 curacy; Analysis; Clinical chemistry; Measurement; Precision;  
 4209. SP305-6.  
 dree methods for clinical analysis; Standard reference  
 materials; Clinical analysis; 12771. SP305-4.  
 drence; Tissue; Trace; Variance; Activation; Analysis;  
 biological; Blood; Bone; Botanical; Destructive; Homogenei-  
 ty; Leaves; Liver; Neutron; Non-destructive; 10790. SP305-

Reference books (material); Alloys; Automated; Bibliography;  
 Data; Files; Indexing computer programs; Information;  
 Metals; Physical properties; 10863. SP305-2.  
 Reference configuration; Constraint equations; Eckart condi-  
 tions; Eulerian angles; Large amplitude vibrational coordi-  
 nate; Molecule-fixed axes; 12117. SP305-3.  
 Reference data; Abstraction reactions; Addition reactions;  
 Aqueous solution; Biological molecules; Electron transfer  
 reactions; Hydroxyl radical; Oxide radical ion; Radical reac-  
 tions; Rate constants; NSRDS-NBS46. SP305-5.  
 Reference data; Advisory services; Consultation; Cooperative  
 programs; NSRDS; 14505. SP305-6.  
 Reference data; Calibration; Cost-effectiveness; Data;  
 Economic growth; Information centers; Measurements;  
 Metrology; National Bureau of Standards; National Measure-  
 ment System; National Standard Reference Data System;  
 11036. SP305-2.  
 Reference data; Chlorine atom reactions; Hydrogen transfer  
 reactions; Liquid phase; Organic molecules; Organic radical  
 reactions; Rate constants; J. Phys. Chem. Ref. Data 3, No. 4,  
 937-978 (1974). SP305-6.  
 Reference data; Journal; Professional societies; Publications;  
 15734. SP305-8.  
 Reference data; Resistance thermometers; Thermocouples;  
 Thermometry; Vapor pressure; Calibration; Cryogenics;  
 Liquid helium; Liquid hydrogen; Liquid neon; Liquid  
 nitrogen; Liquid oxygen; 14342. SP305-6.  
 Reference data; Review; Chemistry; Evaluation of data; Infor-  
 mation retrieval; Physics; Publication; 11313. SP305-2.  
 Reference data; Russian literature; Bibliography; TN848.  
 SP305-6.  
 Reference data; Status report; Compilation; Critical evaluation;  
 Data; NSRDS; Physical chemistry; 13903. SP305-6.  
 Reference data; Thermal conductivity; Transport properties;  
 Conductivity; Critically evaluated data; Data compilation;  
 Elements; J. Phys. Chem. Ref. Data 1, No. 2, 279-421  
 (1972). SP305-6.  
 Reference data programs; Solar spectra; Spectra of late-type  
 stars; Sun-spot spectra; Atomic spectra; Molecular spectra;  
 Rare-earth spectra; 9950. SP305-1.  
 Reference data service; Standard reference data; Data files;  
 Data network; Data on-line; International data service; On-  
 line data; 15266. SP305-7.  
 Reference diodes; Zener reference diodes; Diodes, reference;  
 Long-term stability; 9694. SP305-1.  
 Reference electrodes; Temperature coefficients of e.m.f.;  
 Silver-silver chloride electrode; Glass electrode; Inner solu-  
 tions; pH measurement calomel electrode; 11247. SP305-2.  
 Reference electrodes; Temperature effects; Glass electrodes; In-  
 dustrial analysis; pH determination; pH instrumentation;  
 9560. SP305-1.  
 Reference ethanol solutions; Breath alcohol analyzers; Dichro-  
 mate oxidimetry; Performance standards; 15203. SP305-7.  
 Reference hydrometer; Specific gravity; Standard hydrometer;  
 Calibration; Density; Hydrometer; Hydrometer calibration;  
 J.73C Nos. 3 and 4, 57-65 (1969). SP305-1.  
 Reference intensities; Standard; X-ray diffraction; Crystal struc-  
 ture; Integrated intensities; Lattice constants; Peak intensi-  
 ties; Powder patterns; Monogr. 25, Section 10. SP305-4.  
 Reference intensities; Standard; X-ray diffraction; Crystal struc-  
 ture; Integrated intensities; Lattice constants; Peak intensi-  
 ties; Powder patterns; Monogr. 25, Section 9. SP305-3.  
 Reference intensities; Standard; X-ray diffraction; Crystal struc-  
 ture; Integrated intensities; Lattice constants; Peak intensi-  
 ties; Powder patterns; Monogr. 25, Section 7. SP305-1.  
 Reference intensities; Standard; X-ray diffraction; Crystal struc-  
 ture; Integrated intensities; Lattice constants; Peak intensi-  
 ties; powder patterns; Monogr. 25, Section 11. SP305-6.

- Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; *Monogr. 25, Section 8. SP305-2.*
- Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; *Monogr. 25, Section 12. SP305-7.*
- Reference intensities; Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; *Monogr. 25, Section 13. SP305-8.*
- Reference intensity ratios; Systematic errors in powder diffraction; Calculated powder patterns; *III, Microabsorption effects; Quantitative phase analysis; Quantitative powder diffraction; 15929. SP305-8.*
- Reference magnets; Calibration, permanent magnet standards; Magnet standards; Permanent magnet standards; 9245. **SP305.**
- Reference material; Cholesterol; Clinical standard; Combustion, heat of; Enthalpy; Formation, heat of; *J.79A No. 3, 493-496 (1975). SP305-7.*
- Reference material; Gross heating value; Methane; Heating value; Heat of combustion; *TN299. SP305.*
- Reference material; Resistivity; Standard; Thermal conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; Platinum; *J.71C4-258, 255-284 (1967). SP305.*
- Reference material; Resistivity; Standard; Thermal conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; Platinum; *10549. SP305-1.*
- Reference material; Resistivity; Standard; Thermal conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; Platinum; *11304. SP305-2.*
- Reference material, soln calorimetry;  $\text{SiO}_2(\text{c})$ , soln in  $\text{HF}(\text{aq})$ ; Thermochemistry; Enthalpy of soln,  $\text{SiO}_2$ ; Heat of soln,  $\text{SiO}_2(\text{c})$ ; Quartz, soln in  $\text{HF}(\text{aq})$ ; *J.77A No. 2, 205-215 (1973). SP305-5.*
- Reference materials; Analysis of toxic materials; Atmospheric analysis; Industrial hygiene; *NBSIR 73-256. SP305-7.*
- Reference materials; Calibration reference materials; Calibrators; Clinical control materials; Clinical standards; Consensus standards; *16358. SP305-8.*
- Reference materials; Chemical analysis; Rainwater analysis; *NBSIR 75-958. SP305-8.*
- Reference materials; Sampling; Concentration; Detectors; Extraction; Gas chromatography; Isolation and clean-up; Mass spectrometry; Organic trace analysis; Qualitative accuracy; Quality control; Quantitative accuracy; *SP422, pp. 9-34 (Aug. 1976). SP305-8.*
- Reference materials; Selenium; Trace elements; Urine; Arsenic; Biological fluids; Chromium; Copper; Fluorine; Lead; Nickel; *NBSIR 73-406. SP305-6.*
- Reference materials; SRM's; Standard materials; Standard reference materials; Standards; Certification; Certified reference materials; Materials; Meaningful measurements; Measurement; *SP408. SP305-7.*
- Reference materials; Standard reference materials; Standard Reference Materials program; Accuracy; Measurement; Measurement compatibility; National Bureau of Standards; *16549. SP305-8.*
- Reference materials; Sulfur dioxide; Air pollution; Chemical analysis; Pararosaniline method; Quality control; *NBSIR 75-662. SP305-7.*
- Reference materials; Thermochemical; Thermochemical standards; Thianthrene; Urea; Acetanilide; Bomb calorimetry; Calorimetry; Chlorobenzoic acid; Combustion; Creatinine; Fluorobenzoic acid; Nicotinic acid; *15441. SP305-7.*
- Reference materials; *15823. SP305-8.*
- Reference method; Specificity; SRM; Standard reference material; Systematic error; Certification; Meaningful measurement; Measurement; Measurement system; *Prec Monogr. 148. SP305-7.*
- Reference methods; Calibration; Intercomparison study; Quality assurance; Quality control; Radioactivity; *SP456 263-265 (Nov. 1976). SP305-8.*
- Reference methods; Routine methods; Secondary reference materials; Standard Reference Materials; Definitive matrix reference materials; Pure reference materials; *10. SP305-8.*
- Reference methods; SI units; Length; Mass; National Bureau of Standards; *15678. SP305-7.*
- Reference methods; Standard Reference Materials; Measurement; Measurement compatibility; *15265. SP305-7.*
- Reference methods; Standard reference materials; Accuracy; Clinical chemistry; Measurement; *15496. SP305-7.*
- Reference methods; Standard reference material; Systematic errors; Accuracy; Accurate measurement system; *Prec SP422, pp. 41-63 (Aug. 1976). SP305-8.*
- Reference point; Stirred liquid comparison bath; Temperature; Calibration; Emergent stem; Liquid-in-glass thermometer; *Monogr. 150. SP305-8.*
- Reference sample; X-ray analysis; Calibration; Filters; Organic leaves; *15984. SP305-8.*
- Reference samples; Absolute ratios; Isotopic abundances; *10471. SP305-1.*
- Reference samples; Silicate analysis; Accuracy; Analytical; *SP422, pp. 79-89 (Aug. 1976). SP305-8.*
- Reference samples; Testing laboratories; Accreditation; Certification; Evaluation; National system; *13056. SP305-4.*
- Reference samples; Trace elements; Body fluids; Fluids; Lead; Mercury; *15408. SP305-7.*
- Reference sources; Standards; SRM's; Biomedical; Clinical measurements system; Radioisotopes; Radiopharmaceuticals; *16151. SP305-8.*
- Reference specimens; Dielectric constant; Dissipation factor; Frequency; Fluorinated ethylene-propylene; Humidity; Polycarbonate; Polyethylene; Poly(1,4-cyclohexylenedimethylene terephthalate); Polystyrene; *J.71C2 119-125 (1967). SP305.*
- Reference spectrophotometer; Ultraviolet; Wavelength calibration; Averaging spheres; High accuracy transmittance; Integrating averaging devices; Linearity; Photometric precision; *TN SP305-8.*
- Reference standard; Absolute ratios; Atomic weight; Isotopic abundance; Potassium; *J.79A No. 6, 713-725 (1975). SP305-7.*
- Reference system; Structure factor; Limit of stability; Nuclear field theory; Metastability; Perturbation scheme; *10. SP305-8.*
- Reference tables; Temperature measurements; Thermocouples; Thermoelectric reference data; Thermometry; Calibration; Nickel-base alloys; Nickel-chromium alloys; Nickel-silicon alloys; *15518. SP305-7.*
- Reference tables; Thermometric fixed points; Blackbody; Calibrations; Optical pyrometer; Platinum resistance thermometer; Platinum-rhodium vs platinum thermocouples; *13577. SP305-5.*
- Reference Theta-Pinch Reactor; Tritium breeding; Bondaroff factors; Fusion reactors; Niobium; *SP425, pp. 722-723. SP305-7.*
- Reference threshold sound pressure levels; Standards for audiometers; Threshold of hearing; Audiometry; Earphone; NBS 9-A coupler; *12260. SP305-3.*
- Reference transfer method; Vacuum gauge calibration; *SI 141-150. SP305-3.*
- Reference values; Scattering; Cylinder scattering; Electromagnetic scattering; Lossy dielectric; Multilayer cylinder; *15. SP305-7.*

ence vaporization; Temperature consistency; Thermodynamic parameters (estimated); Beryllia hydrates (ss); Contaminants; Gold; Pyrometry; *J.76A No. 5, 511-5 (1972). SP305-4.*

ence waveform generation; Time domain measurements; Transient response Debye dielectric; Pulse distortion in transition lines; Pulse techniques; *NBSIR 73-304. SP305-6.*

ence wavelengths; Standard wavelengths; Vacuum ultraviolet; Optical spectra, atomic; *J. Phys. Chem. Ref. Data No. 4, 825-896 (1974). SP305-6.*

ence-intensities; Standard; Structure; X-ray diffraction; Instants; Crystal; Lattice; Measurements; Powder-patterns; *no. 25, Section 5. SP305.*

ences; Search; Systems; Thinking; Information retrieval; Information storage; Mechanized; Methodology; Optical-coincidence; Patents; *10527. SP305-1.*

ences; Spectroscopy; Transition probabilities; Atomic spectra; *12169. SP305-3.*

ences to atomic spectra; Spectra, atomic; Analyses of atomic spectra; Atomic spectra; Atomic spectra, H thru V; Bibliography, atomic spectra; Elements, spectra of H thru V; *306-1. SP305-1.*

ences to atomic spectra; Spectra, atomic; Analyses of atomic spectra; Atomic spectra, Cr through Nb; Bibliography, atomic spectra; Elements, spectra of Cr through Nb; *306-2. SP305-1.*

ences to atomic spectra; Spectra, atomic; Analyses of atomic spectra; Atomic spectra; Bibliography, atomic spectra, La through La, Hf through Ac; *SP306-3. SP305-1.*

ences to atomic spectra; Spectra, atomic; Elements, spectra of rare-earths; Analyses of rare-earth spectra; Atomic spectra; La through Lu, Ac through Es; Rare-earth spectra; *306-4. SP305-1.*

ences to atomic spectra; Spectra, atomic; Analyses of atomic spectra; Atomic spectra, H thru V; Bibliography, atomic spectra; Elements, spectra of H thru V; *SP306-1. SP305-1.*

ences to atomic spectra; Spectra, atomic; Analyses of atomic spectra; Atomic spectra, Cr thru Nb; Bibliography, atomic spectra; Elements, spectra of Cr thru Nb; *SP306-2. SP305-1.*

ences to atomic spectra; Spectra, atomic; Analyses of atomic spectra; Atomic spectra; Bibliography, atomic spectra; Elements, spectra of Mo thru La, La thru La, Hf thru Ac; *SP306-3. SP305-1.*

ences to atomic spectra; Spectra, atomic; Elements, spectra of rare-earths; Analyses of rare-earth spectra; Atomic spectra; La thru Lu, Ac thru Es; Rare-earth spectra; *SP306-3. SP305-1.*

ential transparency; Software quality; Structured programming; Top-down programming; Control structures; OTO-less programming; Program validation; Programming; proofs of correctness; *TN842. SP305-6.*

erral centers; Sources of data; Data centers; Data tabulations; Evaluated data; Material properties; *16007. SP305-8.*

iring; Strength; Surface flaws; Surface treatments; Thermal shock; Abrasive machining; Alumina ceramic; Chemical polishing; Crack healing; Delayed fracture; Glazing; Humidity; *SP348, pp. 353-363. SP305-4.*

lectance; Absorbance; CO laser calorimetry; CO laser mirrors; Dielectric-enhanced mirrors; Infrared laser mirrors; Metal mirrors; *SP462, pp. 189-194 (Dec. 1976). SP305-8.*

lectance; Antimony; Bismuth; Collective oscillations; Dielectric constant electron-energy-losses; Free-electron gas optical properties; Plasma resonance; *11464. SP305-2.*

lectance; Background effect; Munsell-value; *12723. SP305-*

Reflectance; Cavity; Cylindrical cavity; Diffusely reflecting; Emissivity; Normal emissivity; Radiation; *J.76A No. 4, 347-349 (1972). SP305-4.*

Reflectance; Characteristic electron energy loss; Dielectric constant; Far ultraviolet; Germanium; Optical constants; *10180. SP305-1.*

Reflectance; Compilation; Cryogenic; Infrared; Metals; *TN348. SP305.*

Reflectance; Compilation; Cryogenic; Infrared; Metals; *10540. SP305-1.*

Reflectance; Contrast; Crispness; Lightness; Munsell value; *9410. SP305.*

Reflectance; Directional-hemispherical; Polyvinyl fluoride; Pyroelectric detectors; *14721. SP305-7.*

Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; Absorbance; Contrast; Modulation; Notation; Optical density; Propagation; *9373. SP305.*

Reflectance; Reflectance factor; Symbols; Transmittance; Transmittance factor; Modulation; Notation; Optical density; Propagation; *15564. SP305-7.*

Reflectance; Reflectance of coherent radiation; Scattering; Scattering theory; Surface roughness; Transmittance; Bibliography; Emission; Heat transfer; Measurement techniques; Periodic surfaces; Polarization; Random surfaces; *J. Res. 80A No. 2, 207-220 (1976). SP305-8.*

Reflectance; Reflectance standards; Spectral reflectance; Spectral specular reflectance; Specular reflectance; Standards; Ultraviolet reflectance; Aluminum; Gold; Infrared reflectance; Interferometer; Mirrors; *SP260-38. SP305-4.*

Reflectance; Reflectance standards; Thin layer chromatography; Chromatography; Color matching; Color measurement; Diffuse reflectance; Kubelka-Munk function; *J. Res. 80A No. 4, 551-565 (1976). SP305-8.*

Reflectance; Reflectometer; Sodium chloride; Barium sulphate; Bidirectional reflectance; Bidirectional reflectometer; Black coating; Gonioreflectometer; Magnesium oxide; Mu sulphur; *J. Res. 80A No. 2, 189-205 (1976). SP305-8.*

Reflectance; Reflectometry; Photometry; Radiometry; *15863. SP305-8.*

Reflectance; Roughness; Scattering theory; Absorbance; Alumina; Ceramic; Emissivity; Emission; Optical; *10016. SP305-1.*

Reflectance; Scattering; Simulation; Spectral; Absorbing; Anomalous dispersion; Carbon dioxide; Cryodeposit; Cryogenics; Frost; Infrared; Integrating sphere; Mars; *SP336, pp. 165-183. SP305-3.*

Reflectance; Scattering; Spectrophotometry; Transmittance; Accuracy; Appearance; Colorimetry; Definition of spectrophotometry; Error analysis; Photometry; Radiation transfer; *TN594-9. SP305-6.*

Reflectance; Scattering; Spectrophotometry; Specular gloss; Accuracy; Appearance; Error analysis; Gloss; Photometry; *TN594-10. SP305-7.*

Reflectance; Scattering; Spectrophotometry; Translucency; Transmittance; Vitroile glass; Blurring effect; Edge loss; Error analysis; Flux loss; Plastics; *TN594-12. SP305-8.*

Reflectance; Scattering; Temperature dependence; Wavelength dependence; Multilayer dielectric mirror; Optical absorbance; *SP435, pp. 230-235 (Apr. 1976). SP305-8.*

Reflectance; Shallow cavity emission; Surface characterization; Thoria; Tungsten; Emission; Graphite; Iridium; Laser-source integrating sphere; *12940. SP305-4.*

Reflectance; Silver; Sputter deposition; Aluminum; Copper; Flash desorption spectroscopy; Gold; *SP462, pp. 195-202 (Dec. 1976). SP305-8.*

Reflectance; Sodium chloride coating; Thoria; Tungsten; Graphite; High temperature reflectance; Integrating sphere; Laser; *10571. SP305-1.*

- Reflectance; Specifications; Stability; Wet breaking load; Accelerated aging; Dry breaking load; Paper; PH; Records; 14605. SP305-6.
- Reflectance; Spectral; Absolute; 9744. SP305-1.
- Reflectance; Spectral emittance; Spectral reflectance; Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; Radiation properties; TN292. SP305.
- Reflectance; Spectral emittance; Spectral reflectance; Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; Radiation properties; 10017. SP305-1.
- Reflectance; Spectral radiation; Transmittance; Firefighters; Protective clothing; 14346. SP305-6.
- Reflectance; Spectrophotometry; Bidirectional reflectance factor; Diffuse reflectance; Diffuse transmittance; TN594-11. SP305-8.
- Reflectance; Specular walls; Thermal radiation; V-grooves; J70C4-238, 275-280 (1966). SP305.
- Reflectance; Stability; Storage; Tear strength; Testing; Aging; Alkalinity; Burst strength; Degradation; Differential thermal analysis; Durability; Manifold papers; Loads; PH; 12834. SP305-4.
- Reflectance; Stopping power; Beryllium; Far-ultraviolet; Optical properties; 11160. SP305-2.
- Reflectance; Surface effects; Thermal radiation properties; Absorption; Electromagnetic theory; Emittance; Measurement techniques; Metals; 13684. SP305-5.
- Reflectance; Symbols in reflectometry; Terms in reflectometry; Definitions in reflectometry; Photometry; Radiometry; 9823. SP305-1.
- Reflectance; Transmittance; High accuracy spectrophotometry; Photoelectronic linearity; SP378, pp. 1-29. SP305-5.
- Reflectance; Transmittance; High accuracy spectrophotometry; Photoelectronic linearity; J.76A No. 5, 375-403 (1972). SP305-4.
- Reflectance; Transmittance; Luminance; Luminous flux; Luminous intensity; Photometric brightness; Photometry; 9549. SP305-1.
- Reflectance; Ultraviolet; Antimony; Beryllium; Bismuth; Complex dielectric constant; Germanium; Least-squares fit to reflectance; Optical constants; 11556. SP305-2.
- Reflectance; Ultraviolet; Visible; Complex dielectric constant; Electron-energy-loss; Electronic band structure; Infrared; Least-squares fit to optical data; Optical constants; 11555. SP305-2.
- Reflectance electron energy loss; Vacuum ultraviolet; Optical constants; Polystyrene; 10784. SP305-1.
- Reflectance factor; Symbols; Transmittance; Transmittance factor; Absorbance; Contrast; Modulation; Notation; Optical density; Propagance; Reflectance; 9373. SP305.
- Reflectance factor; Symbols; Transmittance; Transmittance factor; Modulation; Notation; Optical density; Propagance; Reflectance; 15564. SP305-7.
- Reflectance measurements; Thermal radiation; Computational methods; Emissivity; Emittance measurements; Radiant heat transfer; 9303. SP305.
- Reflectance of coherent radiation; Scattering; Scattering theory; Surface roughness; Transmittance; Bibliography; Emittance; Heat transfer; Measurement techniques; Periodic surfaces; Polarization; Random surfaces; Reflectance; J. Res. 80A No. 2, 207-220 (1976). SP305-8.
- Reflectance spectra; Scattering coefficients; Statistical models; Absolute absorptivities; Continuum models; Diffuse reflectance; Radiative transfer; J. Res. 80A No. 4, 567-583 (1976). SP305-8.
- Reflectance spectrophotometry; Spectrophotometry; Color; Color matches; Light-diffusing specimens; 9822. SP305-1.
- Reflectance standards; Scattering surfaces; Bidirectional radiometry; Canopies; Diffuse reflectance; Diffuse transmission; J. Res. 80A No. 4, 597-603 (1976). SP305-8.
- Reflectance standards; Spectral reflectance; Spectral specular reflectance; Spectular reflectance; Standards; Ultraviolet reflectance; Aluminum; Gold; Infrared reflectance; Interferometer; Mirrors; Reflectance; SP260-38. SP305-4.
- Reflectance standards; Standards calibration; Barium sulfate; Diffuse reflectance spectra; Magnesium oxide; Opal glass; Radiant flux; J. Res. 80A No. 4, 585-595 (1976). SP305.
- Reflectance standards; Thin layer chromatography; Chromatography; Color matching; Color measurement; Diffuse reflectance; Kubelka-Munk function; Reflectance; J. Res. 80A No. 4, 551-565 (1976). SP305-8.
- Reflectances; Black coatings; Detectors; Radiometry; 16000. SP305-8.
- Reflecting objective; Spectrometers; Spherical aberration; Third-order theory; Unit magnification; Cassegrain; 14000. SP305-7.
- Reflecting optics; Laser damage; Laser fusion; Metal mirrors; SP462, pp. 331-337 (Dec. 1976). SP305-8.
- Reflecting systems; Third order spherical aberration; Telescopic systems; Collimators; Cubic equations; Optical design; 10088. SP305-1.
- Reflection; Absorption; Chromium; Iron; Mirror; Nickel; Platinum; 12910. SP305-4.
- Reflection; Albedo; Angular distribution; Backscatter; Characteristics; Monte Carlo; 16097. SP305-8.
- Reflection; Refraction; Standard deviation; Uncertainty; Tolerances; Calibration; Constant deviation prism; Geometrical model; Optical square; Pentaprism; NBSIR 76-100. SP305-8.
- Reflection; Ruby laser; Surface damage; Temporal pulse measuring; Transmission; 0.694  $\mu\text{m}$ ; Back-scattered; Precatastrophic damage; Pulse dynamics; SP414, pp. 189. SP305-6.
- Reflection; Thin films; Transmission; Interferometry; Krypton; Optical films; Phase shift; Polarized light; 14000. SP305-6.
- Reflection; Transmission; Transport calculation; Angular distribution; Electrons; Energy spectra; 14383. SP305-6.
- Reflection; Transmission; Transport calculation; Angular distribution; Electrons; Energy spectra; NBSIR 74-457. SP305-6.
- Reflection and interference of sound; Room acoustics; Sound fields; Acoustical energy density; Acoustics; Diffuse sound fields; 16318. SP305-8.
- Reflection approximation; Theoretical; Double ionization; Franck-Condon principle;  $\text{H}_2$ ; Kinetic energy; Proton; 10000. SP305-1.
- Reflection coefficient; Attenuation; Automated; Bolometer efficiency; Measurements; Network analyzer; PT 16509. SP305-8.
- Reflection coefficient; Reflectometers; Standing-wave ratio; Waveguide impedance; Impedance standard; 9564. SP305.
- Reflection coefficient; Reflectometer; Self-calibration; Standards; Vector voltmeter; Voltage; Admittance; Automatic precision measurements; Correlator; Current; Impedance; Microwave circuit parameters; Microwave measurements; Phase angle; Power; Ratio; TN673. SP305-7.
- Reflection coefficient; Return loss; Sliding short; Shorted termination; Waveguide; Microwave; TN602. SP305-3.
- Reflection coefficient; Review; Standards; Survey; Antennas; Attenuation; Field strength; Impedance; Measurement; Microwave; Noise; Phase shift; Power; Progress; 9000. SP305-1.
- Reflection coefficient; Scattering coefficient; Anharmonic resonance; Automatic network analyzers; Cross ratio; Microwave network analysis; TN623. SP305-4.



- coefficient; Scattering coefficients; Transmission coefficient; Waveguide standards; 2-port standards; Automatic measurement; Coaxial standards; Network parameters; *SP39*. **SP305-7.**
- coefficient; Six-port; Voltage; Admittance; Current; Impedance; Phase angles; Power; *15800*. **SP305-8.**
- coefficient; Six-port coupler; Voltage; Admittance; Current; Directional coupler; Hybrid junction; Impedance; Phase angle; *14378*. **SP305-6.**
- coefficient; Sliding short; Coaxial cavity tuning; Axial short; Precision transmission line; *11307*. **SP305-2.**
- coefficient; Transverse displacement; Vector solution; Approximation errors; Complex dielectric constant; Convergence confidence interval; Contour diagrams; Dielectric; Liquid; Diffraction; Experimental apparatus; Fresnel equations; *TN369*. **SP305-1.**
- coefficient; Transverse displacement; Vector solution; Approximation errors; Complex dielectric constant; Convergence confidence interval; Contour diagrams; Dielectric; Liquid; Diffraction; Experimental apparatus; Fresnel equations; *TN369*. **SP305-1.**
- coefficient magnitude; Repeatability; Coaxial connectors; Insertion loss; Microwave; *16495*. **SP305-8.**
- coefficient measurement; Tuners; Tuning circuit; Impedance measurement; Microwaves; Mm-waves; *12229*. **SP305-3.**
- coefficient measurement; Standing wave machine; RF; Impedance measurement; Microwave; Quarter wave; *1389*. **SP305-1.**
- coefficient standard; VSWR standard; Waveguide; Coaxial line; Impedance standard; *14080*. **SP305-6.**
- coefficient, VSWR; Attenuation; Measurement system; Millimeter; *TN619*. **SP305-4.**
- coefficients; Sky waves; Absorption; Antennas; Broadcasting; Ground waves; Ionosphere; Medium frequency; Polarization; Propagation; Radio; *9551*. **SP305-1.**
- coefficients; Thin films; Computer programs; Ellipsometry; Fortran program; Multiple films; Optical constants; *1479*. **SP305-1.**
- coefficients; Thin films; Computer programs; Ellipsometry; Fortran program; Multiple films; Optical constants; *1479*. **SP305-1.**
- coefficients; VSWR; Attenuation; Flange measurements; *TN642*. **SP305-5.**
- coefficient densitometry; Spectrophotometry; Triphenyl methane; X- and  $\gamma$ -rays; Cyanides; Dosimetry; Dyes; Electron beams; *11644*. **SP305-2.**
- coefficient groups; Symmetric groups; Symmetries; Hilbert basis; Integration; Invariants; Multiple integrals; Numerical integration; Quadrature; *13857*. **SP305-6.**
- coefficient of x-rays; Soft x-rays; X-rays; Fibers; Microfocus films; Microradiography; Nylon; Polyacrylonitrile; Polyadditions; *9488*. **SP305.**
- coefficient resonance; Transmission resonance; Adsorption; Electron emission; *11625*. **SP305-2.**
- coefficient resonators; Transmission resonators; Automatic  $Q$  measurement; Frequency-lock method;  $Q$  measurement; *1309*. **SP305-5.**
- coefficient techniques; Ultrasound; Velocity; Attenuation; *SP453*, pp. 135-139 (Oct. 1976). **SP305-8.**
- coefficient, multiple; Spectrophotometry, high accuracy; Systematic bias in spectrophotometry; Transmittance, correction; Correction for reflections; *J.77A No. 6*, 699-703 (1973). **SP305-5.**
- coefficient; Characterization surface; Ellipsometry; Interfacial studies; Optical constants; Polarization of light; *13268*. **SP305-5.**
- coefficient; Electronic constant; Electronic density of states; Gold (Au); Gold-copper alloys (Au-Cu); Gold-iron alloys (Au-Fe); Gold-silver alloys (Au-Ag); Optical constants; *SP323*, pp. 545-549. **SP305-4.**
- coefficient; Emissivity; Kirchhoff's Law; Lunar surfaces; Planetary atmospheres; *13025*. **SP305-4.**
- coefficient; Resistivity; Single crystal growth; Color-concentration dependence; Gadolinium monoselenide; Hall effect; Homogeneity range; Magnetic ordering; *SP364*, pp. 637-644. **SP305-4.**
- coefficient; Semiconductor; Bandgap; Band structure; Cadmium fluoride excitons; Optical absorption; *13017*. **SP305-4.**
- coefficient; Spectral line scattering; Emissivity; Planetary atmospheres; *12775*. **SP305-4.**
- coefficient; Strontium titanate; Absorption coefficient; Band structure; Electroreflectance; Optical properties; Perovskite; *10521*. **SP305-1.**
- coefficient; Three-dimensional scanning; Anechoic chamber evaluation; Omni-directional probe; *14952*. **SP305-7.**
- coefficient; Tungsten (W); Zinc (Zn); Dielectric constant; Electronic density of states; Molybdenum (Mo); Optical density of states; Optical properties; Photoemission; *SP323*, pp. 209-215. **SP305-4.**
- coefficient measurement; Laser calorimeter; Laser energy; Laser polarization; Laser power; *12554*. **SP305-4.**
- coefficient; Microwave; Impedance; Measurements; *J.70C3-227*, 165-168 (1966). **SP305.**
- coefficient; RF power; Coaxial; Coupler; Directional; *9333*. **SP305.**
- coefficient; Self-calibration; Six-ports; Vector voltmeter; Voltage; Admittance; Automated precision measurements; Correlator; Current; Impedance; Microwave circuit parameters; Microwave measurements; Phase angle; Power; Ratio; Reflection coefficient; *TN673*. **SP305-7.**
- coefficient; Sliding short; Two-port; Efficiency; Loss; *TN644*. **SP305-5.**
- coefficient; Sodium chloride; Barium sulphate; Bidirectional reflectance; Bidirectional reflectometer; Black coating; Gonioreflectometer; Magnesium oxide; Mu sulphur; Reflectance; *J. Res. 80A No. 2*, 189-205 (1976). **SP305-8.**
- coefficient; WR-12; Connector; Millimeterwave; *10699*. **SP305-1.**
- coefficient; WR-12 waveguide; Millimeter wave; *11049*. **SP305-2.**
- coefficient; Power equation concepts; *16552*. **SP305-8.**
- coefficient; Rotating probe devices; Slotted lines; Survey of automatic techniques; Swept frequency measurements; Wheatstone Bridge; Automatic network analyzers; Computer-controlled measurement; Magic tee; Microwave measurement methods; Multiple probe devices; *Monogr. 151*. **SP305-8.**
- coefficient; Standing-wave ratio; Waveguide impedance; Impedance standard; Reflection coefficient; *9564*. **SP305-1.**
- coefficient; Waveguide joints; Waveguide theory; Attenuation definitions; Attenuation measurement; Barretter mount efficiency; Coaxial connectors; Impedance measurement; Microwave network theory; Mismatch errors; Phase shift measurement; *Monogr. 137*. **SP305-5.**
- coefficient; Emissivity; Flashing light; Flux measurement; Irradiance; Material properties; Photometry; Projectors; Radiance; Radiometry; *SP300 Vol. 7*. **SP305-3.**
- coefficient; Photometry; Radiometry; Reflectance; *15863*. **SP305-8.**
- coefficient; Skin effect; Step response; System function; Transmission; Coefficient algorithms; Expansions; Inverse Laplace transform; *J.74B No. 3*, 155-173 (1970). **SP305-2.**
- coefficient; Space environment simulation chambers; Contamination collection units; Gas-liquid chromatography; Infrared spectrometry; Mass spectrometry; Quartz crystal oscillator mass monitors; Radiometry; *SP336*, pp. 25-49. **SP305-3.**

- Reflectometry; Sulfur dioxide; Thermoelectric heat pump; Water vapor condensation; Accelerated corrosion; Atmospheric corrosion; Corrosion mechanisms; Humidity cabinet; Laboratory corrosion apparatus; Photomicrography; 9990. SP305-1.
- Reflector; Yagi; Antenna; Director; Driven element; Gain; Radiation pattern; *TN688*. SP305-8.
- Reflector, cat's-eye; Retroreflector, cat's eye; Optical devices; Optics, precision; *15202*. SP305-7.
- Reflector posts; Waveguide; Controlled small reflections; Mismatch; *J72C No. 3, 197-201 (1968)*. SP305-1.
- Reflector posts; Waveguide; Controlled small reflections; Mismatch; *J72C No. 3, 197-201 (1968)*. SP305-1.
- Reflectors; Skylights; Windows; Daylight gathering; Daylighting of buildings; Energy conservation; Lenses; Light conduits; Light control; *NBSIR 76-1098*. SP305-8.
- Reflectors;  $\text{ThF}_4$ ; Thin film;  $\text{ZnSe}$ ;  $10.6 \mu\text{m}$ ; Absorbing inclusions; Damage statistics; Laser damage; *SP435*, pp. 216-229 (Apr. 1976). SP305-8.
- Reformatting; Report generator; Unpacking program; File editor; Fixed-field file editor; Fortran program; Insert program; Packing program; *TN444*. SP305-1.
- Reformatting; Report generator; Unpacking program; File editor; Fixed field file editor; Fortran program; Insert program; Packing program; *TN444*. SP305-1.
- Reformatting program; Report generator; Searching program; Alphanumeric data files; Data retrieval; Editing program; File editor; FORTRAN program; General-purpose modular programming; *TN700*. SP305-4.
- Reformulation of the Anderson model; Adsorbates on metal surfaces; Density of states; Impurity wave function; Magnetic impurities; Phase shift; *14017*. SP305-6.
- Refraction; Standard deviation; Uncertainty; Autocollimator; Calibration; Constant deviation prism; Geometrical model; Optical square; Pentaprism; Reflection; *NBSIR 76-993*. SP305-8.
- Refractive index; Aerosol fibers; Light scattering; Particle size measurements; Particulates; *SP412*, pp. 13-20. SP305-6.
- Refractive index; Annealing; Density; Glass; Hydrostatic compression; Polarizability; *9510*. SP305.
- Refractive index; Atomic spectroscopy; Dispersion; Photoabsorption; *16379*. SP305-8.
- Refractive index;  $\text{CClF}_3$ ;  $\text{CO}_2$ ; Coexistence curve; Critical region;  $\text{N}_2\text{O}$ ; Rectilinear diameter; *12341*. SP305-3.
- Refractive index; Clausius-Mossotti function; Lorentz-Lorenz function; Molecular polarizability; Orthopara composition; Parahydrogen; *10906*. SP305-2.
- Refractive index; Dispersion; Fused silica; Infrared materials; Optical materials; *9190*. SP305.
- Refractive index; Elasto-optical constants; Infrared materials; KCl; Laser windows; Photoelasticity; Piezo-optical constants; *15937*. SP305-8.
- Refractive index; Fused silica; Glasses; Interferometry; Optics; *J75A No. 4, 279-281 (1971)*. SP305-3.
- Refractive index; Interferometer; Optical homogeneity; *J. 73C Nos. 1 and 2, 1-4 (1969)*. SP305-1.
- Refractive index; Interferometer; Optical homogeneity; *J73C Nos. 1 and 2, 1-4 (1969)*. SP305-1.
- Refractive index; Optical glasses; Radiation effects; *9358*. SP305.
- Refractive index; Refractometer; Contamination; Differential refractometer; Identification; Impurity; Interferometer; Purity; *12475*. SP305-4.
- Refractive index; Refractometer;  $\text{CuCl}$ ; Dispersion; Interference fringes; *11581*. SP305-2.
- Refractive index; Refractometer; 1-chloronaphthalene; 1,2,4-trichlorobenzene; Differential refractive index;  $dn/dc$ ; *J76A No. 2, 151-155 (1972)*. SP305-4.
- Refractive index; Refractometric virial coefficients; Critical refractive index; Fabry-Perot interferometer; Lorenz-Lorentz function; Methane; Rectilinear diameter law; *15137*. SP305-7.
- Refractive index; Refractometry; Ruby; *13379*. SP305-5.
- Refractive index; Reinforcing fillers; X-ray-opaque; Barium fluoride; Composite materials; Dental restorations; *10 SP305-1*.
- Refractive index; RI variance; Statistics; Temperature coefficient; Auto headlamp glass; Population; *15086*. SP305-7.
- Refractive index; Sapphire; Cubic-spline interpolation; Cyclohexane; Interpolation; Polystyrene; *13635*. SP305-5.
- Refractive index; Scaling; Schlieren method; Specific intensity; Speed of sound; X-ray scattering; Critical region; Dielectric constant; Equation of state; Homogeneity; Light scattering; Power laws; *14932*. SP305-7.
- Refractive index; Scattering diagrams;  $360^\circ$  scattering by particles; Aerosol light scattering; Aerosol size measurement; Aerosol spectrometer; Aerosol sprays; Laser light scattering by aerosols; *SP412*, pp. 41-56. SP305-6.
- Refractive index; Shadowgraph; Homogeneity; Index gradient; Infrared; Interferometer; Laser; Measurement; Optics; *10023*. SP305-1.
- Refractive index; Single crystal; Stress optic constants; Birefringence; Germanium; KCl; *SP435*, pp. 164-169 (Apr. 1976). SP305-8.
- Refractive index; Smoke detector; Aerosol sizing; Aerosol spectrometer; Chemical characterization of particles; Produced particles; Laser light scattering by aerosols; Particle size measurements; Particulates; *SP412*, pp. 21-32. SP305-6.
- Refractive index; Specific refraction; Deuterium; Polarization; *11729*. SP305-2.
- Refractive index; Spectroscopy; Dielectric constant; Electric dipole moments; Gas phase; Microwave; Microwave absorption; Molecular beam; Permittivity; *NSRDS-NBS10*. SP305-1.
- Refractive index; Standard reference material; Viscosity; Weight average molecular weight; Z average molecular weight; Density; Differential refractive index; Gel permeation chromatography (GPC); Light scattering; Linear polyethylene; Melt flow rate; *SP260-42*. SP305-4.
- Refractive index; Stress-optic constants; Temperature coefficient of index; Thermal expansion;  $\text{ZnSe}$ ; Chemical vapor-deposited  $\text{ZnSe}$ ; Elastic compliance; Elastic constants; Polycrystalline  $\text{ZnSe}$ ; *15938*. SP305-8.
- Refractive index; Stress-optical constants; Thermal coefficient of refractive index;  $\text{As}_2\text{S}_3$ ; Chalcogenide glass; Coefficient of thermal expansion; Elastic constants; Infrared laser window materials; KCl; Photoelasticity; *SP414*, pp. 141-148. SP305-6.
- Refractive index; Stress-optical constants; Thermal coefficient of refractive index;  $\text{As}_2\text{S}_3$ ; Chalcogenide glass; Coefficient of thermal expansion; Elastic constants; Infrared laser window materials; KCl; Photoelasticity; Polycrystalline  $\text{ZnSe}$ ; *NBSIR 75-639*. SP305-7.
- Refractive index; Stress-optical constants; Thermal coefficient of refractive index;  $\text{ZnSe}$ ; Birefringence; Elastic constants; Infrared laser window materials; Interferometry; Photoelasticity; Polycrystalline  $\text{ZnSe}$ ; *NBSIR 75-781*. SP305-8.
- Refractive index; Stress-optical constants; Thermal coefficient of refractive index; Birefringence; Elastooptic constants; Infrared laser window materials; Interferometry; Photoelasticity; Piezo-optic constants; *NBSIR 76-1098*. SP305-8.

- Refractive index; Surface damage; Surface roughness; Thin films; Damage thresholds; Laser damage; *SP435*, pp. 289-295 (Apr. 1976). **SP305-8.**
- Refractive index; Surface films; Complex refractive index; Ellipsometry; Mercury; Optical constants; *9509*. **SP305.**
- Refractive index; Surfaces; Thin films; Bulk; Electro-absorption; Ion avalanche; Laser damage; Local field corrections; *14*, pp. 214-218. **SP305-6.**
- Refractive index; Synthetic focus; Tissues; Ultrasound; Acoustic attenuation; Acoustic velocity; Breast tumor; Computerized topography; Heart; Reconstruction; *SP453*, pp. 109-119 (1976). **SP305-8.**
- Refractive index; Temperature coefficient of refractive index; Thermal expansion; Interferometry; Light scattering; Oxides; Polarizability; Pressure; *J77A No. 6*, 755-763 (73). **SP305-5.**
- Refractive index; Temperature coefficient of refractive index; Alkali halides; Optical constants; *JPCRD 5*, No. 2, 329-528 (76). **SP305-8.**
- Refractive index; Temperature coefficient of refractive index; Selenide; *SP435*, pp. 170-174 (Apr. 1976). **SP305-8.**
- Refractive index; Temperature coefficient of refractive index; Zirconium fluoride; *SP462*, pp. 64-68 (Dec. 1976). **SP305-8.**
- Refractive index; Temperature measurement; Calorimetry; Interferometry; Electron beam; Interferometer; Radiation chemistries; Radiation measurement; *15619*. **SP305-7.**
- Refractive index; Thermal coefficient of refractive index; Thermal expansion coefficient; ZnSe; BaF<sub>2</sub>; CaF<sub>2</sub>; Fused silica; Interferometry; Photoelasticity; Piezo-optic constants; *NBSIR 1115*. **SP305-8.**
- Refractive index; Thermal conductivity; Thermo-optic properties; Transmittance; Chemical composition; Density; Glasses; Refractive index; Laser; Optical homogeneity; Photoelasticity; *J75A No. 3*, 163-174 (1971). **SP305-3.**
- Refractive index; Tungsten; Absorption; Ellipsometry; *12270*. **SP305-3.**
- Refractive index; Water vapor density; Angular scatter; Atmospheric fine structure; Dot angles; Radar returns; Radio length variations; *10232*. **SP305-1.**
- Refractive index in ultraviolet region; Total reflection; Ultraviolet spectrophotometry; Adsorption of polymers; Attenuation of total reflection; Conformation of adsorbed polymer molecules; Frustrated total reflection; Index of refraction in ultraviolet region; *9988*. **SP305-1.**
- Refractive index variation; Damage electron density; Electron density transient; Free electron absorption; Laser induced surface damage; Optical probe technique; *SP435*, pp. 356-361 (Apr. 1976). **SP305-8.**
- Refractive indices; Surface plate testing; Temperature measurement; Wavelength measurement; Double stars measurement; Expansion measurements; Lens and mirror testing; Optical engineering; Optical surfaces; Precision measurements; *599*. **SP305-1.**
- Refractive index holography; Temperature profile; Absorbed energy; Calorimetry; Electron beams; Interference fringes; Interferometry; Pulsed beams; *12324*. **SP305-3.**
- Refractometer; Contamination; Differential refractometer; Identification; Impurity; Interferometer; Purity; Refractive index; *12475*. **SP305-4.**
- Refractometer; CuCl; Dispersion; Interference fringes; Refractive index; *11581*. **SP305-2.**
- Refractometer; 1-chloronaphthalene; 1,2,4-trichlorobenzene; Differential refractive index; *dn/dc*; Refractive index; *J76A No. 2*, 151-155 (1972). **SP305-4.**
- Refractometric virial coefficients; Critical refractive index; Debye-Hückel refractometer; Lorenz-Lorentz function; Methane; Rectilinear diameter law; Refractive index; *15137*. **SP305-7.**
- Refractometry; Ruby; Refractive index; *13379*. **SP305-5.**
- Refractories; Standard Reference Materials; Atomic absorption; Ceramics; Classical procedures; Clay materials; Flame emission; *SP260-37*. **SP305-4.**
- Refractory; Casting; Coat; Dental; Investment; *14585*. **SP305-6.**
- Refractory; Sulfides; Transition metal; Coordination polyhedra; Crystal structure; Intermetallic; Phosphides; *SP364*, pp. 651-662. **SP305-4.**
- Refractory alloy; Specific heat; Thermodynamics; Electrical resistivity; Emission; High-speed measurements; High temperature; *14504*. **SP305-6.**
- Refractory alloys; Stainless steels; Strengthening mechanisms; Superalloys; Titanium alloys; Tool steels; Ultrahigh strength; Alloy steels; Austempered steels; Cold-drawn steels; Dispersion hardened alloys; Fiber and whisker reinforced materials; *12789*. **SP305-4.**
- Refractory compounds; Aluminum borides; Boron; Boron carbide; Carbon; Fluorine; Heat of combustion; Polytetrafluoroethylene (Teflon); *9270*. **SP305.**
- Refractory compounds; Thermodynamic; Vaporization; Enthalpy; Heavier elements; Literature survey; *9153*. **SP305.**
- Refractory crystals; Thermodynamic properties; Beryllium nitride; Drop calorimetry; Enthalpy data; Light-element compounds; *J73A No. 5*, 471-477 (1969). **SP305-1.**
- Refractory hard metal; Solid electrolytes; Cerium dioxide; Degradation; Electrocatalysis; Fuel cells; *NBSIR 76-1091*. **SP305-8.**
- Refractory hard metals; Solid State Chemistry; Chalcogenides; Crystallographic shear; Electron optical lattice images; Lone pair geometry; Nonstoichiometry; Oxides; *SP364*. **SP305-4.**
- Refractory hardmetals; Ti; TiC; Transition metal compounds; Bonding; Carbides; Cohesive energy; Density of states; Electronic structure; Heat of formation; *L<sub>1,II</sub>* spectra; *SP364*, pp. 567-582. **SP305-4.**
- Refractory materials; Thermophysics; Alloys; Electrical resistivity; High temperature; Melting point; Normal spectral emittance; *J78A No. 1*, 5-8 (1974). **SP305-6.**
- Refractory materials; Thin films; 4 f<sup>0</sup> configurations; Complex ions; Coordination polyhedra; Nonstoichiometry; Polymolecular frameworks; Rare earth optical spectra; Rare earth oxide; *SP364*, pp. 367-383. **SP305-4.**
- Refractory metal thermocouples; Standardization; Temperature measurement; Thermocouples; Thermometry; Base-metal thermocouples; Cryogenic thermocouples; Noble-metal thermocouples; Nonstandardized thermocouples; *15517*. **SP305-7.**
- Refractory metals; Sheathed thermocouples; Tantalum; Temperature measurements; Thermal emf drift; Tungsten-rhenium alloys; Beryllium oxide; *15797*. **SP305-8.**
- Refractory metals; Strain hardening; Strain rate; Stress strain diagrams; Tantalum; Tensile properties; Evaluation; High temperature tests; Molybdenum; Plastic flow; Poisson ratio; *13819*. **SP305-6.**
- Refractory metals; Thermocouple; Thermoelements; Sensor; Ultra high vacuum; W-Re alloys; EMF-temperature relationship; Furnace; High temperature; *J75C No. 2*, 99-106 (1971). **SP305-3.**
- Refractory metals; Thermophysical properties; High-speed methods; High temperature; Phase transitions; *13469*. **SP305-5.**
- Refractory oxides; Standing-wave fields; Thin films; Two-photon absorption; Damage thresholds; Electron avalanche; Picosecond pulses; *SP462*, pp. 292-300 (Dec. 1976). **SP305-8.**
- Refractory transition metal compounds; Tungsten carbide; Valence bonding; Voronoi polyhedra; Aluminum diboride—cadmium diiodide structure; Bidirectional orbitals; Effective charge; ESCA; Fermi surface distortion; Madelung constant; *SP364*, pp. 515-559. **SP305-4.**

- Refrigerated enclosures; Testing of vehicles; Wind effects on structures; Air leakage; Cooling load measurement; 14799. SP305-7.
- Refrigerated truck bodies; Simulated solar heating; Weight gain; Air leakage; Cooling loads; Rating and testing; 10260. SP305-1.
- Refrigerated trucks; Solar heating; Testing and rating methods; Air leakage; Cooling load; 9531. SP305-1.
- Refrigerated trucks; Testing method; Air exchange; Calculation method; Cooling load; Door usage; Helium trace measurement; 10701. SP305-1.
- Refrigeration; Air conditioning; Cooling and dehumidifying capacities; Effectiveness; Finned tube coil; Heat transfer; 14093. SP305-6.
- Refrigeration; Brayton; Cryogenics; TN366. SP305-1.
- Refrigeration; Claude; Cryogenics; TN354. SP305.
- Refrigeration; Cryogenic ejector; Ejector; Ejector pump; Jet pump; Low temperature refrigeration; 13570. SP305-5.
- Refrigeration; Cryogenics; Dielectrics; Electrocaloric; Heat switches; Polarization; 15491. SP305-7.
- Refrigeration; Demagnetization; Dilution refrigerator; Helium 3; Helium 4; Liquid helium; Mixtures; 16655. SP305-8.
- Refrigeration; Forced flow; Heat transfer; Helium; 13072. SP305-5.
- Refrigeration; Forced flow; Heat transfer; Helium; Pump; 14159. SP305-6.
- Refrigeration; Safety; Storage; Thermodynamic properties; Transportation; Conservation; Cryoelectronics; Cryogenics; Cryopumping; Helium; Liquefaction; Magnets; Purification; Monogr. 111. SP305-1.
- Refrigeration; Safety; Superconductivity; Superfluid; Cryogenics; Cryopump; Cryostat; Electrical lead; Heat transfer; Mechanical properties; 11147. SP305-2.
- Refrigeration; Simon; Size; Stirling; Claude; Cryogenics; Gifford-McMahon; Helium; Joule-Thomson; Liquid; Power; 11146. SP305-2.
- Refrigeration; Superconducting magnets; Transportation; Levitation; Magnetic suspension; Materials fatigue data; TN635. SP305-5.
- Refrigeration; Superconducting magnets; Suspension; Transportation; Urban transportation; Fatigue life; Magnetic properties; Materials; 13954. SP305-6.
- Refrigeration; Superconducting magnets; Transportation; Levitation; Magnetic suspension; Materials fatigue data; 15182. SP305-7.
- Refrigeration; Superconducting cables; Cryogenics; Helium pump; Power transmission; 15455. SP305-7.
- Refrigeration; Superconducting transmission lines; Superconductors; Brayton cycle; NBSIR 74-375. SP305-6.
- Refrigeration; Superconducting transmission lines; Brayton cycle; Cryogenic refrigeration; 16633. SP305-8.
- Refrigeration; Superconductivity; Cryogenic; Helium; Meeting summary; 15832. SP305-8.
- Refrigeration; Superconductors; Thermodynamics; Equation of state; Helium; Hydrodynamics; Near-critical flow; NBSIR 73-331. SP305-6.
- Refrigeration; Thermodynamic cycles; Applications; Cryogenic; 11520. SP305-2.
- Refrigeration; Thermodynamic properties; Cryogenics; Heat transfer; Helium; 14096. SP305-6.
- Refrigeration; Volume; 1.8 to 90 K; Cost; Cryogenic; Efficiency; Mass; 11457. SP305-2.
- Refrigeration accessories; Valves; Water-flow regulation; Performance characteristics; 13549. SP305-5.
- Refrigeration production; Tons; Amps; Condenser water; Economy; Energy input; Outside air wet bulb; Power savings; 12798. SP305-4.
- Refrigeration safety standards; Safety of appliances; Standards for safety; Government participation; 15890. SP305-8.
- Refrigeration, solid-state;  $\text{SrTiO}_3$ ; Adiabatic polarization; Casing technology; Dielectric cooling; Glass-ceramics; Magn thermal valve; Mechanical thermal valve; 14304. SP305-6.
- Refrigerator standards; Risk measurement; Safety standard; Reasonable hazards; Consumer products; Product safety; 16131. SP305-8.
- Refrigerator-freezers; Energy-efficient products; Experiment Technology Incentives Program; Life-cycle costing; Procurement experiments; NBSIR 75-954. SP305-8.
- Refrigerator/freezers; Room air conditioning; Consumer information; Efficiency; Energy; Label; 15451. SP305-7.
- Refrigerators; Cyclic refrigerators; Physical characteristics; 10094. SP305-1.
- Refrigerators; Energy efficient products; Experiment Technology Incentives Program; Life cycle costing; Procurement experiments; NBS-GCR-ETIP 76-10. SP305-8.
- Refuge areas; Smoke control; Building fires; Design; Evaluation; Fire alarms; Fire protection; Fire resistance; Fire spread; Fire statistics; Fire suppression; High buildings; Ignition source; Life safety; 14229. SP305-6.
- $\text{ReFe}_4$ ; Coriolis constant; Force fields; Hexafluoride; Jahn-Teller; 12654. SP305-4.
- Regenerating circuits; Transit time; Ultrasonic pulses; Frequency range; Measure pressures; Pressure gauges; Pressure-sensing components; 10563. SP305-1.
- Regge parameters; Sum rules; Charge exchange; Dispersion relations; Duality; Elementary particles; FESR; High energy scattering; Pion-nucleon scattering; 11703. SP305-2.
- Regge pole; SU(3); Symmetry breaking; Trajectory; Cross sections; Reactions; 14013. SP305-6.
- Regge pole; SU(3); Symmetry breaking; Trajectory; Cross sections; Reactions; 14166. SP305-6.
- Regge poles; Special functions; Analytical continuation; Electron scattering; Potential scattering; Recoupling coefficients; 12388. SP305-4.
- Regge poles; Special functions; Cardinal series; Interpolation; J.73B No. 3, 241-245 (1969). SP305-1.
- Regge residue; SU(3); Symmetry relations; Inclusive reaction; Pionization region; Quark model; 13868. SP305-6.
- Regime I; Regime II; Spherulite; Axialite; Chain folds; Crystallization rate; Molecular weight; Nucleation theory; Polyethylene; J.79A No. 6, 671-699 (1975). SP305-7.
- Regime II; Spherulite; Axialite; Chain folds; Crystallization rate; Molecular weight; Nucleation theory; Polyethylene; Regime; J.79A No. 6, 671-699 (1975). SP305-7.
- Region of discontinuity; Conjugate subgroups; Fuchsian group; Hilbert nullstellensatz; Kleinian group; Parabolic triangle group; Prime ideal; 9758. SP305-1.
- Region of discontinuity; Euler characteristic; Fundamental polyhedron; Hyperbolic space; Kleinian group; Limit; 9759. SP305-1.
- Regional development; Water policy; Water resources; Cost location; Cost sharing; Environmental quality; Efficiency; Equity; Multiobjectives; Multi-purpose projects; 132. SP305-5.
- Regional maintenance of the volt; Standard cells; Surveillance of local units of voltage; Voltage standards; Voltage transfer standards; Unit of voltage; 14935. SP305-7.
- Regional networks; Research computing; Academic computer networks; Network management; TN795. SP305-5.
- Regional transportation; Technology; Transportation; Transportation technology; Urban transportation; Future transportation; 10342. SP305-1.
- Regression; Rounding error; Stepwise regression; Computer programs; Curve fitting; Gram-Schmidt orthogonalization; Householder transformations; Iterative refinement; Least squares; Linear equations; Orthogonalization; Orthogonal polynomials; 12184. SP305-3.



Regression; Rounding error; Stepwise regression; Computer programs; Gram-Schmidt orthogonalization; Householder transformations; Least squares; Linear equations; Orthogonalization; Orthogonal polynomials; *J.73B No. 2, 59-61 (1969). SP305-1.*

Regression; Rounding error; Stepwise regression; Computer programs; Curve fitting; Gram-Schmidt orthogonalization; Householder transformations; Iterative refinement; Least squares; Linear equations; Orthogonalization; Orthogonal polynomials; *11522. SP305-2.*

Regression; Rounding errors; Statistics; Analysis of variance; Computer programs; Gram-Schmidt orthogonalization; Householder transformations; Ill-conditioned test problems; Iterative refinement; Least squares computations; Linear equations; OMNITAB; *13981. SP305-6.*

Regression; Second order transition; Statistics; Variance; Abundance; Confidence limits; Glass transition; Intercept; Intersection; Linear; *J. 76B Nos. 3 and 4, 179-192 (1972). SP305-10.*

Regression; Statistical problem solving; Distribution of first significant digit; Dutch; Graeco-Latin square; Language translation; Natural language; OMNITAB II computing system; *120. SP305-5.*

Regression line; Scheduling measurements; Statistical design of experiments; Systematic error; Youden's burette experiment; Accuracy; Analysis of variance; Measurement process; Precision; *12527. SP305-4.*

Regeneration; Adsorbed layer; Amorphous component; Fold face; Polymer crystals; *J.79A No. 5, 613-617 (1975). SP305-7.*

Regeneration; Representation; Commutator; Matrix; Orthogonal; Alternations; Skew-symmetric; *J.71B1-196, 43-46 (1967). SP305-11.*

Regeneration; Review; Atomic transition probabilities; Beam foil spectroscopy; Lifetimes; *12124. SP305-3.*

Regeneration; Spectral series; Systematic trends; Atomic oscillator strengths; Homologous atoms; Isoelectronic sequences; *645. SP305-5.*

Regeneration; Systematic trends; Atomic oscillator strengths; Perturbation theory; *13940. SP305-6.*

Regeneration; Atomic spectra; Solar spectra; Atomic spectra; Atomic spectra; Periodicities, atomic spectra; Rare-earth spectra; *12288. SP305-3.*

Regeneration; Applied research; Building codes; Building design; Building standards; Diffusion of information; *15655. SP305-12.*

Regeneration; Regulatory agency; Accuracy; Drugs; Foods; *1422, pp. 3-8 (Aug. 1976). SP305-8.*

Regeneration; Safety standards; Sampling plan; Sampling scheme; Quality assurance; *NBSIR 75-697. SP305-7.*

Regeneration; Standards; Consumer; Product safety; *15497. SP305-7.*

Regeneration; Standards; State-of-the-art study; Enforcement; Legislation; Mobile homes; *NBSIR 75-680. SP305-7.*

Regeneration; Strategy; Theory of games; Inspection; Mathematical model; *J. Res. 80B No. 2, 189-236 (1976). SP305-8.*

Regeneration; Factor; Ripple voltage; Transistor; Voltage regulation; Zener diode; D-C amplifier; Design equations; Differential amplifier; Dual regulator; Integrated circuit; Output resistance; Power dissipation; Power supply; Preregulator; *N371. SP305-1.*

Regeneration; Consumer commodities; Labeling; Packaging; Pollution; Quantity standards; *12259. SP305-3.*

Regeneration; Environmental samples, laboratories; Quality assurance; Radioactive effluents; Radioanalytical data; *SP456, pp. 249-261 (Nov. 1976). SP305-8.*

Regeneration; Requirements; Technology; Weights and measures. Administration; Conference; Laws; Procedures; *SP379. SP305-5.*

Regulations; Safety; Structural testing; Bicycle; Consumer safety; *NBSIR 75-913. SP305-8.*

Regulations; Smoke detectors; United States standards; Fire detection; *16187. SP305-8.*

Regulations; Standards; Transfer standards; Government agencies; Measurement assurance program; Permissible limits; Radiation; *14583. SP305-6.*

Regulations; State; Authority; Building; Energy; Legislation; *NBSIR 75-747. SP305-7.*

Regulations; State; Authority; Building; Energy; Legislation; *NBSIR 76-986. SP305-8.*

Regulations; States; Abstract; Compromise; Ineffectiveness; Measurements; Radiation; *SP456, pp. 31-36 (Nov. 1976). SP305-8.*

Regulations; Survey design; Health standards; Migrant labor camps; Questionnaire construction; *13787. SP305-5.*

Regulations; Textiles; Wearing apparel; Carpets; Fabrics; Flammable Fabrics Act; National Advisory Committee; Procedures; *11105. SP305-2.*

Regulations; Weights and measures; Consumer package; Exemption; Fluid measure; Labeling; Net quantity; Principal display panel; *H108. SP305-3.*

Regulator; Feedback; Modulator; *11087. SP305-2.*

Regulator; Stabilizer; X-ray tube; Controlled; Current; Emission; Impedance; *10807. SP305-1.*

Regulator; Stabilizer; X-ray tube; Controlled impedance; Current; Emission; *10140. SP305-1.*

Regulatory; Standards; Energy; Legal; *SP403, pp. 225-235 (June 1976). SP305-8.*

Regulatory; Therapy; Traceability; Diagnosis; Measurement accuracy; Medical facilities; *SP456, pp. 139-146 (Nov. 1976). SP305-8.*

Regulatory activities; Sensitivity analysis; Blood banks; Blood utilization statistics; Cost benefit analysis; Donor profiles; Peer review; *TN777. SP305-5.*

Regulatory agency; Accuracy; Drugs; Foods; Regulation; *SP422, pp. 3-8 (Aug. 1976). SP305-8.*

Regulatory analysis; Resource management; Salmon fisheries; Salmon fishery modeling; Simulation; State of Washington; Washington State; Washington State Fisheries; Fisheries; Fishery; Fishery modeling; Mathematical modeling; *NBSIR 75-745. SP305-7.*

Regulatory policy; Small business policy; Technology; Civilian R&D policy; ETIP; Incentives; Innovation; Procurement policy; *NBSIR 75-778. SP305-7.*

Regulatory process; Abnormal loading; Building regulations; Design process; European; Progressive collapse; *NBS-GCR-75-48. SP305-8.*

Regulatory process; Standards; Computer techniques; Construction; Enforcement process; Housing; Hurricane Agnes; Mobile home parks; Mobile homes; Performance data; *NBSIR 76-1058. SP305-8.*

Regulatory process; Standards; Construction; Hurricane Agnes; Housing; Mobile homes; Mobile home parks; Performance data; *NBSIR 75-641. SP305-7.*

Regulatory system; Agrément system; Building code of New York State; Building codes; Human requirements; National Conference of States; Performance approach; Performance criteria; Performance methodology; *14513. SP305-6.*

Regulatory system; Safety; Standards; Structural loading; Buildings; Codes; Design criteria; *15503. SP305-7.*

Regulatory tests; Simulation tests; Fire tests; *16113. SP305-8.*

Rehabilitation; Renovation; Abatement; Detection; Heat-gun; Lead paint; Materials evaluation; Performance specification; *15591. SP305-7.*

Rehabilitation; Synthesis; System; User needs; User values; Analysis; Cost; Evaluation financing; Housing; Improvements; Individual; Inspection; Minority groups; Performance; Real world; *SP361, Vol. 1, pp. 345-356. SP305-4.*

- Rehabilitation, conservation; Housing; Housing demand, supply, needs; Housing rehabilitation; Land economics; Market adjustments; Optimization and feasibility; *NBSIR 76-1043*. SP305-8.
- Reimann integral; Bounded variation; Improper integral; Monotonicity; Numerical integration; Quadrature; *13858*. SP305-6.
- Reinforced aluminum; Reinforced plastics; Structural composites; Tensile moduli; Tensile strength; Thermal conductivity; Thermal contraction; Boron; Cryogenics; Glass; Graphite; Literature review; PRD-49; *15745*. SP305-8.
- Reinforced aluminum; Stability; Thin shells; Torsion buckling; Aircraft structures; Boron/epoxy; Composite materials; *TN728*. SP305-4.
- Reinforced aluminum; Stability; Thin shells; Torsional buckling; Composite materials; Elastic buckling; *14424*. SP305-6.
- Reinforced concrete; Barrier penetration; Intrusion detection; Physical security; *13384*. SP305-5.
- Reinforced concrete; Reinforcement; Concrete; Corrosion; Durability; Material properties; Morphological research; Performance analysis; *SP361, Vol. 1, pp. 725-732*. SP305-4.
- Reinforced concrete; Reliability; Resistance mode; Safety; Serviceability; Stability; Structures; Design mode; Limit states design; Load; Performance criteria; *14656*. SP305-6.
- Reinforced concrete; Sensitivity analysis; Steel; Structural mechanics; Uncertainty; Creep; Fire endurance; Fire tests; *B5576*. SP305-8.
- Reinforced concrete; Shear tests; Structural engineering; Web reinforcement; Column; Ductility; Earthquake; *SP444, pp. IV-16—IV-36 (Apr. 1976)*. SP305-8.
- Reinforced concrete; Slenderness; Strength; Structural analysis; Walls; Axial load (force); Bending moment; Building codes; End-fixity; *11933*. SP305-3.
- Reinforced concrete; Slenderness ratio; Strength; Structural analysis; Structural design; Ultimate strength; Bending moments; Building codes; Column (supports); Frames; Long columns; *16412*. SP305-8.
- Reinforced concrete; Standard tests; Structure, testing; Building; Connections; Housing; Neoprene; Performance criteria; Performance evaluation; Performance testing; *TN706*. SP305-4.
- Reinforced concrete; Steel; Analytic methods; Concrete; Creep; Elevated temperature; Finite differences; Finite elements; Fire endurance; Fire tests; Isotherms; Prestressed concrete; *SP411, pp. 154-164*. SP305-6.
- Reinforced concrete construction; Reinforcement bars; Wire bar supports; Bars, concrete reinforcement; Concrete construction, supports; *P57-66*. SP305.
- Reinforced concrete masonry walls; Slenderness effect; Structural stability; Buckling; Compressive strength; Concrete block walls; Elastic stability; Flexural strength; Masonry walls; *B5533*. SP305-2.
- Reinforced masonry; Structural engineering; Walls; Bricks; Building codes; Buildings; Concrete blocks; Masonry; Research; *14107*. SP305-6.
- Reinforced plastic; Small furnace test; Smoke; Aluminum bulkhead; Combustion gases; Fire endurance; Insulation; Intumescent paint; Potential heat; *NBSIR 76-1012*. SP305-8.
- Reinforced plastic rod; Stress rupture of GRP rod; Composite materials; End fittings for FRP rod; Environmental resistance of GRP rod; Fiber-reinforced-plastic rod; Glass-reinforced-plastic rod; Guys, antenna; Mechanical properties of GRP rod; Pultrusion; *NBSIR 73-233*. SP305-6.
- Reinforced plastic rod; Stress rupture of FRP rod; Test methods, FRP rod; Weatherability, FRP rod; Composite materials; Fiber-reinforced-plastic rod; Glass-reinforced-polyester rod; Guys, antenna; Processing parameters, pultrusion; Pultrusion; *NBSIR 74-557*. SP305-7.
- Reinforced plastics; Reinforced polyester; Sustained load; Tensile shear; Adhesive bond; Aging; Composites; Compression; Flexure; Glass fiber; Housing system; Innovative; Laminate; Operation BREAKTHROUGH; Racking; *134*. SP305-5.
- Reinforced plastics; Shear strength; Sustained loading; Tensile strength; Adhesive bonding; Aging tests (materials); Composite materials; Glass fibers; Housing system; Lamina; *15624*. SP305-7.
- Reinforced plastics; Structural composites; Tensile moduli; Tensile strength; Thermal conductivity; Thermal contraction; Boron; Cryogenics; Glass; Graphite; Literature review; *PRD-49*; Reinforced aluminum; *15745*. SP305-8.
- Reinforced plastics, rod and rope; Rope, GRP; Static fatigue; GRP; Aeolian vibration, simulated; Composite materials; Fittings for GRP rod and rope; Grips, guy; Guys, antenna; Humidity, effects on GRP; Mechanical properties of GRP; *13392*. SP305-5.
- Reinforced polyester; Sustained loading; Tensile shear; Adhesive bond; Aging; Composites; Compression; Flexure; Glass fiber; Housing system; Innovations; Laminate; Operation BREAKTHROUGH; Racking; Reinforced plastics; *134*. SP305-5.
- Reinforced resins; Silicate cements; Solubility; Clinical research; Composites; Color stability; Dental materials; *10848*. SP305-1.
- Reinforced-polyester; Tanks; Chemical-resistant; Containers; Ducts; Equipment; Plastic; *PS15-69*. SP305-2.
- Reinforcement; Concrete; Corrosion; Durability; Material properties; Morphological research; Performance analysis; Reinforced concrete; *SP361, Vol. 1, pp. 725-732*. SP305-4.
- Reinforcement; Reversible; Rubber vulcanizates; Stiffness; Anisotropic;  $\beta$ -naphthyl group; Glass transition temperature; Phenyl  $\beta$ -naphthylamine; Physical forces; *9896*. SP305-1.
- Reinforcement bars; Wire bar supports; Bars, concrete reinforcement; Concrete construction, supports; Reinforced concrete construction; *P57-66*. SP305.
- Reinforcement, composite overlay; Reinforcement, cutouts and cracks; Shear analysis, nonlinear; Adhesively bonded joints; Composite materials; Composite-overlay reinforcement; Contour plotting; Cracks, reinforcement of; Cutouts, reinforcement of; *13607*. SP305-5.
- Reinforcement, composite overlay; Reinforcement, cutouts and cracks; Adhesively bonded joints; Composite materials; Composite-overlay reinforcement; Contour plotting; Cracks, reinforcement of; Cutouts, reinforcement of; Finite element analysis; Joints, adhesively bonded; *14142*. SP305-6.
- Reinforcement, composite overlay; Reinforcement, cutouts and cracks; Adhesively bonded joints; Composite materials; Composite-overlay reinforcement; Contour plotting; Cracks, reinforcement of; Cutouts, reinforcement of; Finite element analysis; Joints, adhesively bonded; *15508*. SP305-7.
- Reinforcement, cutouts and cracks; Adhesively bonded joints; Composite materials; Composite-overlay reinforcement; Contour plotting; Cracks, reinforcement of; Finite element analysis; Joints, adhesively bonded; Reinforcement, composite overlay; *14142*. SP305-6.
- Reinforcement, cutouts and cracks; Adhesively bonded joints; Composite materials; Composite-overlay reinforcement; Contour plotting; Cracks, reinforcement of; Cutouts, reinforcement of; Finite element analysis; Joints, adhesively bonded; Reinforcement, composite overlay; *15508*. SP305-7.
- Reinforcement, cutouts and cracks; Shear analysis, nonlinear; Adhesively bonded joints; Composite materials; Composite-overlay reinforcement; Contour plotting; Cracks, reinforcement of; Cutouts, reinforcement of; Debond analysis; *13607*. SP305-5.
- Reinforcements; "Aluminoborate anomaly;" barium; Composites; Dental materials; Glasses; Radiopaque; *126*. SP305-4.

forcements; Clinical evaluation; Clinical research; Composite restorations; Dental restorations; Dentistry; Monomers; Restorative dentistry; 13854. SP305-6.  
 forcements; Clinical evaluation; Clinical research; Composite restorations; Dental restorations; Dentistry; Monomers; Restorative dentistry; 14058. SP305-6.  
 forcements; Ruby; Sapphire; Strength; Surface perfection;  $\text{Al}_2\text{O}_3$ ; Annealing; Flame-polishing; SP348, pp. 213-232. SP305-4.  
 forcements; Wear; Composite resins; Composites; Dental materials; Fillers; Porous glass; Radiopacity; 16586. SP305-8.  
 forcements; Wear; Composite resins; Composites; Dental materials; Fillers; Porous glass; Radiopacity; 16587. SP305-8.  
 forcing fillers; X-ray-opaque; Barium fluoride; Composite materials; Dental restorations; Refractive index; 10847. SP305-1.  
 tion of observations; Stirling's formula; Stirling's numbers; *serie analytique des probabilités*; William Chauvenet; Abraham De Moivre; Avogadro's number; Brownian motion; Chauvenet's criterion; Coast and Geodetic Survey; 11618. SP305-2.  
 tion between spectra; X-ray absorption; X-ray inelastic scattering; Compton scattering; Plasmon scattering; Raman scattering; 12409. SP305-4.  
 tion, calculus; Aggregation; Automatic theory; Boolean algebras; Consolidation; DeMorgan-Pierce-Schroder relation algebra; Input-output models; Indecomposability; Markov chains; Mathematical economics; Mathematical logic; 10025. SP305-1.  
 tion to static failure; Slow crack growth; Tension/compression; Time to failure; Ceramics; Cyclic failure; 920. SP305-6.  
 transition between structures and physical properties; Vanadium oxides; Covalence parameters; Insulator-metal transitions; rocksalt like structures; SP364, pp. 205-218. SP305-4.  
 tionship; Mössbauer spectroscopy; Nuclear magnetic resonance; Organotin compounds; 11395. SP305-2.  
 tionships; Uses; Color; Environment; Experimenting with; Harmony; Hues; Illumination; Light; Personal uses; CIS6. SP305-7.  
 tive; Rocks; Rubidium; Soils; Absolute; Apollo; Composition; Isotopic; Lithium; Potassium; 15869. SP305-8.  
 tive; Survey; Isotope ratios; Magnesium; Natural; 9629. SP305-1.  
 tive abundance ratios; Absolute abundance ratios; Apollo; Isotope dilution analyses; Lunar samples; Mass spectrometry; 13090. SP305-5.  
 tive contrast; Resolving power; Chromatic aberration; Optical aperture; 10121. SP305-1.  
 tive creep; Thermoelastic; Transverse; Longitudinal; polyethylene terephthalate; Polypyromellitimide; 12165. SP305-3.  
 tive cross sections; Absolute cross sections; Critical review; Electron impact; Multiply charged ions; 9843. SP305-1.  
 tive efficiencies; Semiconductor array; Stepping motor; Backup detectors; Counting rate corrections; Electron scattering; 10671. SP305-1.  
 tive error; Arithmetic mean; Geometric mean; Harmonic mean; Means; J.72B No. 1, 1-4 (1968). SP305-1.  
 tive error; Backward recursion; Bessel function; Bit comparison; Error bounds; J.77B Nos. 3 and 4, 133-136 (1973). SP305-5.  
 tive error; Round-off; Evaluation; Newton form; Polynomial; J.71B1-191, 11-17 (1967). SP305.  
 tive error; Thinning; Cross sections; Linearization; Paging; re-processing; SP425, pp. 419-421. SP305-7.  
 tive humidity; Salt solutions; Saturated salt; Humidity; Humidity chamber; Microbiological growth; NBSIR 75-917. SP305-7.

Relative humidity; Structural sandwich panel; Temperature; Testing; Building composite; Building material; Conditioning; Equilibration; Gypsum wallboard; Methodology; NBSIR 75-767. SP305-7.  
 Relative humidity; Temperature; Bone; Dispersion phenomena; Maxwell-Wagner polarization; Piezoelectric  $d$  constant; Piezoelectricity; 16314. SP305-8.  
 Relative humidity; Thermal environment; Thermal neutrality; Air motion; Air temperature; Comfort; Mean radiant temperature; Performance; SP361, Vol. 1, pp. 31-42. SP305-4.  
 Relative humidity; Vapor pressure of water; Wet-bulb temperature; Antoine Equation; Dew point; Humidity; Hygrometry; Psychrometric chart; J.74C Nos. 3 and 4, 117-122 (1970). SP305-2.  
 Relative humidity; Water vapor measurement; "Brady Array" sensors; Electric hygrometer; Humidity; Humidity sensor; Moisture measurement; NBSIR 74-477. SP305-6.  
 Relative humidity; Weather resistance; Acid resistance; Color; Gloss; PH; Porcelain enamel; BSS50. SP305-6.  
 Relative incapacitation index; Relative stopping power; Bullets; Cartridges; Handgun ammunition; Law enforcement; 16305. SP305-8.  
 Relative intensities;  $\text{H}_2\text{CO}$ ; Inelastic electron scattering; Infrared transitions;  $\text{N}_2\text{O}$ ; 16578. SP305-8.  
 Relative line strengths;  $d^s + d^p$ ; Intermediate coupling;  $LS$  coupling; Ni II; 9937. SP305-1.  
 Relative measurements; Transition probabilities; Wall-stabilized arc; Line strength; Nickel-carbonyl; Ni I and Ni II; Oscillator strength; 9573. SP305-1.  
 Relative motion; Transportation; Urban design; Visual responses; Environmental design; Human factors; Interdisciplinary study; 11318. SP305-2.  
 Relative partial radiation widths;  $\gamma$ -transitions in  $^{57}\text{Fe}$  of  $^{56}\text{Fe}$  resonances;  $E_\gamma \approx 7$ -70 keV; Natural iron target; Nuclear reaction  $^{56}\text{Fe}(n,\gamma)$ ; SP425, pp. 816-818. SP305-7.  
 Relative phases; Spin-orbit interaction; Checking parameters; ( $d + s$ ) $p$ ; Electrostatic interaction; J.76B Nos. 1 and 2, 61-80 (1972). SP305-4.  
 Relative phases,  $SU(6)$  multiplets;  $35 \times 70$ ; Coupling coefficients; Permutation symmetry; Quark interchange; 12639. SP305-4.  
 relative production rate; Specific activities; Calculated sensitivities; Cross section parameters; Photon activation analysis; Photon flux distribution; 11053. SP305-2.  
 Relative quantum efficiencies; Solution standards; Emission spectra; Excitation spectra; Fluorescence; Fluorescence standards; Glass standards; Quinine derivatives; Rare earths; SP378, pp. 231-244. SP305-5.  
 Relative quantum efficiencies; Solution standards; Emission spectra; Excitation spectra; Fluorescence; Fluorescence standards; Glass standards; Quinine derivatives; Rare earths; J.76A No. 6, 641-654 (1972). SP305-4.  
 Relative sensitivity; Sample homogeneity; Solids; Statistics; Background; Electrical detection; Electrical discharge; Ion probe; Ion sensitive plates; Mass spectrometry; Pelletizing; Precision; 10814. SP305-1.  
 Relative signs; Double resonance; Isotopes; Nitrogen-15; Nuclear magnetic resonance; 10568. SP305-1.  
 Relative signs; Silicon; Coupling constants; Fluorine; Fluoroalkylsilanes; NMR; 16432. SP305-8.  
 Relative signs; Silicon; Spin coupling constants; Double resonance; Fluorine; Fluorosilanes; Hydrogen; Nuclear magnetic resonance; Phosphorus; 10373. SP305-1.  
 Relative spectral output; Wavelength; Bar code reader; Filters; Optical wedge; Photodetector; NBSIR 74-580. SP305-7.  
 Relative spectral response; Ultraviolet detector; Heat detector; Optical radiation sensor; Poling; Polymer; Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric effect; 15183. SP305-7.

- Relative stopping power; Bullets; Cartridges; Handgun ammunition; Law enforcement; Relative incapacitation index; 16305. SP305-8.
- Relative strengths of indicator dyes; Solvatochromism; Acid-base indicators; Acidity in nonaqueous solvents; Aprotic solvents; Methyl Yellow; Nile Blue A and derivatives; Nile Blue oxazone; Nonaqueous acid-base spectrophotometry; 9660. SP305-1.
- Relative to n-p scattering; U235 fission cross section; Linac source; Neutron energy 0.8 to 20 MeV; SP425, pp. 615-619. SP305-7.
- Relative transmittance factor; Dichroic polarizers; Optics; Pyrometry; Radiometry; *J.74C Nos. 1 and 2, 9-13 (1970)*. SP305-2.
- Relative yield; Gamma rays; Health physics; Linac; Radioactivity; 10726. SP305-1.
- Relative  $^{10}\text{B}$  standard; 24.3 keV neutron activation cross sections; SP425, pp. 920-922. SP305-7.
- Relativistic bound systems; Relativistic nuclear physics; Composite particles; Interacting quantum fields; Nuclear structure; Particle structure; *Monogr. 147*. SP305-7.
- Relativistic corrections; Spectroscopy; Dirac theory; Hydrogen; Line strength; Oscillator strength; *J.79A No. 5, 629-633 (1975)*. SP305-7.
- Relativistic effects; Spectral series; Systematic trends; Continuum; Discrete spectrum;  $f$ -sum rule;  $f$ -values; Lithium sequence; Oscillator strength distribution; Oscillator strengths; 15817. SP305-8.
- Relativistic effects; Spectral line formation; Stellar atmospheres; Radiative transfer; 16272. SP305-8.
- Relativistic effects; Spectral series; Systematic trends;  $f$ -values; Isoelectronic sequence; Lithium sequence; Oscillator strengths; *JPCRD 5, No. 3, 537-570 (1976)*. SP305-8.
- Relativistic electrons, excitation; Energy transfer, electronic; Fluorescence; Molecular dissociation; 16615. SP305-8.
- Relativistic fields; Wave equations; Causality; High spin fields; Inhomogeneous Lorentz group; *Monogr. 154*. SP305-8.
- Relativistic nuclear physics; Axiomatic field theory; Composite particles; Haag's theorem; Nuclear structure; Quantum field theory; 15695. SP305-7.
- Relativistic nuclear physics; Baryon resonances; Exchange currents; Nuclear magnetic moments; Nucleons;  $\pi$ -mesons; 12729. SP305-4.
- Relativistic nuclear physics; Composite particles; Interacting quantum fields; Nuclear structure; Particle structure; Relativistic bound systems; *Monogr. 147*. SP305-7.
- Relativistic quantum theory; Symmetric spaces; Conformal group; Fine structure constant; 12509. SP305-4.
- Relativity;  $\text{CH}_4$  hyperfine structure; High resolution spectroscopy; Laser spectroscopy; Line shape; Optical frequency standards; Recoil effect; 16603. SP305-8.
- Relativity; Gravity; Laser; Lunar motion; Moon; 12724. SP305-4.
- Relativity; SI second; Time scale accuracy algorithm; Time scale stability; Coordinate time scales; Frequency calibration; International frequency comparisons; Optimum frequency estimate; Primary frequency standards; 15672. SP305-7.
- Relativity; Space inversion; Time reversal; Charge conjugation; Parity; 14388. SP305-6.
- Relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; Nonlinear behavior; Polyisobutylene; Recovery; Stress; *J.70A6-423, 525-532 (1966)*. SP305.
- Relaxation; Chemical shift; Fluoroalkanes; Molecular dynamics; NMR; 16327. SP305-8.
- Relaxation; *cis*-1,3,5-trimethylcyclohexane; Dielectric; Dipole moment, gas; Microwave absorption; Paraldehyde; 14555. SP305-6.
- Relaxation; Density; Dilatometer; Entropy; Glass transition; Glass; Liquid; Polymer; Poly(vinyl acetate); *PVT; J.78A No. 3, 331-353 (1974)*. SP305-6.
- Relaxation; Dielectric; Ionic; Polarizability; 12407. SP305-4.
- Relaxation; End-to-end length; Excluded volume; Monte Carlo; Polymer chain dynamics; 12408. SP305-4.
- Relaxation; Internal motion; Magnesium fluosilicate hexahydrate; Nuclear magnetic resonance; 12884. SP305-4.
- Relaxation; Reorientation; Temperature dependence; Chloroform; Deuterium; NMR; Pressure dependence; 15305. SP305-7.
- Relaxation; Scalar coupling; Sensitivity;  $^{13}\text{C}$ ; Fourier transform Nmr; 12378. SP305-3.
- Relaxation; Shrinkage; Variable prestress; Creep; Loss; prestress; Prestressed concrete; *BSS13*. SP305-1.
- Relaxation; Simulation; Distribution; End-to-end length; Lattice model; Monte Carlo; Polymer chain dynamics; 9514. SP305-7.
- Relaxation; Single axis rotator; Site model; Smoluchowski equation; Dielectric loss; 14646. SP305-6.
- Relaxation; Solvent; Unit cell; Alpha; Density; Lamellar thickness; Polyethylene; 12577. SP305-4.
- Relaxation; Solvent; Unit cell; Annealing; Density; Lamellar thickness; Mechanical; Polyethylene; 12824. SP305-4.
- Relaxation; Spectra; Absorption; Dielectric loss; Gases; Impurity line shape; Microwave; Permeability; Permittivity; Pressure broadening; 9577. SP305-1.
- Relaxation; Spectra; Symmetry; Collisions; Gases; Molecular pressure broadening; Radiation; 9578. SP305-1.
- Relaxation; Spin; 65-335 K; Cerous magnesium nitrate hydrate; Lattice; Proton; 14860. SP305-7.
- Relaxation; Spin-lattice; Trichlorides;  $\text{Ce}^{3+}$ ,  $\text{Nd}^{3+}$ ,  $\text{Sm}^{3+}$ ,  $\text{Ho}^{3+}$  and  $\text{Er}^{3+}$ ; Electron-lattice interaction;  $\text{LaCl}_3$ ; Pulsed microwave; Rare-earth; 9924. SP305-1.
- Relaxation; Statistical-bead model; Autocorrelation; Correlation; End-to-end length; Fokker-Planck equation; Polymer chain dynamics; Radius of gyration; 9515. SP305.
- Relaxation; Stochastic process; Chain dynamics; Polymers; Random walk; 11786. SP305-2.
- Relaxation; Symmetry; Trapping center; Crystal; Cubic; Junction; Point defect; 11419. SP305-2.
- Relaxation; Temperature dependence; Elastic barrier; Lattice molecular rotation; 13756. SP305-5.
- Relaxation; Temperature drifts; Annealed; Crystallinity; Glass transition; Polyethylene; 13945. SP305-6.
- Relaxation; Time correlation; Autocorrelation; Correlation; Diffusion; Fluctuations; 13759. SP305-5.
- Relaxation; Transition probabilities; Exponential relaxation; Master equation; Moments; Probability distributions; 9520. SP305.
- Relaxation; Trapping center; Crystal symmetry; Equivalent sites; Jump rates; Point defects; *J.72A No. 3, 231-2 (1968)*. SP305-1.
- Relaxation; Vacuum ultraviolet; Atoms; Chlorine; Deactivation; Kinetic; 11294. SP305-2.
- Relaxation; Viscosity; Density; Entropy; Free volume; Glass; Glass transition; Liquid; Polymer; Poly(vinyl acetate); *PV 14777*. SP305-7.
- Relaxation energies; Chemisorption; Image potential shift; Polarization energy shift; 14975. SP305-7.
- Relaxation energy; Adsorption; Electron gas; Photoemission; 16421. SP305-8.
- Relaxation energy; Screening energy; Molecular hydrogen; Photoelectron spectroscopy; Polarization energy; 1574. SP305-8.
- Relaxation energy; Surface plasmons; Chemisorption; Photoemission; 15857. SP305-8.
- Relaxation energy; Surfaces; Tungsten; Ultraviolet photoemission; Valence band; Virgin states;  $\alpha$  states;  $\beta$  states; Adsorption; Carbon; Carbon monoxide; Chemical bonding; Chemisorption; Density dependent transitions; Desorption; Dissociative adsorption; 16419. SP305-8.



ation measurements; Spin exchange; Atomic hydrogen  
 am; Atomic hydrogen generation; Dispersion; Frequency  
 ability; Frequency standard; Hydrogen atom detection;  
 (hydrogen flux calibration; Hydrogen maser; 12982. SP305-4.  
 ation mechanism; Relaxation strength; Site model;  
 mechanical relaxation; Methyl branches; Paraffins;  
 polyethylene; Potential energy calculations; 15329. SP305-7.  
 ation methods; Diffusion equation; Diffusion of gases;  
 low reactor; Gas mixing; Mixing by diffusion; 12091.  
 305-3.  
 ation methods; Thermogravimetry; Weight-loss; Degradation;  
 Kinetics; Oxidation; Parameter jump method;  
 styrene; 15858. SP305-8.  
 ation modes; Reorientation; Anelastic relaxation; Calcium  
 oxide; Defect pairs; Dielectric relaxation; 12357. SP305-3.  
 ation oscillator; Rotatable document bin array; Seat belt  
 rubbing abrasion; Abrasion resistance testing; Automatic  
 cement distribution; Flexible tubing pump; Inverting amplifiers;  
 Laser beam phase shift; Laser heterodyning; Liquid  
 steering pump; TN437. SP305.  
 ation phenomena; Acoustic phonons; Ammonium bromide;  
 Brillouin scattering; Elastic constants; Light scattering;  
 755. SP305-4.  
 ation phenomena; Review; Dielectric constant; Dielectric  
 is; Fluoropolymers; 13717. SP305-5.  
 ation phenomena; Semiconducting polymers; Technology;  
 polymers; Dipole moments; Effects of radiation; 10466.  
 305-1.  
 ation phenomena; Vibrational populations; Floquet  
 theory; Laser-induced reactions; Multiphoton processes; Numerical  
 calculations; 16242. SP305-8.  
 ation process; Young's modulus; Cold-work; Dislocation  
 relaxation; Internal friction; *n*-alkane; 12581. SP305-4.  
 ation processes; Stochastic processes; Harmonic oscillators;  
 Master equation; Nonequilibrium processes; Nonlinear  
 relaxation; 9402. SP305.  
 ation processes; Stochastic processes; First passage times;  
 Fokker-Planck equation; Markov processes; Master equation;  
 1291. SP305-1.  
 ation strength; Site model; Mechanical relaxation; Methyl  
 branches; Paraffins; Polyethylene; Potential energy calculations;  
 Relaxation mechanism; 15329. SP305-7.  
 ation strength; Two-site model; Mechanical relaxation;  
 methyl branches; Paraffins; Polyethylene; Potential energy  
 calculations; 14752. SP305-7.  
 ation theory; Scalar additivity theory; Spectral line  
 broadening; Unified theory; 13867. SP305-6.  
 ation time; Binary mixture; Concentration fluctuations;  
 critical opalescence; Electric field effect and light scattering;  
 9523. SP305-1.  
 ation time; Nuclear magnetic resonance; Ortho hydrogen;  
 1230. SP305-2.  
 ation time; Soft x-ray spectroscopy; X-ray photoemission  
 spectroscopy; Alloys; Aluminum; Gallium; Gold; Indium; Intermetallic  
 compound; Knight shift; 12721. SP305-4.  
 ation time; Spin echo technique; Temperature dependence;  
 Antiferromagnetism; Magnon-Raman process; Nuclear  
 magnetic resonance; 9918. SP305-1.  
 ation time; Spin saturation; Electron static susceptibility;  
 lattice-bath; Neodymium ethylsulfate; 9291. SP305.  
 ation time; Transport coefficients; Zwanzig-Mori formalism;  
 Hydrodynamic regime; Ideal gas memory function; Limit of  
 stability; Metastable fluid states; Nonhydrodynamic  
 regime; 16601. SP305-8.  
 ation time; Tumor; In vivo; Mouse; Nuclear magnetic  
 resonance; 13194. SP305-5.  
 ation time; T<sub>1</sub>; Analyzers; Cryogenics; Hydrogen; Instrumentation;  
 Liquefier; Liquid hydrogen; Measurement; Nuclear spin relaxation  
 time; Ortho-para; 9486. SP305.

Relaxation time approximation; Transport theory; Boltzmann  
 relaxation equation; Boltzmann transport equation; 11077.  
 SP305-2.  
 Relaxation time for volume viscosity; Shear relaxation time;  
 Time correlation function; Volume viscosity; Corresponding  
 states fluid; Elastic moduli in liquids; 10695. SP305-1.  
 Relaxation times; Antiferromagnetism; CoF<sub>3</sub>; Magnon gap;  
 10624. SP305-1.  
 Relaxation times; Biopolymers; Carbon-13 magnetic resonance;  
 Polypeptides; 14475. SP305-6.  
 Relaxation times; C-13 magnetic resonance; Collagen;  
 Polymers; Polypeptides; Protein structure; 15330. SP305-7.  
 Relaxation times; Dielectric relaxation; Long chain molecule;  
 Molecular crystals; Multiple site model; Potential barrier to  
 rotation; 9787. SP305-1.  
 Relaxation times; Excluded volume; Lattice-model polymer  
 chains; Monte Carlo; Polymer chain dynamics; 14024.  
 SP305-6.  
 Relaxation times; Lattice-model polymer chains; Monte Carlo;  
 Polymer chain dynamics; 14025. SP305-6.  
 Relaxation times; Retardation times; Linear viscoelastic  
 behavior; 9881. SP305-1.  
 Relaxation times; Rotational diffusion; Spherical-top molecules;  
 Angular relaxation; ClO<sub>3</sub>F; Magnetic resonance; 12195.  
 SP305-3.  
 Relaxation times; Rotational diffusion; <sup>13</sup>C magnetic resonance;  
 Collagen; Conformation; Correlation times; Cyanogen  
 bromide peptides; Polypeptides; 16211. SP305-8.  
 Relaxation times; Solid solutions; Alloys; Contact term; Core  
 polarization; Exchange enhancement; Knight shifts; LaNi<sub>5</sub>;  
 LaNi<sub>5-x</sub>Pt<sub>x</sub>; NMR; Ordering; 14889. SP305-7.  
 Relaxation times; Space group; Symmetry condition; Crystallographic  
 point group; Jump rates; Point defects; 10113.  
 SP305-1.  
 Relaxation times; Supercritical fluctuations; Ultrasonic spectroscopy;  
 Viscous relaxation; Immiscibility; Oxide glasses;  
 11986. SP305-3.  
 Relaxation times; Thermal expansion; Two relaxation model;  
 Viscosity; Activation energy; Annealing; Germania glass;  
 Index of refraction; J.72A No. 4, 425-433 (1968). SP305-1.  
 Relaxation times; Two-relaxation time model; Volume relaxation;  
 Annealing; Borosilicate crown glass; Glass; Index of refraction;  
 J.71A3-456, 231-238 (1967). SP305.  
 Relaxation times; Volume relaxation times; Activation energy;  
 Annealing; Arrhenius behavior; B<sub>2</sub>O<sub>3</sub> glass; Distribution of  
 relaxation times; 11674. SP305-2.  
 Relaxation-rate parameters; Collision cross sections; Debye  
 relaxation; Foreign-gas mixtures; Gas mixtures; 9728. SP305-1.  
 Relaxations; Shear; Temperature; Torsion pendulum; *a*, *c* face  
 of cell; Compliance; Crystallization-oriented; Lamella  
 thickness; Logarithmic-decrement; Modulus; Polyethylene;  
 9689. SP305-1.  
 Release agents; Stress-strain curve; Volume dilation; Composite  
 materials; Coupling agents; Epoxy polymer; Parting agents;  
 Poisson's ratio; 12379. SP305-3.  
 Releasing agent; Atomic absorption; Atomic fluorescence;  
 Flame emission; Flame temperature; Interference; Oxidant-fuel;  
 Protective chelation; 11428. SP305-2.  
 Releasing agents; Solvents; Analysis; Atomic absorption; Detection  
 limits; Electrodeless discharge; Interferences; Nebulizer-burner;  
 Organic ligands; 11427. SP305-2.  
 "releasing agents" in flame emission and atomic absorption;  
 Magnesium; Ferrous SRMs; Stoichiometric mixtures uranium  
 oxide; Isotope ratio determination; Spectrophotometric titration;  
 Controlled potential coulometric; Molybdenum;  
 Homogeneous precipitation; TN402. SP305.  
 Relevance; Testing of information systems; Effectiveness;  
 Evaluation; Performance; TN297. SP305.  
 Reliability; Data; Information center; 11352. SP305-2.

Reliability; Renovation; Secondary; System; Variable; Anchor; Controls; Corrosion; Growth; Metering; Modern; Museum; Primary; *B5566*, pp. 102-115. **SP305-7.**

Reliability; Reproducibility; Safety; Accuracy; Conservation; Measurements; Nondestructive evaluation; Productivity; *16301*. **SP305-8.**

Reliability; Reproducibility; Standards; Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; Foil paper; Instrument characteristics; Materials testing; Measuring instruments; *11706*. **SP305-2.**

Reliability; Resistance mode; Safety; Serviceability; Stability; Structures; Design mode; Limit states design; Load; Performance criteria; Reinforced concrete; *14656*. **SP305-6.**

Reliability; Risk; Statistical analysis; Storms; Structural engineering; Wind loads; Wind speeds; Building codes; Probability distribution function; *15558*. **SP305-7.**

Reliability; Risk; Statistical analysis; Storms; Structural engineering; Wind loads; Wind speeds; Building codes; Extreme value distributions; Hurricanes; Probability distribution functions; *TN868*. **SP305-7.**

Reliability; Risk; Statistical analysis; Storms; Structural engineering; Wind pressure; Wind speed; Buildings (codes); Hurricanes; Probability distribution functions; *16545*. **SP305-8.**

Reliability; Rubidium; Stability; Aging; Calibration (USFS); Frequency standards; Gas cells; Performance (long term); *TN341*. **SP305.**

Reliability; Safe operating area limits; Second breakdown; Semiconductor devices; Thermal resistance; Transistor, power; Current crowding; Hot spots; *16328*. **SP305-8.**

Reliability; Safety; Design; Engineering education; Failure analysis; Failure analysis case histories; Failure prevention; *SP433*. **SP305-8.**

Reliability; Safety; Serviceability; Structures; Building criteria; Design; Optimization; *SP361, Vol. 1*, pp. 181-190. **SP305-4.**

Reliability; Sandwich panel; Shelter; Durability; Field inspection; Foam and beam; Honeycomb; Impact; Lightweight structures; Military; *NBSIR 76-1025*. **SP305-8.**

Reliability; Schools; Smoke detectors; Atriums; Fire detection; Flame detectors; Heat detectors; Hospitals; Hotels; Maintenance; Nursing homes; *16179*. **SP305-8.**

Reliability; Second breakdown; Thermal instability; Transistors; Breakdown; Diodes; *10048*. **SP305-1.**

Reliability; Second breakdown; Transistors; Electronics; Failure mechanism; P-n junctions; *10781*. **SP305-1.**

Reliability; Security; Small protection domains; Types; Capability; Capability-based addressing; Computer security; Extended-type objects; Operating system structures; Protection; Reliable software; *TN919*. **SP305-8.**

Reliability; Semiconductor; Automation; Integrated circuits; Measurements; Microelectronics; Process control; *16116*. **SP305-8.**

Reliability; Semiconductor devices; Testing (wire bond); Wire bond; Bonding; Electrical connection; Failure (wire bond); Integrated circuits; Microelectronics; *TN786*. **SP305-5.**

Reliability; Semiconductor devices; Survey (wire bond); Testing (wire bond); Thermocompression bonding; Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); *TN726*. **SP305-4.**

Reliability; Semiconductor devices; Silicon; Test methods; Microelectronics; Monolithic microcircuits; *10858*. **SP305-1.**

Reliability; Semiconductor devices; Wire bond; Electrical connection; Failure analysis; Intermetallic compounds; Kirkendall voids; Microelectronics; *14525*. **SP305-6.**

Reliability; Semiconductor devices; Testing (wire bond); Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; Integrated circuits; *SP400-2*. **SP305-6.**

Reliability; Semiconductor devices; Silicon; Wire bonding; D bonding; Hermeticity; Integrated circuits; Measurement methods; Microelectronics; Oxides; Photolithography; Process control; *SP400-3*. **SP305-6.**

Reliability; Semiconductor devices; Surgical implants; Cardiac pacemaker; Data banks; Failure analysis; Failure modes; Hermeticity; Hybrid devices; Leak testing; Measurement technology; Microelectronics; MOS devices; Process control; *SP400-28*. **SP305-8.**

Reliability; Semiconductors; Silicon; Test patterns; Data acquisition; Data display; Integrated circuits; Measurement technology; Microelectronics; Process control; *SP 400-1*. **SP305-8.**

Reliability; Shipboard; 77 K refrigerator; Cryogenics; Infrared detector; Low capacity; *14305*. **SP305-6.**

Reliability; Shipboard; 77 K refrigerator; Cryogenics; Infrared detector; Low capacity; *NBSIR 74-372*. **SP305-7.**

Reliability; Signature analysis; Vibration; Bearings; Diagnostic Gears; *SP336*, pp. 407-448. **SP305-3.**

Reliability; State-of-the-art; Survey; Automated measurements; Computer; Concepts; *14738*. **SP305-7.**

Reliability; Structural engineering; Wind (meteorology); Wind pressure; Buildings (codes); Failure; Probability distribution functions; *16544*. **SP305-8.**

Reliability; Structural failures; Deterioration; Failure; Limit states design; Mode of failure; *14106*. **SP305-6.**

Reliability; Subjective evaluation; Maintainability; Measures of effectiveness; Multidimensional decisions; *SP361, Vol. 1*, pp. 63-71. **SP305-4.**

Reliability; System reliability; Uncertainty; Accuracy; Accuracy chart; Calibration uncertainties; Measurement; Measurement systems; *11198*. **SP305-2.**

Reliability; Test patterns; TTL; Vendor qualification; Circuit procurement; Component screening; Custom circuits; LSI; Microelectronics; Parameter control; Process uniformity; Random faults; *16620*. **SP305-8.**

Reliability; Testing (wire-bond); Wire-bond; Bibliography; Degradation (wire-bond); Discrete devices; Electrical interconnection; Fabrication (wire-bond); Failure (wire-bond); Hybrid circuits; Integrated circuits; Microelectronics; *TN593*. **SP305-4.**

Reliability; Thermal hysteresis; Thermal resistance; Thermographic measurements; Transistor screening; Current conduction; DC current gain; Hot-spot screening; Methods of measurement; Power transistors; *12474*. **SP305-4.**

Reliability; Traceability; Calibration records; Calibration system specification; Intervals; Procedures; Recall; *SP335*, pp. 47-50. **SP305-3.**

Reliability; Transistors; Failure analysis; Hot spots; Integrated circuits; Laser scanner; Measurement method; Nondestructive test; Nonlinear operation; Optical scanner; *SP400-27*. **SP305-8.**

Reliability (microelectronic); Transistors; Wire bond; Bond pull test (nondestructive); Metallurgical; *15430*. **SP305-7.**

Reliability of smoothing procedures; Aluminum; Electronic density of states; Free electron parabola; QUAD scheme; *SP323*, pp. 795-800. **SP305-4.**

Reliability of working instruments; Calibration intervals; Economy in adjusting quality level; Measurement uncertainty; *SP335*, pp. 57-64. **SP305-3.**

Reliability, systems effectiveness, tradeoffs; Calibration intervals; Exponential distribution; *SP335*, pp. 65-72. **SP305-3.**

Reliable; Specification; Use; Valid; Biological; Chemical; Physical; *13259*. **SP305-5.**

Reliable software; Reliability; Security; Small protection domains; Types; Capability; Capability-based addressing; Computer security; Extended-type objects; Operating system structures; Protection; *TN919*. **SP305-8.**

- Rem: Concrete walls; Neutron shielding; Particle accelerators; 14691. SP305-6.
- Remainders; Taylor series; Iterated integrals; J72B No. 1, 5 (1968). SP305-1.
- Remanance; Susceptibility; Alloy; Copper; Cryogenic; Iron; Oxide; Resistivity; 16632. SP305-8.
- Remanent; Strontium titanate; Dielectric relaxation; Electret state; Impurity; Ordering transition; Polarization; 16639. SP305-8.
- Remanent field; Saturable ferrite; Detector; Magnetic field; Magnetic null; Null measureable; 10586. SP305-1.
- Remarks; Small information groups; Chemical literature; Documentation services; 9779. SP305-1.
- Remittance processing; Remittance register; Audit trail; Check endorsement; Check handling; Data entry; Document labeling; Labeling; Listing; Man machine interface; MICR printing; NBSIR 74-577-1. SP305-6.
- Remittance processing; Remittance register; Audit trail; Check endorsement; Check handling; Data entry; Document labeling; Labeling; Listing; Man machine interface; MICR printing; NBSIR 74-577-2. SP305-6.
- Remittance register; Audit trail; Check endorsement; Check handling; Data entry; Document labeling; Labeling; Listing; Man machine interface; MICR printing; Remittance processing; NBSIR 74-577-1. SP305-6.
- Remittance register; Audit trail; Check endorsement; Check handling; Data entry; Document labeling; Labeling; Listing; Man machine interface; MICR printing; Remittance processing; NBSIR 74-577-2. SP305-6.
- Remote; Service; Users; Administration; Batch; Computing; Documentation; 13718. SP305-5.
- Remote access; Teletype; Time-sharing; TN419. SP305-1.
- Remote clock comparisons; Simultaneous reception; Time dissemination; Time stability; Time synchronization; Time transfer; TV color subcarrier; 60-Hz power line; Atomic clock; Frequency calibration; Frequency stability; Optical pulsars; 12986. SP305-4.
- Remote computer systems; Bibliographic retrieval; Computer terminals; 14458. SP305-6.
- Remote computer terminals; Soft copy; Text-editing displays; Visual displays; Alphanumeric displays; ASCII code; Cathode-ray-tube displays; Control functions; Display terminals; Interactive terminals; 14466. SP305-6.
- Remote computer terminals; Soft copy; Text editing displays; User control functions; Visual displays; Alphanumeric displays; ASCII Code; Cathode-ray-tube displays; Control functions; Display terminals; Interactive terminals; 14652. SP305-6.
- Remote computer utilization; Computer-aided design; Computer networks; Interactive graphics, performance measurement; 13784. SP305-5.
- Remote consoles; Timesharing; Bibliographies; Citations; Computer; Information retrieval; J72B No. 1, 61-78 (1968). SP305-1.
- Remote control systems; Systems engineering; State-of-the-art reviews; Acceptability; Coding; Costs; Data transmission systems; Decisionmaking; Economics; Errors; Information theory; Input-output devices; Interfaces; Malfunctions; Man-machine systems; NBS-GCR-74-29. SP305-8.
- Remote data input; Administration; Hospital data communications; Laboratory; Nursing station; Pharmacy; Real-time hospital information system; 9500. SP305.
- Remote input devices; Archives; Displays; Information retrieval; 10641. SP305-1.
- Remote job entry; Resource sharing; Computer networks; Computer-to-computer transfers; Interactive terminals; Minicomputer-based systems; Network configuration; TN804. SP305-6.
- Remote positioner; Rotary switches; Vibrating-reed electrometer; 9471. SP305.
- Remote sensing; Agriculture; Clinical analysis; Economic impact; Energy crisis; Meteorology; Photometry; Phototherapy; Pollution; Radiometry; TN594-4. SP305-5.
- Remote sensing; Safety; Energy crisis; Health; Meteorology; Photometry; Pollution monitoring; Radiometry; 14674. SP305-6.
- Remote sensing; Solar monitoring; Source standards; Blackbodies; Lamp standards; Radiometry; 16619. SP305-8.
- Remote sensing; Source data automation; Speech recognition; Audio inputs; Automatic pattern recognition; Character recognition; Communication systems; Data transmission; Graphic inputs; Image enhancement; Monogr. 113, Volume 1. SP305-2.
- Removable disk packs; Computer disk controllers; Computer disk drives; Computer disk interface; Disk controllers; Disk drive characteristics; Disk pack interchangeability; Disk track format; Interface electrical characteristics; Interface functional characteristics; NBS-GCR-76-63. SP305-8.
- Removal and shaping of ceramics; Surface treatment; Ceramic machining; Ceramics; Mechanical effects of machining; SP348. SP305-4.
- Removal cross section; Systematic errors; 14-MeV activation analysis; Correction factors; Neutron and gamma-ray attenuation; Oxygen; 10589. SP305-1.
- Removal cross section; Systematic errors; 14-MeV activation analysis; Annihilation radiation; Correction factors; Neutron and gamma-ray attenuation; Photopeak analysis; 11648. SP305-2.
- Removal mechanism; Surface damage; Surface finish; Surface grinding; Wear mechanism; Alumina; Cylindrical grinding; Diamond grinding wheel; Electron microscopy; SP348, pp. 99-112. SP305-4.
- Removal of phenylhydrazine residue from phenylsazones; Cation-exchange resin; Inosose phenylhydrazones; Inosose phenylsazones; Preparation of inososes from phenylhydrazones; 9705. SP305-1.
- Renaissance bronzes; Widener collection; Art restoration; Cellini; Chemical microscopy; National Gallery of Art; 11984. SP305-3.
- Rendition of color; Color; Flattery; Illuminants; Preference; 10375. SP305-1.
- Renewal equation; Renewal processes; Statistics of clock ensembles; White noise; Zero crossings; Clock errors; Dispersion of clock reading; Flicker noise; Random-walk noise; 11332. SP305-2.
- Renewal processes; Statistics of clock ensembles; White noise; Zero crossings; Clock errors; Dispersion of clock reading; Flicker noise; Random-walk noise; Renewal equation; 11332. SP305-2.
- Renner splitting; Temperature dependent absorption coefficient; Transition moment; Ultraviolet; Ab initio potential curve; Carbon dioxide; Quasi-linear molecule; 12458. SP305-4.
- Renormalization; Coexistence curve; Critical azeotrope; Critical double point; Decorated lattice gas; Maxithermal point; 14087. SP305-6.
- Renormalization; Time-ordering operator; Vacuum polarization; Weak interactions; Gauge invariance; Quantum electrodynamics; 14429. SP305-6.
- Renovation; Abatement; Detection; Heat-gun; Lead paint; Materials evaluation; Performance specification; Rehabilitation; 15591. SP305-7.
- Renovation; Secondary; System; Variable; Anchor; Controls; Corrosion; Growth; Metering; Modern; Museum; Primary; Reliability; BS566, pp. 102-115. SP305-7.
- Reorientation; Anelastic relaxation; Calcium fluoride; Defect pairs; Dielectric relaxation; Relaxation modes; 12357. SP305-3.

Reorientation; Residence time; Rubidium hydrosulfide; Vibration amplitude; Neutron scattering; Orientational disorder; Phase transition; 13930. SP305-6.

Reorientation; Residence time; Single crystal; Ammonium bromide; Ammonium ion; Neutron scattering; Orientational disorder; 15032. SP305-7.

Reorientation; Sodium hydrosulfide; Crystal structure; Ion orientation; Libration; Neutron diffraction; Phase transition; 12559. SP305-4.

Reorientation; Temperature dependence; Chloroform; Deuterium; NMR; Pressure dependence; Relaxation; 15324. SP305-7.

Reorientation effect; Admixture; Anharmonicities; Branching ratios; Electron scattering; Phonons; 12927. SP305-4.

Reorientation effect; Admixture; Anharmonicities; Branching ratios; Electron scattering; Phonons; 16508. SP305-8.

Reorientation processes; Anelastic relaxation; Calcium fluoride; Defect pairs; Dielectric relaxation; EPR lifetime broadening; Fluorine interstitials; Gadolinium ions; 15121. SP305-7.

ReO<sub>3</sub>-type compounds; Nb<sub>2</sub>O<sub>5</sub>-P<sub>2</sub>O<sub>5</sub>; NbPO<sub>3</sub>; Nb<sub>2</sub>P<sub>2</sub>O<sub>7</sub>; Nb<sub>3</sub>PO<sub>7</sub>; Nb<sub>4</sub>P<sub>2</sub>O<sub>11</sub>; P<sub>2</sub>O<sub>5</sub>-Nb<sub>2</sub>O<sub>5</sub>; Phase diagram; 11903. SP305-3.

Repair of records; Storage of records; Slides; Films; Negatives; Paper; Photographs; Preservation of records; Prints; Records; C.I.S.S. SP305-4.

Repassivation; Stress corrosion; Chloride; Ellipsometry; Low carbon steel; Nitrate; Nitrite; 14882. SP305-7.

Repassivation kinetics; Stainless steel; Stress corrosion cracking; Titanium alloys; Chloride; Crevice corrosion; Dissolved oxygen; Ellipsometry; Nitrates; PH; 13769. SP305-5.

Repassivation kinetics; Stainless steel; Stress corrosion; Testing techniques; Chloride; Crevice corrosion, ellipsometry failure prediction; Molybdenum; NBSIR 74-583. SP305-7.

Repassivation kinetics; Steel; Stress corrosion; Tribo-ellipsometry; 14283. SP305-6.

Repassivation kinetics; Stress corrosion cracking; Titanium alloy; Tribo-ellipsometry; 14189. SP305-6.

Repassivation kinetics; Stress corrosion; Chemical breakdown of passivity; Chloride; Crevice corrosion; Ellipsometry; Iron; Molybdenum; NBSIR 75-916. SP305-8.

Repeatability; Coaxial connectors; Insertion loss; Microwave; Reflection coefficient magnitude; 16495. SP305-8.

Repeatability; Reproducibility; Accuracy; Acoustics; Noise; Precision; 14866. SP305-7.

Repeatability; Reproducibility; Test methods, evaluation of; Interlaboratory testing; Precision; 12333. SP305-3.

Repeatability; Reproducibility; Test methods; Transformations; Weighting; Interlaboratory comparisons; Invariance; Models; Precision; Precision of measurement; 15909. SP305-8.

Repeater; Vertical antenna; Duplexer; Fm transceiver; Land-mobile communications; Law enforcement; 14990. SP305-7.

Repetition rate dependence; Surface damage; 1.06  $\mu$ m; 0.694  $\mu$ m; Ag<sub>3</sub>As<sub>2</sub>S<sub>3</sub>; Proustite; Pulse duration dependence; SP387, pp. 239-249. SP305-5.

Repetitive optical scanning; Aluminum; Flame emission spectrometry; Interferences; 14901. SP305-7.

Repetitive wavelength scanning; Wavelength modulation; Graphite furnace atomic emission spectrometry; 15954. SP305-8.

Repetitively pulsed lasers; Average power; Energy per pulse; Laser; Peak power; TN398. SP305-3.

Replacement; Specifications; Standards; Engine pump; Fire vehicle; Ladder truck; Maintenance; TN891. SP305-8.

Replicate; Spark; Spectrometry; Accuracy; Circumvention; Emulsions; Homogeneity; Ions; Mass; Platinum; Precision; 11847. SP305-3.

Replicates; Sediments; Standard; Trace elements; Accuracy; Atomic Absorption Spectrometry; Caribbean; Precision; Puerto Rico; SP422, pp. 1089-1102 (Aug. 1976). SP305-8.

Report form; Temperature; Temperature compensator; T Vapor meter; Volume; Bell prover; Calibration; Inspection; Liquefied petroleum gas; Pressure; H117. SP305-7.

Report generator; Searching program; Alphanumeric data file; Data retrieval; Editing program; File editor; FORTRAN program; General-purpose modular programming; Reformatting program; TN700. SP305-4.

Report generator; Unpacking program; File editor; Fixed-file editor; Fortran program; Insert program; Packing program; Reformatting; TN444. SP305-1.

Reports; Weights; Index; Measures; National Conference; SP377. SP305-5.

Representation and codes; Standards; Statistical data; A standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; FIPS PUB 6-2. SP305-5.

Representation theory; Coherent states; Density operator; Distribution theory; Electromagnetic field; Photon statistics representation; Pure states; Quantum optics; 10860. SP305-1.

Representation-mixing; Sum-rules; Vector current; Axial-vector current; Chiral; G; G\*; 9353. SP305.

Representations; Algebraic numbers; Groups; Matrices; AMS SP305-1.

Representations; Free products; Groups; 9348. SP305.

Representations; Screens; Structures; Topological combinatorics; Chemistry; Compounds; Computer; File organization; HAYSTAC; Hayward; Information retrieval; Linear notation; Markush; Mixtures; Reactions; 10363. SP305-1.

Representations and codes; SMSA; Standard Metropolitan statistical area; Data standard; FIPS PUB 8. SP305-1.

Representations and codes; Standard Metropolitan Statistical Areas; Computers; Data processing; Federal Information Processing Standards Publication; FIPS PUB 8-3. SP305-5.

Representations and codes; Standard Metropolitan Statistical Areas; Computers; Data processing; Federal Information Processing Standards Publication; FIPS PUB 8-2. SP305-4.

Representations and codes; Standard Metropolitan Statistical Areas; Computers; Data processing; Federal Information Processing Standards Publication; National government; FIPS PUB 8-1. SP305-3.

Representations and codes; Standard Metropolitan Statistical Areas; Computers; Data processing; Federal Information Processing Standards Publication; FIPS PUB 8-4. SP305-6.

Representations and codes; Standards; Statistical data; A standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; FIPS PUB 10-1. SP305-6.

Representations and codes; Standards; Statistical data; A standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; FIPS PUB 6-1. SP305-2.

Representations and codes; Standards; States; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; National government; FIPS PUB 5-1. SP305-2.

Representations and codes; Standards; States; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; FIPS PUB. 10. SP305-2.

Reprint collection; History; Photonic nuclear experiments; Photonic nuclear interaction; Photonic nuclear reaction; Photonic nuclear theory; 16270. SP305-8.



prints; Resistance thermometry; Spectroscopic thermometry; Standards; Temperature scales; Thermoelectric thermometry; Acoustical thermometry; Cerous magnesium nitrate thermometer; Error analysis; Liquid-in-glass thermometry; *SP300, Volume 2, SP305-1.*

reproducibility; Accuracy; Acoustics; Noise; Precision; Repeatability; *14866, SP305-7.*

reproducibility; Safety; Accuracy; Conservation; Measurements; Nondestructive evaluation; Productivity; Reliability; *16301, SP305-8.*

reproducibility; Sensitivity loss; Supralinearity; Dosimetry; Fading; Furnace annealing; Glow curve; Maximum heating temperature; Peak height; *15193, SP305-7.*

reproducibility; Standards; Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; Foil paper; Instrument characteristics; Materials testing; Measuring instruments; Mechanical properties; *11706, SP305-2.*

reproducibility; Superconductivity; Thermometric fixed point; Transition temperature; Transition widths; Cryogenics; Pure cadmium; *13810, SP305-6.*

reproducibility; Superconductivity; Thermometric fixed point; Transition temperature; Transition widths; Cryogenics; Pure cadmium; *14530, SP305-6.*

reproducibility; Superconductors; Thermometry; Transition widths; Wire samples; Elements; Fixed points; *12511, SP305-4.*

reproducibility; Test methods; Transformations; Weighting; Interlaboratory comparisons; Invariance; Models; Precision; Precision of measurement; Repeatability; *15909, SP305-8.*

reproducibility; Test methods; evaluation of; Interlaboratory testing; Precision; Repeatability; *12333, SP305-3.*

reproducibility of germanium resistors; Thermal cycling at low temperature; Thermometry; Germanium resistors; Germanium resistor reproducibility; Low temperature thermometry; *170C4-235, 245-254 (1966), SP305.*

reprography developments; Bibliographic data files; Communications technology developments; Computer developments; COM systems extension; Copyright protection; Facsimile transmission extension; Photocopying; *16040, SP305-8.*

repulsive core;  $^3\text{He}$ ;  $^3\text{H}$ ; Charge; Form factor; Magnetic; Neutron potentials; *12056, SP305-3.*

repulsive curve; Triplet state; Electron impact; Energy loss; Energy surface; Excitation energy;  $\text{H}_2\text{O}$ ; *14219, SP305-6.*

required conditions; Users' activities; Users' characteristics; Organization of performance factors; Performance requirements; *SP361, Vol. 1, pp. 23-30, SP305-4.*

requirements; Technology; Weights and measures; Administration; Conference; Laws; Procedures; Regulations; *SP379, SP305-5.*

requirements; Variables; Workload; Computer system; Factors; Measurement; Parameters; Performance; Performance terminology; Predictability; *SP406, pp. 53-60, SP305-7.*

requirements definition; Security; Systems design; Computer; Data processing; Index; Information processing; Privacy; *NBSIR 75-909, SP305-7.*

IR; TOT; TRIB; Digital data communication; Digital system performance; Draft standard ANSI X3; *12466, SP305-4.*

scattering effects; Separable potentials; Three-body problem;  $^4\text{He}$ ; Pole dominance; Quasifree scattering; *13126, SP305-5.*

search; Amalgam; Dental; *9495, SP305.*

search; Chemical properties; Composition; Gases; Glasses; Liquids; Multiphase materials; Physical properties; Polycrystals; Preparation; *SP333, SP305-2.*

search; Reinforced masonry; Structural engineering; Walls; Bricks; Building codes; Buildings; Concrete blocks; Masonry; *14107, SP305-6.*

search; Residential structures; Safety; Structural masonry; Brickwork; Experimental; Lateral loading; Performance; *SP361, Vol. 1, pp. 567-576, SP305-4.*

Research; Sampling plans; Standards; Test development; Upholstered furniture; Annual report to Congress; Blankets; Children's sleepwear; Flammability; Flammability reduction; Mattresses; *TN749, SP305-4.*

Research; Science; Standards; Technology; Annual report; Computer; Energy; Environment; Measurement; Product safety; *SP437, SP305-7.*

Research; Science and technology; Standards; Annual report; Computer; Energy; Environment; Health; Product safety; *SP418, SP305-7.*

Research; Small carpets and rugs; Standards; Test development; Annual report to Congress; Blankets; Carpets and rugs; Children's sleepwear; Cooperation; Flammability; Flammability reduction; Mattresses; *TN596, SP305-3.*

Research; Speaker identification; Speech recognition; Standardized fonts; U.S.S.R.; Western Europe; Optical character; Pattern recognition; Recognition; *11142, SP305-2.*

Research; Survey; Technology; Cryogenic; Gas industry; Liquefied natural gas; *15468, SP305-7.*

Research; Utilities; Biology; Career; Ecological; Electricity; Energy; Environment; Fusion; Medicine; Nuclear; Power; Radiation; Reactor; *TN888, SP305-7.*

Research accidents; Safety; Accidents; Buildings; Construction; Maintenance; *16315, SP305-8.*

Research administration; Software exchange; Software summary; Software survey; Space management software; University systems; Directory; Equipment management software; Fiscal administration software; Grant/contract software; Personnel management software; *TN916, SP305-8.*

Research and development; Accounting; Computer performance evaluation; Efficiency; Measurement; *SP406, pp. 155-157, SP305-7.*

Research and development; Cryogenic; Energy; Hydrogen; *14936, SP305-7.*

Research assistants; Test device evaluation; Criteria; Decision making; Human systems; Measuring instruments; *16091, SP305-8.*

Research associate program; Sampling test; Drop ball test; Impact resistance; Ophthalmic lens; Proof testing; *NBSIR 76-996, SP305-8.*

Research associate program; School systems; Smoke detectors; Teaching metric; Cryogenic fluid; Door locks; Energy; EPIC supplement; High winds; Home security; Nondestructive evaluation; *DIM/NBS 60, No. 4, 1-24 (1976), SP305-8.*

Research Associate Program; Simultaneous determination of oxygen and nitrogen; Standard Reference Material for oxygen; Inert gas fusion; One ppm of oxygen and nitrogen in steel; *SP260-26, SP305-3.*

Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; *SP315-1, SP305-1.*

Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; *SP315-2, SP305-1.*

Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; *SP315-3, SP305-1.*

Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; *SP315-4, SP305-2.*

Research at high temperatures; Thermophysical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; *SP315-5, SP305-2.*

Research at NBS; Optics; *16658, SP305-8.*

- Research authorized; Flammable fabrics; Flammable Fabrics Act of 1953; Flammable fabrics program 1968-1969; Reducing flammability; *TN525*. **SP305-2.**
- Research centers; Associations; Criminal justice; Directory, law enforcement; *TN752*. **SP305-5.**
- Research communication; AIA/NBS Architect-in-Residence; Architectural research; Daylight research; National Bureau of Standards; Programs for architects; *15606*. **SP305-7.**
- Research computing; Academic computing; Networks; Network management; Regional networks; *TN795*. **SP305-5.**
- Research consortia; Cotton polyester blends; ETIP; Flame retardants; Flammability; R&D contracting; Radiation grafting; *NBS-GCR-ETIP 75-01*. **SP305-8.**
- Research director; Technological entrepreneur; Corporation; Employed inventor; Innovation; Invention; *SP388*, pp. 145-149. **SP305-6.**
- Research facilities; Testing machines; Engineering Mechanics Section; Force generating equipment; *SP370*. **SP305-5.**
- Research facility; Simulation techniques; Space research; Convective processes; Mars atmosphere exploration; Planetary atmosphere-surface interaction; Planetary meteorology; *SP336*, pp. 699-723. **SP305-3.**
- Research grants; Fire programs; Fire research; National Science Foundation; RANN; *SP411*, pp. 230-238. **SP305-6.**
- Research information exchange; Role of NBS motor vehicle safety; Tire system research; Braking system; Occupant restraint system research; *9604*. **SP305-1.**
- Research management principles embodied in government-university collaboration in the Joint Institute for Laboratory Astrophysics; *11940*. **SP305-3.**
- Research materials; Standard Reference Materials; Analysis; Characterization, composition; General Materials; Properties; *SP260*, 1973 Edition. **SP305-5.**
- Research materials; Standard reference materials; SRM's; Standard Reference Materials Program; Agriculture; Air and water pollution; Biology; Botany; Health and medicine; Instrument calibration; Metrology; *12349*. **SP305-3.**
- Research Materials; Standard Reference Materials; Analysis; Characterization; Composition; General Materials; Properties; *SP260*, 1975-76 Edition. **SP305-7.**
- Research planning; Scientific research abstracts; Special Foreign Currency Program; Yugoslavia science and technology; Binational research cooperation; International scientific cooperation; Physical science research administration; *TN753*. **SP305-5.**
- Research planning; Scientific research abstracts; Special Foreign Currency; Binational research cooperation; International scientific cooperation; India science and technology; Physical science research administration; *TN798*. **SP305-5.**
- Research planning; Scientific research abstracts; Binational research cooperation; International scientific cooperation; Israel science and technology; Physical science research administration; PL-480 programs; *TN721*. **SP305-4.**
- Research priorities; Weights and measures; Benefit-cost; History; Peirce; Philosophy; Pragmatism; *10203*. **SP305-1.**
- Research program; Fire; *11438*. **SP305-2.**
- Research programs; Sponsorship; Wind engineering; *SP444*, pp. V-80—V-82 (Apr. 1976). **SP305-8.**
- Research programs; Survey; Data; Experimental facilities; History; Photonic nuclear reactions; *13722*. **SP305-5.**
- Research quantities; Distillation; Material; Purification of research quantities of materials; *9884*. **SP305-1.**
- Research reactor; Split core; Cold neutron source; High flux; Irradiation; Neutron diffraction; *12351*. **SP305-3.**
- Research Reactor; Thermal neutron; Converter tube; Fast neutron; NSBR; Pile reactivity; Radiation effects; Radioactive; *9866*. **SP305-1.**
- Research, structured planning discourse; User needs, aspirations, values; Arguments; Decision-making; IBIS (Issue Based Information System); Negotiations; *SP361*, Vol. 1, pp. 100. **SP305-4.**
- Research summaries; Fluid mechanics; Hydraulic engineering; Hydraulic research; Hydraulics; Hydrodynamics; Model studies; *SP346*. **SP305-3.**
- Research summaries; Fluid mechanics; Hydraulic engineering; Hydraulic research; Hydraulics; Hydrodynamics; Model studies; *SP382*. **SP305-6.**
- Research summaries; Fluid mechanics; Hydraulic engineering; Hydraulic research; Hydraulics; Hydrodynamics; Model studies; *SP443*. **SP305-8.**
- Research techniques; Corrosion; Electron diffraction; Electron microscopy; *12104*. **SP305-3.**
- Research tool; Time sharing; Undergraduate education; Computer science; Computers; Hood College; *14592*. **SP305-6.**
- Reshoring; Safety; Shoring; Standards; Building; Concrete; Construction; Falsework; Formwork; *Los BSS80*. **SP305-8.**
- Residence time; Rubidium hydrosulfide; Vibration amplitude; Neutron scattering; Orientational disorder; Phase transition; Reorientation; *13930*. **SP305-6.**
- Residence time; Single crystal; Ammonium bromide; Ammonium ion; Neutron scattering; Orientational disorder; Reorientation; *15032*. **SP305-7.**
- Residence time; Single crystal; Vibration amplitudes; Hydrogen diffusion; Hydrogen in tantalum; Interstitial sites; Neutron scattering; Quasielastic scattering; *14368*. **SP305-6.**
- Residence time; Sodium hydrosulfide; Cesium hydrosulfide; Hydrosulfides; Ion reorientation; Libration; Neutron scattering; Phase transition; Quasielastic; *13700*. **SP305-5.**
- Residence times; Activation energy; Ammonium-ion dynamics; Ammonium perchlorate; Jump reorientations; Quasielastic neutron scattering; *15109*. **SP305-7.**
- Residence-related products; Residential safety; Safety implementation approaches; Safety standards; Building codes; Consumer Product Safety Act; Product safety; *NBSIR 75-6*. **SP305-7.**
- Residence-related products; Residential safety modification; Safety implementation approaches; Architectural glass products; Consumer Product Safety Act; *16006*. **SP305-8.**
- Residence-related products; Residential safety modification; Safety implementation approaches; Architectural glass products; Consumer Product Safety Act; *NBSIR 75-7*. **SP305-8.**
- Residential; Consumer information; Consumer products; Energy conservation; Energy efficiency; Energy use; Household appliances; Household equipment; Labeling; *NBSIR 75-6*. **SP305-7.**
- Residential air conditioning; Air-to-air heat pumps; Annual energy cost; Energy usage; *9532*. **SP305-1.**
- Residential buildings; Vehicular impact; Collisions of vehicles with buildings; Multistory buildings; Progressive collapse buildings; *13781*. **SP305-5.**
- Residential dwelling; Building codes; Construction practice; Damage; Earthquake; Houses; *SP444*, pp. V-63—V-65 (A 1976). **SP305-8.**
- Residential energy consumption; Appliance performance; Energy conservation; Energy use; Heating and air conditioning; *14627*. **SP305-6.**
- Residential fires; Smoke detectors; Detector sensitivity; Detector siting; Escape time; Fire tests; Heat detectors; *NBSIR 75-1126*. **SP305-8.**
- Residential fires; Smoke detectors; Tenability levels; Detector sensitivity; Detector siting; Heat detectors; Ionization smoke detectors; Photoelectric smoke detectors; *NBS-GCR-75-5*. **SP305-8.**
- Residential safety; Safety implementation approaches; Safety standards; Building codes; Consumer Product Safety Act; Product safety; Residence-related products; *NBSIR 75-6*. **SP305-7.**

sidential safety modification; Safety implementation approaches; Architectural glass products; Consumer Product Safety Act; Residence-related products; *16006. SP305-8.*

sidential safety modification; Safety implementation approaches; Architectural glass products; Consumer Product Safety Act; Residence-related products; *NBSIR 75-791. SP305-8.*

sidential smoke detector; Semiconductor gas sensor; Sensor contamination; False alarm; Fire detector; Fire test; *NBSIR 74-591. SP305-7.*

sidential sprinkler protection; Sprinkler operation; Automatic sprinklers; Bedroom fires; Droplet size; Heat absorption; Pool fires; *NBS-GCR-76-58. SP305-8.*

sidential structures; Safety; Structural masonry; Brickwork; Experimental; Lateral loading; Performance; Research; *SP361, Vol. 1, pp. 567-576. SP305-4.*

sidential wiring; Aluminum wire; Consumer product safety; Current cycle testing; Electrical connection failure; Electrical receptacles; *NBSIR 75-723. SP305-7.*

sional analysis; Contingency table; Estimation of cell frequencies; Hypothesis testing; Information theory; Interaction; *13431. SP305-5.*

sional (configurational) entropy; Thermodynamic properties; Annealed glass; Crystal; Diethyl phthalate; Glass transformation; Heat capacity calorimetry; Molecular configurational state; Normal and supercooled liquid; *J71A4-461, 293-305 (1967). SP305.*

sional entropy; Viscosity; Vitreous state; Calorimetry; Configurational entropy; Glass; Heat capacity;  $\alpha$ -terphenyl; *2520. SP305-4.*

sional entropy; Zero-point entropy;  $CD_4$ ;  $CHD_3$ ;  $CH_3D$ ;  $H_2D_2$ ; Heat capacity; Heat capacity anomaly; *11269. SP305-2.*

sional forces; Separable forces; Effective forces; Nuclear forces; Nuclear shell model; *11120. SP305-2.*

sional gas analysis; Test facility; Vacuum; Chemical analysis; Contamination; Organic residues; Outgassing; Polymeric materials; *SP336, pp. 1-24. SP305-3.*

sional gas analysis computer simulation; Residual gas analysis data reduction; Space vacuum system gas; Mass spectrometry; *SP336, pp. 151-164. SP305-3.*

sional gas analysis data reduction; Space vacuum system gas; Mass spectrometry; Residual gas analysis computer simulation; *SP336, pp. 151-164. SP305-3.*

sional strain; Acoustic emission; Macrocracking; Porcelain insulators; Proof testing; *16069. SP305-8.*

sional stress; Ceramics; Cracks; Dislocations; Electrical properties; Electro-optical; Ferrite; Machining; Magnetic properties; Mechanical properties; Optical properties; *SP348, pp. 13-352. SP305-4.*

sional stress; Dislocation theory; Imperfect continua; Internal stress; Nondestructive evaluation; *16411. SP305-8.*

sional stress; Rule of mixtures; Sandwich specimen; Stress-strain curves; Tensile properties; Aluminum alloy; Iron/epoxy; Co-cure; Composite materials; Fabrication process; Load-deformation characteristics; *TN812. SP305-6.*

sional stress; Service failures; Stress concentration; Surface hardening; Crack initiation; Fatigue; *10507. SP305-1.*

sional stress; Stress analysis; Brittle solids; Chipping; Fracture; Indentation; *16306. SP305-8.*

sional stress; Stress analysis; Wear rate; Abrasion; Brittle solids; Brittle surfaces; Chipping; Fracture; Hardness; Indentation; *NBSIR 75-659. SP305-7.*

sional stress; Thermoplastic piping; ABS; Coefficient of expansion; CPVC; Glass transition temperature; Hardness; PB; Polybutene; Polyvinyl chloride; PVC; *NBSIR 74-629. SP305-*

sional stress; Titanium bearing steels; Chromium diffusion coating; Columnar grains; Fatigue crack initiation; Fatigue crack propagation; *12087. SP305-3.*

Residual stresses; Stock removal; Surface analysis; Theory of grinding; Abrasive; Ceramics; Diamond; Fracture; Grinding; Grinding forces; Grinding temperatures; Machining; Polishing; *SP348, pp. 5-35. SP305-4.*

Residual thiosulfate; Archival record film; Hypo testing; Microfilm; *12751. SP305-4.*

Residuals; Statistics; Uncertainties; Crystallographic data; Errors; Probability plots; *NBSIR 76-1102. SP305-8.*

Residuals; Two-way table; Vacuum cleaner; Analysis of variance; Covariance matrix; Eigenvalues; Interaction; Matrix; *J74B No. 3, 149-154 (1970). SP305-2.*

Residues, dissipation of; Residues, in potatoes; Residues, metabolic; Residues, total; Residues, volatilization; Storage effects; 2,4-dichlorophenol; 2,4-dichlorophenoxyacetic acid; Gas chromatography; Potatoes; *SP422, pp. 737-745 (Aug. 1976). SP305-8.*

Residues, in potatoes; Residues, metabolic; Residues, total; Residues, volatilization; Storage effects; 2,4-dichlorophenol; 2,4-dichlorophenoxyacetic acid; Gas chromatography; Potatoes; Residues, dissipation of; *SP422, pp. 737-745 (Aug. 1976). SP305-8.*

Residues, metabolic; Residues, total; Residues, volatilization; Storage effects; 2,4-dichlorophenol; 2,4-dichlorophenoxyacetic acid; Gas chromatography; Potatoes; Residues, dissipation of; Residues, in potatoes; *SP422, pp. 737-745 (Aug. 1976). SP305-8.*

Residues, total; Residues, volatilization; Storage effects; 2,4-dichlorophenol; 2,4-dichlorophenoxyacetic acid; Gas chromatography; Potatoes; Residues, dissipation of; Residues, metabolic; *SP422, pp. 737-745 (Aug. 1976). SP305-8.*

Residues, volatilization; Storage effects; 2,4-dichlorophenol; 2,4-dichlorophenoxyacetic acid; Gas chromatography; Potatoes; Residues, dissipation of; Residues, in potatoes; Residues, metabolic; *SP422, pp. 737-745 (Aug. 1976). SP305-8.*

Resilience; Dynamic properties; Low temperatures; Polymers; *11435. SP305-2.*

Resilience; Slip resistance; Static charge; Test methods; Water resistance; Wear; Carpets; Cleanability; Conducting; Durability; Flooring; Identification; *SP361, Vol. 1, pp. 799-806. SP305-4.*

Resilience; Thermal properties; Adhesive; Low temperature; Mechanical properties; Polymer; Polyurethane; *11515. SP305-2.*

Resilient flooring; Slipperiness standards; Frictional tests; Slip tests; Coefficient of friction; Human perambulation; Floor slipperiness; *NBSIR 74-613. SP305-7.*

Resilient liners; Temporary expedients; Tissue bearing; Denture base; Protective; *12250. SP305-3.*

Resilient reliners; Retention; Silicone rubber; Stability; Candida albicans; Dentures; Dimensional changes in dentures; Oral tissues; *10499. SP305-1.*

Resilient types; Test methods; Textile types; Vehicle movement; Carpet; Floor coverings; Foot comfort; Performance requirements; *11792. SP305-2.*

Resin; Restorative; Adhesive; Bonding; Dental material bonding; *10205. SP305-1.*

Resin; Silane; Tantalum; Zirconium; Aluminum; Composites; Coupling agents gold; Mercaptan; Methacrylates; Polymers; *13620. SP305-5.*

Resin; Silane; Teeth; Bonding; Coupling agent; Denture; Plastic; Porcelain adhesion; *9494. SP305.*

Resin; Wear; Adhesion; Adsorption; Alloys; Composites; Dental; Grafting; Investments; Polymer; *NBSIR 76-1095. SP305-8.*

Resin binders; Adhesion; Composites; Dimensional stability test; Fillers; Performance; *SP361, Vol. 1, pp. 741-750. SP305-4.*

- Resin sintered coatings; TFE-fluorocarbon; Coatings, dry film; Dry film lubrication; Polytetrafluoroethylene; C5274-66. SP305.
- Resin skived tape; Skived tape; TFE-fluorocarbon; Electrical tape, plastic; Plastic tape; Polytetrafluoroethylene; P53-66. SP305.
- Resin structure; Ultra-pure reagents; Urea; Uric acid; Analytical distillation; Clinical standards; Crystallization; Divinylbenzene; EDTA; Ion exchange resins; Microstandards; Particulate matter; Reagents; TN459. SP305-1.
- Resins; Restorative; Adhesive; Cements; Composites; Cyanoacrylates; Dental; Methacrylate; Polyacrylate; Polyurethanes; 12805. SP305-4.
- Resins; Restorative material; Biomaterials; Composites; Dentistry; Fillers; Glass; Methacrylates; Monomers; Prostheses; SP354, pp. 93-100. SP305-4.
- Resins; Restorative materials; Sealants; Wear resistance; Adhesive materials; Composites; Dental materials; Polymer grafting; NBSIR 75-766. SP305-7.
- Resins; Selection; Substrates; Surface preparation; Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant; Lacquer; Latex; Multicolor; Organic coatings; Paint; Pigments; B557. SP305-1.
- Resins; Silica; X-ray opacity; Barium glass; Dental composites; Dental reinforcements; Physical properties; 13674. SP305-5.
- Resins; Styrene-butadiene; Surface fillers; Vinyl toluene-acrylate; Vinyl toluene-butadiene; Absorbance ratio method; Infrared spectroscopy; 12417. SP305-4.
- Resins; Synthesis; Accelerators; Amines; Color-stable composites; Methacrylates; Polymerization; 12302. SP305-3.
- Resins; Synthesis; Composites, dimethacrylates; Monomers; 15159. SP305-7.
- Resins for composites; Ternary eutectic; Thermosetting monomers; Biomaterials; Dimethacrylates; Phthalate monomers; Purification methods; 11802. SP305-3.
- Resistance; Aluminum; Electron scattering; Magnetoresistance; 12278. SP305-3.
- Resistance; Dielectric resistance; Resistivity; Dielectric constant; Permittivity; Dissipation factor; Loss index; Dielectric strength; Arc resistance; Tracking; Measurements; Electrical testing; Conductance; Dielectric conductance; Conductivity; 9174. SP305.
- Resistance; Resistance thermometer; Test; Thermometer; Thermometer leads; Thermostated bath; Vacuum; Water tight; Bridge; Deep-sea thermometer; High pressure; Oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure seal; TN894. SP305-8.
- Resistance; Resistivity; Conductance; Conductivity; Dielectric; Measurements; 9198. SP305.
- Resistance; Resistor; Standards; Adapters; Capacitance; Capacitors; Detectors; Generators; Impedance instruments; Impedance standards; Inductance; Inductors; Measurement methods; Reactance; Monogr. 141. SP305-6.
- Resistance; Standards; State of the art; Capacitance; Inductance; Impedance and admittance; Measurement; Radio frequency; 9795. SP305-1.
- Resistance; Temperature coefficient; Alloy; Bronze; Magnetoresistance; 12561. SP305-4.
- Resistance; Transformer-ratio-arm; Audio-frequency; Bridge; Four-terminal resistance; High current; Operational amplifier; Phase angle; 14877. SP305-7.
- Resistance apparatus; Resistors; Standard cells; Voltage transformers; Zener diodes; A-c dc transfer standards; Capacitors; Current transformers; Dielectric measurements; Electrical calibrations; Electrical measurements; Electrical standards; SP300, Volume 3. SP305-1.
- Resistance bridge; Resistance thermometry; Temperature measurement; Automatic phase balance; Bridge; Multistage transformers; Operational amplifiers; J74C Nos. 1 and 2, 14- (1970). SP305-2.
- Resistance decade; Transresistance; URS (universal ratio set); VERI (versatile ratio instrument); DRRS (direct read ratio set); Junction; Precision measurements; Ratio; Resist Four-terminal; J70C3-228, 169-172 (1966). SP305.
- Resistance gage; Ultrasonics; Electrical connection; Feedthrough; High pressure; 9526. SP305.
- Resistance measurements; Thermometry; Two-stage transformers; Ac bridges; Bridges; Platinum thermometers; 1641. SP305-8.
- Resistance mode; Safety; Serviceability; Stability; Structural design mode; Limit states design; Load; Performance criteria; Reinforced concrete; Reliability; 14656. SP305-6.
- Resistance network; Series-parallel; Tetrahedral junction; Four-terminal; Hamon divider; 14190. SP305-6.
- Resistance thermometer; Numerical analysis; Orthogonal functions; 13580. SP305-5.
- Resistance thermometer; Radiation pyrometry; Temperature thermometry; Thermocouples; Thermistors; Mono. 27, Supplement 2. SP305.
- Resistance thermometer; Temperature measurement; Thermistor; Thermocouple; Conduction error; Radiation error; B5526. SP305-2.
- Resistance thermometer; Test; Thermometer; Thermometer leads; Thermostated bath; Vacuum; Water tight; Bridge; Deep-sea thermometer; High pressure; Oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure seal; Pressure vessel; TN894. SP305-8.
- Resistance thermometer; Thin carbon film; Fluid phase discrimination; Hydrogen; Low gravity; 12576. SP305-4.
- Resistance thermometers; Resistor intercomparison; Standalone cell surveillance; Computer automation; SP335, pp. 29-30. SP305-3.
- Resistance thermometers; Temperature measuring instruments; Triple point; Water; 13624. SP305-5.
- Resistance thermometers; Thermocouples; Thermometer; Vapor pressure; Calibration; Cryogenics; Liquid helium; Liquid hydrogen; Liquid neon; Liquid nitrogen; Liquid oxygen; Reference data; 14342. SP305-6.
- Resistance thermometers; Two-way structural analysis; Calibration of thermometers; Low-temperature calibration of thermometers; Platinum resistance thermometers; 15309. SP305-7.
- Resistance thermometry; Spectroscopic thermometry; Standards; Temperature scales; Thermoelectric thermometer; Acoustical thermometry; Cerous magnesium nitrate thermometer; Error analysis; Liquid-in-glass thermometer; Reprints; SP300, Volume 2. SP305-1.
- Resistance thermometry; Temperature; Thin film; Carbon; Cryogenic; Fluid phase; Hydrogen; Low-gravity; 1134. SP305-2.
- Resistance thermometry; Temperature measurement; Automatic phase balance; Bridge; Multistage transformers; Operational amplifiers; Resistance bridge; J74C Nos. 1 and 2, 14- (1970). SP305-2.
- Resistive component; Time-resolved electrical measurement; Voltage; Circuit; Electrical measurements; High-current circuit; High-current discharge; High-voltage circuit; 961. SP305-1.
- Resistive divider; Superconductivity; Current comparator; Low-temperature electrical measurement; Quantum interference device; Ratio transformer; 14937. SP305-7.
- Resistive divider; Voltage ratio; Divider; Measurement system; Ratio; Ratio standard; 12150. SP305-3.
- Resistivity; Conductance; Conductivity; Dielectric; Measurements; Resistance; 9198. SP305.



sivity; Dielectric constant; Permittivity; Dissipation factor; Loss index; Dielectric strength; Arc resistance; Tracking; Measurements; Electrical testing; Conductance; Dielectric conductance; Conductivity; Volume conductivity; Insulation conductance; *9174. SP305*.  
 sivity; Remanance; Susceptibility; Alloy; Copper; Dryogenic; Iron; Oxide; *16632. SP305-8*.  
 sivity; Resistivity inhomogeneities; Second breakdown; Silicon; Carrier lifetime; Germanium; Lithium-drifted gamma-ray detectors; *TN511. SP305-2*.  
 sivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated measurements; Trapping centers; Wire bonds; *TN773. SP305-5*.  
 sivity; Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; *TN788. SP305-5*.  
 sivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Spreading resistance; Thermal resistance; Thermally stimulated properties; *N806. SP305-5*.  
 sivity; Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; *SP400-1. SP305-6*.  
 sivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; *TN754. SP305-5*.  
 sivity; Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; *TN733. SP305-4*.  
 sivity; Ribbon-wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; *TN743. SP305-4*.  
 sivity; Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Shear test; Sheet resistors; Silicon; Silicon on sapphire; Spreading resistance; *SP400-19. SP305-8*.  
 sivity; Scanning acoustic microscope; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Silicon dioxide; Silicon on sapphire; Spreading resistance; Test patterns; *SP400-25. SP305-8*.  
 sivity; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; *SP400-8. SP305*.  
 sivity; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Ultrasonic bonding; *SP400-17. SP305-7*.  
 sivity; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current;

Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; *SP400-12. SP305-7*.  
 Resistivity; Seebeck coefficient; Sodium tungstate; Structure; *SP364, pp. 41-50. SP305-4*.  
 Resistivity; Semiconductor; Spreading resistance; Boundary correction; Calculations; Electrostatic analogue; *SP400-10, pp. 45-50. SP305-6*.  
 Resistivity; Semiconductor characterization; Silicon; Carrier lifetime; Gold-doped silicon; *13419. SP305-5*.  
 Resistivity; Semiconductor characterization; Semiconductor device; Silicon; Square array; Bulk resistivity; Collector resistivity; Four-probe; Planar test structure; *16424. SP305-8*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; *TN717. SP305-4*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; *TN727. SP305-4*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; *TN702. SP305-3*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; *TN702. SP305-3*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; *TN571. SP305-3*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; *TN592. SP305-3*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; *TN598. SP305-3*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal properties; Wire bonds; Carrier lifetime; Electrical properties; Germanium; Methods of measurement; Microelectronics; *TN472. SP305-1*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Germanium; Metallization; *TN475. SP305-1*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; *TN488. SP305-1*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; *TN495. SP305-1*.  
 Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance;

- Thermographic measurements; Ultrasonic microphone; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; *TN520*. **SP305-2.**
- Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; *TN527*. **SP305-2.**
- Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; *TN555*. **SP305-2.**
- Resistivity; Semiconductor dopant concentration; Spreading resistance; Computer modeling; Correction factors; Dopant profiles; Multilayer spreading resistance model; *SP400-10*, pp. 75-94. **SP305-6.**
- Resistivity; Semiconductor electronics; Sheet resistors; Silicon; Test pattern; Test structures; Dopant density; Microelectronics; MOS capacitors; *n-p-n* transistor fabrication; *p-n* junctions; *SP400-22*. **SP305-8.**
- Resistivity; Semiconductor materials; Silicon; Spreading resistance; Automated testing; Epitaxial silicon; Impurity concentration; *SP400-10*, pp. 95-98. **SP305-6.**
- Resistivity; Semiconductor surface preparation; Silicon; Spreading resistance; Dopant concentration; Dopant profiles; Metal-semiconductor contacts; *SP400-10*. **SP305-6.**
- Resistivity; Semiconductors; Silicon; Germanium; Inhomogeneities; Measurement methods; Photovoltaic effect; *14223*. **SP305-6.**
- Resistivity; Semiconductors; Silicon; ASTM Committee F-1; Electronics; Four-probe method; *NBS/R 74-496*. **SP305-6.**
- Resistivity; Silicon; Surface photovoltage; Carrier lifetime; Gallium arsenide; Gold-doped silicon; *14606*. **SP305-6.**
- Resistivity; Silicon; Temperature coefficients; Extrinsic exhaustion region; Germanium; N-type; P-type; *10736*. **SP305-1.**
- Resistivity; Single crystal growth; Color-concentration dependence; Gadolinium monoselenide; Hall effect; Homogeneity range; Magnetic ordering; Reflectivity; *SP364*, pp. 637-644. **SP305-4.**
- Resistivity; Skin effect; Thermal conductivity; Aluminum; Impurity; *10821*. **SP305-1.**
- Resistivity; Spreading resistance; Stress; Zero bias resistance; Correction factor; Crystallographic orientations; Effective contact radius; Interfaces; Metal-semiconductor contacts; Multilayered structure; Piezoresistivity; *SP400-10*, pp. 17-26. **SP305-6.**
- Resistivity; Standard; Thermal conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; Platinum; Reference material; *J71C4-258*, 255-284 (1967). **SP305.**
- Resistivity; Standard; Thermal conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; Platinum; Reference material; *10549*. **SP305-1.**
- Resistivity; Standard; Thermal conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; Platinum; Reference material; *11304*. **SP305-2.**
- Resistivity; Superconducting; Aluminum; Electron scattering; Magnetoresistivity; *12532*. **SP305-4.**
- Resistivity; Surface preparation; Analysis; Device processing; Diffusion; Epitaxy; Junctions; *SP337*. **SP305-3.**
- Resistivity; Temperature; Thermal conductivity; Thermal diffusivity; Thermal resistivity; Thermophysical properties; Conductance; Conductivity; Contact conductance; Contact resistance; Electrical conductivity; Electrical resistivity; Heat transfer; *SP302*. **SP305-1.**
- Resistivity; Thermal conductivity; Armco iron; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Heat transfer; Iron; Lorenz function; *J71C4-259*, 285- (1967). **SP305.**
- Resistivity; Thermal conductivity; Beryllium copper; Conductivity; Copper alloys; Electrical conductivity; Heat conductivity; Lorenz function; *10720*. **SP305-1.**
- Resistivity characterization; Silicon; Spreading resistance; Crystal growth; Czochralski; Fourier transform; Microsegregation; *SP400-10*, pp. 191-199. **SP305-6.**
- Resistivity depth profiling; Resistivity radial profiling; Semiconductors; Spreading resistance measurements; Surface effects; Surface preparation; Bevel polishing; *p-type* silicon; *SP400-10*, pp. 249-256. **SP305-6.**
- Resistivity inhomogeneities; Second breakdown; Silicon; Carrier lifetime; Germanium; Lithium-drifted gamma-ray detector; Resistivity; *TN511*. **SP305-2.**
- Resistivity inhomogeneities; Spreading resistance; Striations; Absolute measurements; Aluminum-silicon contact; Field point probe measurements; Local resolution; *n-type* silicon; *SP400-10*, pp. 109-122. **SP305-6.**
- Resistivity measurement; Silicon doping profiles; Spreading resistance measurement; Surface damage; Beveling; Diameter grinding; Laser bevel angle measurement; Layer thickness determination; Materials; *SP400-10*, pp. 123-136. **SP305-6.**
- Resistivity of silicon; Semiconductor devices; Semiconductor process control; Sheet resistors; Test patterns; Thermally stimulated currents; MOS capacitors; *p-n* junctions; *SP400-10*, pp. 109-122. **SP305-6.**
- Resistivity profiles; Spreading resistance; Thin film correction factors; *SP400-10*, pp. 63-74. **SP305-6.**
- Resistivity profiling; Small spacing; Spreading resistance; Accuracy; Bevelled structures; Correction application; Correction factors; Edge effect; Profiles; *SP400-10*, pp. 51-61. **SP305-6.**
- Resistivity radial profiling; Semiconductors; Spreading resistance measurements; Surface effects; Surface preparation; Bevel polishing; *p-type* silicon; Resistivity depth profiling; *SP400-10*, pp. 249-256. **SP305-6.**
- Resistivity ratio; Super-purity metals; Aluminum; Grain size; Recrystallization; *11349*. **SP305-2.**
- Resistivity ratios; Rubidium; Sodium; Thermoelement potentials; Alkali metals; Alloys; Cesium; Knight shift; Lithium; Potassium; Pressure dependences; Pseudopotential; *SP323*, pp. 657-657. **SP305-4.**
- Resistivity standards; Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; Test patterns; Thermal response; Thermally stimulated capacitance; *SP400-4*. **SP305-6.**
- Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Spreading resistance; Thermal resistance; Thermally stimulated properties; Trapping centers; *TN806*. **SP305-5.**
- Resistivity standards; Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; *SP400-1*. **SP305-6.**
- Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated measurements; Trapping centers; Wire bonds; Base transit time; *TN773*. **SP305-5.**
- Resistivity standards; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Base transit time; *TN788*. **SP305-5.**

Resistor; Four-terminal; Resistance decade; Transresistance; URS (universal ratio set); VERI (versatile ratio instrument); WDRRS (direct reading ratio set); Junction; Precision measurements; Ratio; *J.70C3-228, 169-172 (1966). SP305.*

Resistor; Standards; Adapters; Capacitance; Capacitors; Detectors; Generators; Impedance instruments; Impedance standards; Inductance; Inductors; Measurement methods; Reactance; Resistance; *Monogr. 141. SP305-6.*

Resistor intercomparison; Standard cell surveillance; Computer automation; Resistance thermometers; *SP335, pp. 29-33. SP305-3.*

Resistors; Standard cells; Voltage transformers; Zener diodes; AC dc transfer standards; Capacitors; Current transformers; Dielectric measurements; Electrical calibrations; Electrical measurements; Electrical standards; Electrical units; *SP300, Volume 3. SP305-1.*

Resolution; Resolution specimens; Secondary emission; SEM; Specimen criteria; *12718. SP305-4.*

Resolution; Resolving power; Tri-bar targets; Coherence; Partially coherent imaging; *12320. SP305-3.*

Resolution; Response function; Sodium iodide detector; Detection efficiency; Energy deposition spectrum; Gamma ray spectrum; Monte Carlo calculations; *13043. SP305-4.*

Resolution; Spectrometer design; Background; Current monitoring; Detector ladders; Electron scattering; Experimental techniques; Line-shape fitting; On-line computer systems; Radiative tails; *TNS23. SP305-2.*

Resolution; Spectroscopic slit; Diffraction; Luminosity; Optimal performance; Partial coherence slit illumination; *9941. SP305-1.*

Resolution; Subsumption; Theorem-proving; Unification; Associative processing; First-order predicate calculus; *13760. SP305-5.*

Resolution; Suppression; After-pulse; GaP first dynode; Neutron; Photoelectron; Photomultiplier; *14843. SP305-7.*

Resolution; Time-invariant; Wide-range; Zero-crossing; Discriminator; Picosecond; *10125. SP305-1.*

Resolution charts; Veiling glare; Blooming; Contrast transfer function; Distortion; Flare; Image quality; Light induced background; Limiting resolution; Night vision devices; Optical transfer function; *16599. SP305-8.*

Resolution, optical; Resolving power; Aberration, optical; Lens resolving power; *10122. SP305-1.*

Resolution specimens; Secondary emission; SEM; Specimen criteria; Resolution; *12718. SP305-4.*

Resolution test; Variable contrast resolution; Contrast curves; Low contrast resolution; Night vision; Objective lenses; *4950. SP305-7.*

Resolution test charts; Resolving power; Photographic lenses; *P374. SP305-5.*

Resolution test specimen; SEM; Specimen criteria; Al-W alloy; *3846. SP305-6.*

Resolution-of-forces; Semiconductor devices; Ultrasonic bonding; Wire bond; Bond angle; Bonding; Bond pull test; Bond-bond spacing; Large wire; Loop height; Microelectronics; Nondestructive bond pull test; Position of hook; Pull rate; Pull strength; *SP400-18. SP305-8.*

Resolving power; Aberration, optical; Lens resolving power; Resolution, optical; *10122. SP305-1.*

Resolving power; Chromatic aberration; Critical aperture; Relative contrast; *10121. SP305-1.*

Resolving power; Correlation; Lens design; *9407. SP305.*

Resolving power; Photographic lenses; Resolution test charts; *P374. SP305-5.*

Resolving power; Tri-bar targets; Coherence; Partially coherent imaging; Resolution; *12320. SP305-3.*

Resolving power of the ear; Auditory analysis; Auditory perception; Communication theory; Ear behavior; Hearing; Mechanistic model of hearing; *10221. SP305-1.*

Resonance; Ammonia analogues; Hydrogen; Lithium; Nuclear magnetic resonance; *9763. SP305-1.*

Resonance; Autoionizing series; Calculation; Close coupling; Level width; *9642. SP305-1.*

Resonance; Capacitance; Coaxial; High-Q; Imittance; Inductance; Measurement; Radio frequency; *13097. SP305-5.*

Resonance; Capture; Chromium; Cross section; Evaluation; Neutron; *SP425, pp. 367-370. SP305-7.*

Resonance; Close coupling; Eigenphase; Electron helium scattering; Excitation; Polarization; *11263. SP305-2.*

Resonance; Cross section; Electron; Excitation threshold; Helium; Inelastic scattering; Negative ion; *9630. SP305-1.*

Resonance; Electron excitation; High resolution; Krypton; *13839. SP305-6.*

Resonance; Rotating disks; Singular perturbations; Turning-point; Viscous flow; Weber's equation; Boundary-value problem; Eigenvalues; Parabolic cylinder functions; *16459. SP305-8.*

Resonance; Rutile; Tungsten; Paramagnetic resonance spectrum; *9632. SP305-1.*

Resonance; Scattering; Tissue characterization; Tissue parameters; Tumor detection; Ultrasound; Diagnosis; Doppler effect; Optimization; *SP453, pp. 11-17 (Oct. 1976). SP305-8.*

Resonance; Slowing-down; Stochastic; Transport; Benchmark; Cross section; Eigenvalue; Monte Carlo; Multigroup; Reactor; *SP425, pp. 451-454. SP305-7.*

Resonance; Sodium-22; Thermal; Westcott; Cross section; Neutron; *SP425, pp. 792-794. SP305-7.*

Resonance; Spectra; Atoms; Hydrogen; *13327. SP305-5.*

Resonance; Spectroscopy; Transistor; Zeeman; Current; Modulator; Nuclear; Pulse; Quadrupole; *12350. SP305-3.*

Resonance; Standards; Frequency; *11857. SP305-3.*

Resonance; Strontium titanate; Vacancies; Young's modulus; Internal friction; Lanthanum titanate; Phase change; *9447. SP305.*

Resonance; Thallium; Atomic beam; Frequency shift; Radiation field; *TN346. SP305.*

Resonance; Thermalization; Absorption; Neutron; Reactor; *9746. SP305-1.*

Resonance; Thinning; Unresolved; Cross section; Interpolation; Monte Carlo; Probability; *SP425, pp. 447-450. SP305-7.*

Resonance; Threshold; Close-coupling; Electron excitation; Multi-channel; Polarization; *10737. SP305-1.*

Resonance; Vacuum ultraviolet; Arc; Hydrogen; Negative ion; Plasma; *15652. SP305-7.*

Resonance; Vibration; Accelerometer; Calibration; Pickup; *10414. SP305-1.*

Resonance broadening; Stark broadening; Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; Pressure broadening; *SP366. SP305-4.*

Resonance broadening; Stark broadening; Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; Pressure broadening; *SP366. Supplement 1. SP305-6.*

Resonance broadening; Stark broadening; Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; Pressure broadening; *SP366-2. SP305-7.*

Resonance cross section; Statistical model; Total cross section; Capture cross section; Elastic and inelastic scattering cross sections; Evaluation; Fission product; Optical model; *SP425, pp. 320-323. SP305-7.*

Resonance cross section profiles; Spectroscopy; Vacuum ultraviolet; Xenon; 4d absorption; Atomic structure; Inner shell; *M<sub>WV</sub>, 15054. SP305-7.*

Resonance decay; Resonant structure; Threshold; CO; Electron excitation; Energy loss spectra; *15134. SP305-7.*

Resonance energy; <sup>14</sup>C; Analog states; Electron scattering; Inelastic electron scattering; Particle-hole model; *14729. SP305-7.*

- Resonance fluorescence; Absolute rate constants; Atom-molecule reactions; Chlorine atoms; 13306. SP305-5.
- Resonance fluorescence; Absorption; Analytical methods; Laser-excited fluorescence; Matrix-isolation; Molecular emission spectra; 12680. SP305-4.
- Resonance fluorescence; Molecular fluorescence; Molecular spectroscopy; Na<sub>2</sub>; 11533. SP305-2.
- Resonance fluorescence; Ethyl radicals; Ethylene; Hydrogen atoms; Kinetics; 13288. SP305-5.
- Resonance fluorescence; Ethylene; Flash photolysis; Kinetics; Oxygen atoms; 13244. SP305-5.
- Resonance fluorescence; Flash photolysis; H atoms; Reaction kinetics; 13133. SP305-5.
- Resonance fluorescence; Hydrogen atoms; Propylene; Reaction rate; 12820. SP305-4.
- Resonance fluorescence; Sodium; Atomic collisions; Atomic orientation; Collisional disorientation; Optical pumping; 11252. SP305-2.
- Resonance fluorescence; Sodium trace detection; Dye laser use for resonance fluorescence; Furnace atmosphere sodium contamination; Furnace qualification; 16574. SP305-8.
- Resonance fluorescence; Stratosphere; Chlorine atoms; Kinetics; Ozone; 15949. SP305-8.
- Resonance fluorescence; Vacuum-uv; Activation energy; H atoms; H<sub>2</sub>S; Rate constant; 12074. SP305-3.
- Resonance fluorescence; Vibrational relaxation; Apparatus; Energy transfer; Metals; Method; Photochemistry; 13900. SP305-6.
- Resonance fluorescence spectra; Sonic flow; Heat pipe oven; 13865. SP305-6.
- Resonance frequency; Shear modulus; Standard reference material; Young's modulus; Alumina; Elastic modulus; J.77A No. 4, 391-394 (1973). SP305-5.
- Resonance frequency; Shear modulus; Standard reference material; Young's modulus; Alumina; Elastic modulus; J.75A No. 3, 155-162 (1971). SP305-3.
- Resonance integral; Resonance parameters; Thermal cross section; Nickel-59; SP425, pp. 776-779. SP305-7.
- Resonance lamp; Vacuum ultraviolet; Window seal; Electric discharge; 9279. SP305.
- Resonance lamps; Saturation ion current; Aluminum window; Extinction coefficients; Ionization quantum yield; Photochemistry; Photoionization; Rare gases; TN496. SP305-1.
- Resonance levels; <sup>238</sup>U;  $\Gamma_a$ ;  $\Gamma_b$ ; Collective motion; Correlations; Level densities; SP425, pp. 742-743. SP305-7.
- Resonance line; Rubidium oscillator; Solenoid; Absorption cell; Earth's magnetic field; Helmholtz coil; Magnetometer; Optical pumping; 12396. SP305-4.
- Resonance line shape; Cavity phase shift; Cesium beam tube; Frequency accuracy; Frequency standard; Power shift; TN612. SP305-4.
- Resonance line shape; Cavity phase shift; Cesium beam tube; Frequency accuracy; Frequency modulation; Frequency standard; Power shift; 12365. SP305-3.
- Resonance line shape; Saturated absorption; Laser spectrometer; Pressure broadening; 14067. SP305-6.
- Resonance line shapes; Cyclotron resonance line shapes; Ionized gases; Line shapes; 10212. SP305-1.
- Resonance lines; Absorption coefficient; Argon; Broadening; Cesium; 13264. SP305-5.
- Resonance lines; Atomic cross sections; Atomic data; Atomic physics; Rate coefficients; 14590. SP305-6.
- Resonance lines; Ca II; Electron impact; Excitation cross sections; Polarization; 13834. SP305-6.
- Resonance lines; Solar UV lines; Non-LTE line formation; SP332, pp. 65-84. SP305-2.
- Resonance lines; Yttrium; Atomic spectroscopy; Energy levels; 11557. SP305-2.
- Resonance lines, Ca II; Solar chromosphere, physical properties; Solar chromosphere, structure; Spectral line formation; Spectroscopic diagnostics; Non-LTE radiative transfer; 12247. SP305-3.
- Resonance lines, Ca II; Solar chromosphere, physical properties; Spectral line formation; Spectroscopic diagnostics; Non-LTE radiative transfer; 12248. SP305-3.
- Resonance method; Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Copper; Copper alloys; Elastic constants; Poisson ratio; Pulse-echo method; 16505. SP305-8.
- Resonance parameters; Thermal cross section; Nickel-59; Resonance integral; SP425, pp. 776-779. SP305-7.
- Resonance parameters; Total cross section; <sup>241</sup>Am; Neutron; SP425, pp. 637-641. SP305-7.
- Resonance parameters  $\Gamma_a$  up to 5 keV; Three thick targets; Transmission measurements; 190-m flight path; Background; JAERI line; Natural U; SP425, pp. 738-741. SP305-7.
- Resonance photoproduction; Exchange currents; Magnetic moment anomaly; Nuclear magnetic moments; Nuclear structure baryon resonances; 10820. SP305-1.
- Resonance profile; Autoionization; Cross section; Fano parameters; Helium; Photoionization; 13479. SP305-5.
- Resonance profiles; Synchrotron light source; 20-180 eV; Autoionization; Far ultraviolet absorption spectra; He through Xe; One and two electron excitation; 9915. SP305-1.
- Resonance profiles; Uv absorption spectroscopy; Autoionization; Configuration interaction; Inner shell excitation; Photoionization cross section; 13741. SP305-5.
- Resonance radiation; Collisional depolarization; L degeneracy; Redistribution functions; 13499. SP305-5.
- Resonance radiation; Irreducible tensor formalism; Magnetic fields; 13500. SP305-5.
- Resonance radiation; Semi-Auger process; SF<sub>6</sub>; X-ray absorption of sulphur K, L and fluorine K; X-ray emission of sulphur K $\alpha$ , K $\beta$ , L and fluorine K $\alpha$ ; Molecular orbital method; 13101. SP305-5.
- Resonance radiation; Silver; Transition probability; Ag I value; Imprisonment; Lifetime; Mean life; 15120. SP305-7.
- Resonance radiation; Transition probability; U I; Uranium; Delayed coincidence;  $f$  value; Imprisonment; Lifetime; Mean life; 15058. SP305-7.
- Resonance radiation; Transition probability; U I; Uranium; Atomic beam; Delayed coincidence; Imprisonment; Lifetime; Mean life; 16322. SP305-8.
- Resonance radiation; X-ray emission; Electron bombardment; Lead myristate analyzing crystal; M. O. correlation; Nitrogen K emission spectrum; 12738. SP305-4.
- Resonance radiation; Yb<sub>2</sub>O<sub>3</sub>; Gd<sub>2</sub>O<sub>3</sub>; Fluorescence spectra; Emission spectra; 14239. SP305-6.
- Resonance scattering; Scattering theory; Unimolecular kinetics; Absolute rate theory; Association; Configuration interaction; Optical potential; Predissociation; Quantum mechanics; 11401. SP305-2.
- Resonance scattering; Scattering theory; Unimolecular kinetics; Absolute Rate Theory; Association; Configuration interaction; Quantum mechanics; Recombination decomposition; 11512. SP305-2.
- Resonance scattering; Theoretical; Unimolecular dissociation; Activated complex; Activated molecules; Activated state; Decay; Dissociation; High pressure rate constant; Kinetics; Lifetime; Mass spectra; Metastable molecules; Predissociation; 9366. SP305.
- Resonance spectra; Aqueous solutions; Electron spin resonance; Hydroxyl radicals; Kinetics; 10072. SP305-1.
- Resonance spectrum; Rotational frequency; Laser line; L<sub>1</sub> magnetic resonance spectrum; Magnetic resonance spectra; 15988. SP305-8.



resonance state; Charge transfer; Energy surface; Energy transfer; Hartree-Fock;  $H_2(X^1\Sigma^+)$ ;  $Li(2P)$ ;  $Li(2S)$ ; *J.72A No.6, 553-557 (1968). SP305-1.*  
 resonance time; Tantalum hydrides; Vibrational amplitude; Activation energy; Hydrogen diffusion; Neutron scattering; Quasielastic scattering; *15264. SP305-7.*  
 resonance trapping; Lifetime measurement; Low pressure; *15885. SP305-8.*  
 resonance tunneling; Strontium; Tungsten; Adsorption; Energy distribution; Field emission; Fowler-Nordheim curves; *10879. SP305-2.*  
 resonance weak coupling;  $^{12}C$ ,  $^{13}C$ ; Continuum spectra; Efficiencies; Fine structure; Giant resonance; Isospin splitting; Pygmy; Pygmy resonance; Radiative tails; *12929. SP305-4.*  
 resonance width; Shape resonance; Spectroscopic constant; valence orbital; Electron scatter; Energy curve; Local potential;  $N_2$ ; *11899. SP305-3.*  
 resonance-fluorescence; Sulfur atoms; Chemistry; Ethylene; Flash-photolysis; Kinetics; *13901. SP305-6.*  
 resonance-levels; Afterheat; Blanket; Cross-section; Experiment; Fusion; Radioactivity; *SP425, pp. 708-711. SP305-7.*  
 resonance-photoelasticity; Stress-birefringence; Absorption edge; Birefringence; Dispersion of piezobirefringence; Gallium arsenide; Nonlinear piezobirefringence; Photo-elasticity; Piezobirefringence; Piezooptical coefficients; *10941. SP305-*  
*resonances; Resonant scattering; Autoionization; Configuration interaction; Electron scattering; Photoionization; Overlapping resonances; 11226. SP305-2.*  
*resonances; Rotations;  $SU(6) \times O(3)$ ; Baryons; Configuration mixing; Hyperons; 11912. SP305-3.*  
*resonances; Scattering; Angular difference; He, He<sup>+</sup>; Inelastic scattering; 9404. SP305.*  
*resonances; Secular determinants; Spectra; Structure; Arsenic; Infrared high resolution; Perturbation-allowed transitions; 4953. SP305-7.*  
*resonances; Slowing down; Doppler broadening; Neutron; 0481. SP305-1.*  
*resonances; Spectroscopy;  $SU(3)$ ;  $SU(6)_M$ ;  $A_2$ ; Mesons; 12009. SP305-3.*  
*resonances; Spectrum; Absorption; Heat pipe; K-edge; Lithium; 13757. SP305-5.*  
*resonances; Spurious; Symmetry breaking;  $U(12)$  theory; baryon; Branching ratio; Decay; Decay width; Meson; 9166. P305.*  
*resonances; Stellar; Binary; Gravity modes; Nonadiabatic; Oscillations; 15282. SP305-7.*  
*resonances; Synchrotron light; 20-150 eV; Absorption spectrum; Analysis; Ne I; 9638. SP305-1.*  
*resonances; Temporary negative ions; Atoms; Compound states; Cross-sections; Diatomic molecules; Electron impact; energy levels; NSRDS-NBS 50. SP305-5.*  
*resonances; Threshold; Xenon; Autoionizing states; Electron excitation; Energy loss; 15442. SP305-7.*  
*resonances; Tip rotary inertia; Transmissibility; Vacuum; Air; antiresonances; Cantilever beam; Damping; Mass-loading; 1692. SP305-2.*  
*resonances; Unresolved; Cross sections; ENDF/B; Neutrons; eactors; SP425, pp. 371-379. SP305-7.*  
*resonances; Vibrational excitation; Electron scattering;  $H_2$ ;  $\tau$ ; 9365. SP305.*  
*resonances; Vibrational excitation; Doppler broadening; Electronic excitation; Low energy elastic electron scattering; Low energy inelastic electron scattering; Lyman-Birge-Hopfield bands; Metastable states; Molecular nitrogen; Negative ions; 776. SP305-1.*  
*resonances; Xenon; Autoionization; Far ultraviolet; Krypton; photoionization; J.76A No. 1, 1-12 (1972). SP305-4.*  
*resonances; Xenon; Autoionization; Far ultraviolet; Krypton; photoionization; 12691. SP305-4.*  
 Resonant; Spin exchange; Adiabatic collisions; Charge transfer; Nonresonant; Potential curves; *15875. SP305-8.*  
 Resonant cavity; Rhesus; Suppression; Behavior; Behavioral suppression; Exposure; Microwave radiation; Microwaves; Product safety; Radiation; Radiation effects; *15194. SP305-7.*  
 Resonant cavity; Voltage; Waveform; Waveguide junction; Admittance; Antenna; Attenuator; Bolometer; Calorimetry; Horn; Impedance; Interferometry; Measuring system; Phase; Power; Radiometry; *SP300, Volume 4. SP305-2.*  
 Resonant charge transfer; Atom; Collision;  $Cs_2^+$ ; Ion;  $Li_2^+$ ; Low energy;  $Na_2^+$ ; Pseudopotential;  $Rb_2^+$ ; *15075. SP305-7.*  
 Resonant detector; Conversion electrons; Iron; Mössbauer spectroscopy; *TN541. SP305-3.*  
 Resonant energies; Sensitized fluorescence; Fluorescence; Quantum efficiencies; *9655. SP305-1.*  
 Resonant modes; Alloys; Bound states; Inelastic neutron scattering; Local modes; *11069. SP305-2.*  
 Resonant plasmon-photon interaction; Solid state plasma; Electron avalanche; Electron tunneling in alternating fields; Laser damage of GaAs; Laser damage processes; Laser-induced surface damage; Parametric plasma instability; *SP387, pp. 217-224. SP305-5.*  
 Resonant scatterer; Monoenergetic neutrons; Neutron beams; Neutron filters; Neutrons; Reactors; *SP456, pp. 83-85 (Nov. 1976). SP305-8.*  
 Resonant scattering; Autoionization; Configuration interaction; Electron scattering; Photoionization; Overlapping resonances; Resonances; *11226. SP305-2.*  
 Resonant structure; Atomic absorption; Close coupling; Configuration; Interaction; *12094. SP305-3.*  
 Resonant structure; Threshold; CO; Electron excitation; Energy loss spectra; Resonance decay; *15134. SP305-7.*  
 Resonant tunnel junction; Junction array; Radiation emission; *13169. SP305-5.*  
 Resonant-energy transfer; Coherence; Decay modes; Impurities; *10865. SP305-2.*  
 Resource allocation; Simulation; Systems analysis; Alexandria; Fire department; Location; Operations research; *TN782. SP305-6.*  
 Resource allocation; Simulator; Strategies; Workload; FORTRAN IV; Operating system; Overhead; *16062. SP305-8.*  
 Resource allocation analysis; Transportation network analysis; Algorithms; Fire station location; Heuristics; Location-allocation models; Location analysis; *TN774. SP305-5.*  
 Resource allocation strategies; Simulator; Computer system; FORTRAN IV; Operating system; *14623. SP305-6.*  
 Resource conservation; Utilities; Utility services; Water reuse; Community services; Cooling; Electric power; Energy conservation; Heating; Incineration; Integrated utility systems; *16153. SP305-8.*  
 Resource locations; Resource utilization; Response system; Simulation; Manning levels; Modeling; Multiserver queuing system; *12949. SP305-4.*  
 Resource management; Salmon fisheries; Salmon fishery modeling; Simulation; State of Washington; Washington State; Washington State Fisheries; Fisheries; Fishery; Fishery modeling; Mathematical modeling; Regulatory analysis; *NBSIR 75-745. SP305-7.*  
 Resource sharing; Bibliography; Computer network; Data communications; *SP384. SP305-5.*  
 Resource sharing; Bibliography; Computer network; Data communications; *SP384. SP305-8.*  
 Resource sharing; Computer network management; Computer networking research; Management evaluation; *15545. SP305-7.*  
 Resource sharing; Computer networking research; Computer network management; Management evaluation; *TN801. SP305-6.*

- Resource sharing; Computer networks; Computer-to-computer transfers; Interactive terminals; Minicomputer-based systems; Network configuration; Remote job entry; *TN804. SP305-6.*
- Resource sharing; Scheduling; Computer networking; Load leveling; *16570. SP305-8.*
- Resource sharing; User services; Computer network; Network access machine; Network measurement machine; Network user; *14274. SP305-6.*
- Resource utilization; Response system; Simulation; Manning levels; Modeling; Multiserver queuing system; Resource locations; *12949. SP305-4.*
- Resource utilization; User competence; End-user satisfaction; Performance evaluation; Performance factors; *SP406, pp. 39-42. SP305-7.*
- Resources; Appraisal; Building performance; Constraints; Environmental system; Evaluation; *SP361, Vol. 1, pp. 227-235. SP305-4.*
- Resources; Risk; Costs; Energy; Financial; *SP403, pp. 237-241 (June 1976). SP305-8.*
- Resources; Security; Shoplifting; Theft; Burglary; Consultants; Crimes of opportunity; Directory, (security); Investigations; Law enforcement; *16369. SP305-8.*
- Resources; Standards; Steel; Thermal; Thermodynamics; Automobile; Break-even analysis; Conservation; Cooling; Economics; Energy; Environment; Fuel; Heating; Imports; Industry; Management; Manufacturing; Paper; Petroleum; *SP403. SP305-8.*
- Respirable dust sampler; Aerosol size measurements; Beta absorption; Cascade impactor; Coal dust monitor; Dust inhalation hazards; Environmental sampler; *SP412, pp. 127-136. SP305-6.*
- Response; Scintillation detector; Background; Gamma-ray astronomy; Induced radioactivity; Monte Carlo calculation; *16431. SP305-8.*
- Response; Service; Computer; Interactive; Measurement; Procurement; *16247. SP305-8.*
- Response; Sirens; Standards; Action; Communication; Conspiracy; Controlled environment; Effectiveness; Flashing lights; Guidelines; Information; Laboratory testing; People; *13516. SP305-5.*
- Response; Skin effect; Step; Time; Transition; Coaxial; Cylindrical; Error; Line; Loss; *15696. SP305-7.*
- Response; Strain; Cable; Coaxial; Mechanical; *NBSIR 73-418. SP305-6.*
- Response; Temperature; Thermal gradients; Zero shift; Pressure measurement errors; Pressure transducers; *TN490. SP305-1.*
- Response; Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; Photoflash bulb; Pressure; Pressure measurement; Pressure transducer; Pressure transducer response; *NBSIR 76-1038. SP305-8.*
- Response; Thermoluminescence; 15 MeV electrons;  $^{60}\text{Co}$  gamma rays; Absorbed dose;  $\text{CaF}_2$ ; Dy; Dosimeters; LiF; *12833. SP305-4.*
- Response; Yields; Detector; Efficiency; Four-pi; Halpern; Neutron; Photoneutron; *TN416. SP305.*
- Response factor; Algorithm; ASHRAE; Buildings; Computer; Energy calculation; Heat transfer; Heating and cooling loads; *16630. SP305-8.*
- Response factors; Sphere; Transient head conduction; Cylinder; Multilayer structures; *11033. SP305-2.*
- Response function; Semiconductor detectors; Silicon; Monoenergetic electrons; Monte Carlo calculations; *10629. SP305-1.*
- Response function; Sodium iodide; Detector; Electron; Gamma ray; Monte Carlo; *12743. SP305-4.*
- Response function; Sodium iodide detector; Detection efficiency; Energy deposition spectrum; Gamma ray spectrum; Monte Carlo calculations; Resolution; *13043. SP305-4.*
- Response functions; Sodium iodide detector; California; Gamma rays; Neutrons; Radiative capture; *13026. SP305-4.*
- Response functions; Transport coefficients; Isothermal susceptibility; Nonlinear response theory; Nonlinear transport theory; *9987. SP305-1.*
- Response of pneumatic pressure-measurement systems in free molecule, transition, and continuum flow regime; Response of pneumatic pressure-sensing tubulation; Response of pneumatic transmission lines; Time constants of pneumatic pressure lines; *10288. SP305-1.*
- Response of pneumatic pressure-sensing tubulation; Response of pneumatic transmission lines; Time constants of pneumatic pressure lines; Time lag and delay in pneumatic pressure-sensing lines; Time response of pneumatic pressure-sensing systems to step inputs; *10288. SP305-1.*
- Response of pneumatic transmission lines; Time constants of pneumatic pressure lines; Time lag and delay in pneumatic pressure-sensing lines; Time response of pneumatic pressure-sensing systems to step inputs; *10288. SP305-1.*
- Response per unit electron energy absorbed; Sample-thickness dependence; Thermoluminescence; Thin foils;  $^{60}\text{Co}$  gamma radiation;  $\text{CaF}_2$ ; Mn; Electrons, 20 to 400 keV; Energy dependence; Fluence response; *10923. SP305-2.*
- Response surface; Surface fitting; Two-way tables; Curve fitting; Data analysis; Empirical fitting of curves and surface Model, mathematical; *11380. SP305-2.*
- Response system; Simulation; Manning levels; Modeling; Multiserver queuing system; Resource locations; Resource utilization; *12949. SP305-4.*
- Response time; Response time predictions; Computer network; Minicomputers; Network Access Machine; Network service; *16326. SP305-8.*
- Response time; Sensor; Temperature; Thermometer; Time constant; Cryogenic; Instrumentation; Measurement; Metrology; *9944. SP305-1.*
- Response time predictions; Computer networks; Minicomputers; Network Access Machine; Network services; Response time; *16326. SP305-8.*
- Restoration; Restoration of paper; Test methods for paper; Treatment of paper; Paper; Paper test methods; *146. SP305-6.*
- Restoration; Statues; Bronze statuary; Organic coatings; *NBSIR 73-405. SP305-6.*
- Restoration of paper; Test methods for paper; Treatment of paper; Paper; Paper test methods; Restoration; *146. SP305-6.*
- Restorative; Acid etch; Burnishing; Handling techniques; Materials; *14696. SP305-6.*
- Restorative; Adhesive; Bonding; Dental material bonding; Resin; *10205. SP305-1.*
- Restorative; Adhesive; Cements; Composites; Cyanoacrylate; Dental; Methacrylate; Polyacrylate; Polyurethanes; Resins; *12805. SP305-4.*
- Restorative dentistry; Dental amalgam; Dental materials; Gold alloy; Palladium alloy; *11179. SP305-2.*
- Restorative material; Biomaterials; Composites; Dentistry; Resins; Glass; Methacrylates; Monomers; Prostheses; Resins; *SP354, pp. 93-100. SP305-4.*
- Restorative materials; Sealants; Wear resistance; Adhesive materials; Composites; Dental materials; Polymer grafting; Resins; *NBSIR 75-766. SP305-7.*
- Restorative materials; Temporary dental cements; Dental restorative materials; EBA cements; Plastic reinforcement; *11996. SP305-3.*
- Restorative materials; Toxicity tests; Biological evaluation of dental materials; Clinical evaluation of dental materials; Correlation of laboratory and clinical performance; Dental materials; *SP354, pp. 191-200. SP305-4.*
- Restorative resins; Tensile adhesion; Adhesion to bonding enamel; Bonding enamel to restorative resins; Effect of enamel surface treatment; Enamel etch; *12638. SP305-4.*

strained piping; Accesses; Ball joints; Concrete manholes; Expansion joints; Expansion loops; O-ring gaskets; Prefabricated manholes; *B5566*, pp. 60-72. **SP305-7.**

strained sphere; Rotating cylinders; Standard; Standard reference material; Viscosity; Viscosity standard; Beam bending; Fiber elongation; Glass; Glass standard; Glass viscosity; Lead-silica glass; *M260-11*. **SP305.**

straint geometry; Restraint systems; Seat belt; Sled tests; Webbing abrasion; Webbing degradation; Anthropomorphic dummies; Auto seat tests; Deceleration; Human kinematics; Human tests; *11850*. **SP305-3.**

straint systems; Seat belt; Sled tests; Webbing abrasion; Webbing degradation; Anthropomorphic dummies; Auto seat tests; Deceleration; Human kinematics; Human tests; Restraint geometry; *11850*. **SP305-3.**

straints; Automobiles; Dummies; Dynamic; Impact; Performance; *11945*. **SP305-3.**

tricted chains; Theta point; Transition probabilities; Volume exclusion; Linear polymers; Markov chains; Order-disorder transitions; Random variables; *11646*. **SP305-2.**

tricted diffusion; Steric-exclusion chromatography; Chromatography; Diffusion; Gel chromatography; Gel filtration; el-permeation chromatography; Glass chromatography; PC; Pore-controlled glass; *10357*. **SP305-1.**

tricted random walk; Excluded origin; *10032*. **SP305-1.**

tricted randomization; Experimental design; Philosophy of design; Randomization; *11311*. **SP305-5.**

ult computation; Spectral resolution; Activation analysis; Component identification; *12344*. **SP305-3.**

ults; Therapy departments; Thermoluminescence dosimeters; Uncertainty; Water phantom; Absorbed dose; Cobalt-60 gamma radiation; Computation check; Dose interpretation; Failings; *J. Res.* **80A** No. 4, 663-668 (1976). **SP305-8.**

ail industry; Retail merchandising; Voluntary standards; Automated customer identification; Automated merchandise identification; Automatic reading technology; Automation technology for retail industry; Computers; National Retail Merchants Association; *13452*. **SP305-5.**

ail inventory; Statistics; Survey; Lead; Lead paint poisoning; Poisons; Poisoning; *NBSIR 73-407*. **SP305-6.**

ail merchandising; Voluntary standards; Automated customer identification; Automated merchandise identification; Automatic reading technology; Automation technology for retail industry; Computers; National Retail Merchants Association; Retail industry; *13452*. **SP305-5.**

ained austenite; Singlet center peak; X-rays; 10105 steel; chemical shift; Hyperfine peaks; Mössbauer spectra; *10873*. **SP305-2.**

ained austenite; Standard sample; Steel; Electron conversion; Mössbauer; *12902*. **SP305-4.**

ained austenite; Standard sample; Steel; Electron conversion; Mössbauer; *14486*. **SP305-6.**

ained austenite; X-ray diffraction; Austenite; Computer; Error; Phase measurement; Quantitative analysis; *12709*. **SP305-4.**

ained austenite hyperfine interactions; Tempering; Carbon steels; Fe<sup>57</sup> iron; *10326*. **SP305-1.**

ardant treated fabrics; Accidents, clothing fires; Clothing; flame resistance; Burn injuries, fire-retardant clothing; Flame resistance, clothing; *10022*. **SP305-1.**

ardation times; Linear viscoelastic behavior; Relaxation times; *9881*. **SP305-1.**

ardness; Serviceability; Stability; Adaption; Acrylic; Contraction; Dentures; Epoxy; Expansion; Hard rubber; *12189*. **SP305-3.**

ardness; Silicone rubber; Stability; Candida albicans; Dentures; Dimensional changes in dentures; Oral tissues; resilient liners; *10499*. **SP305-1.**

ardness; Temporary cementation; Cementation; Intermediary use; Pulp protection; *13611*. **SP305-5.**

Retention system strength; Riot; Visual clearance; Helmets; Impact attenuation; Penetration; *16265*. **SP305-8.**

Retention system strength; Visual clearance; Crash; Helmet; Impact attenuation; Penetration; *16287*. **SP305-8.**

Retraction ratio; Shrink film, plastic; Balanced and unbalanced film; Film, plastic; Orientation release stress; Plastic heat-shrinkable film; *PS29-70*. **SP305-3.**

Retrieval; Time-sharing computers; User procedures; Automated networks; Automated systems; Data formats; Distributed data base; Information networks; Information system standards; On-line system reactive typewriters; *10575*. **SP305-1.**

Retrieval systems; User-system interface; Data collection techniques; Interactive system interface; *14254*. **SP305-6.**

Retrofitted solar residence; Solar collector; Solar heating and cooling system; Solar-powered absorption refrigeration; *TN892*. **SP305-7.**

Retrofitting; Soil-structure interaction; Structural engineering; Design; Earthquakes; Highway bridges; *SP444*, pp. V-1-V-24 (Apr. 1976). **SP305-8.**

Retrofitting; Storm doors; Storm windows; Tax credit; Vapor barriers; Weatherstripping; Caulks and sealants; Clock thermostats; Energy conservation; Insulation; *NBSIR 75-795*. **SP305-7.**

Retrofitting existing buildings; Energy consumption in NYC schools; Energy-saving opportunities; Incentives—educational, persuasive, financial, regulatory; Modular boiler study; NBS-campus energy retrofit; *15882*. **SP305-8.**

Retro-reflectance; Absorbance; Black coatings; Cavity absorbance; Cavity reflectance; Laser-source reflectometer; Parsons black; *TN575*. **SP305-3.**

Retroreflective sign materials; Colorimetry; Highway signs; Photoelectric tristimulus colorimeters; Photometry of retroreflective materials; *15117*. **SP305-7.**

Retroreflective sign materials; Colorimetry; Highway signs; Photoelectric tristimulus colorimeters; Photometry of retroreflective materials; *NBSIR 74-518*. **SP305-8.**

Retroreflector, cat's eye; Optical devices; Optics, precision; Reflector, cat's-eye; *15202*. **SP305-7.**

Retroreflectors; Semiconductor technology; Thermocouple data; Video tape; Warning lights; Weights and measures; Auto paint; Chlorine monitor; Color measurements; Color use; Postdoctoral appointments; *DIM/NBS 58*, No. 9, 193-215 (1974). **SP305-6.**

Return loss; Sliding short; Shorted termination; Waveguide; Microwave; Reflection coefficient; *TN602*. **SP305-3.**

Return loss; Waveguide short-circuit; Coaxial short-circuit; Impedance standards; Microwave; *11251*. **SP305-2.**

Reverberation chambers; Sound energy measurement; Sound power measurement; Acoustical measurements; Acoustics; Noise measurement; *14786*. **SP305-7.**

Reverberation chambers; Sound propagation; Acoustics; Acoustical holography; Acoustical measurement; Paraholography; *14796*. **SP305-7.**

Reverberation room; Sound level meters; Audiometric standards; Building acoustics; Community noise; Earphones; Environmental noise; Instrumentation; Measurement methodologies; Microphones; Psychoacoustics; *15502*. **SP305-7.**

Reverberation room; Sound power; Statistical room acoustics; Acoustics; Noise; *TN841*. **SP305-6.**

Reverberation room; Spectrum shaping; Digital processing of decay rates; Digital sampling; Graphics display terminal; Interactive program; Least-squares analysis; Real-time analyzer; *15082*. **SP305-7.**

Reverberation rooms; Room acoustics; Sound power; Acoustic modelling; Acoustics; Impact noise; Noise; *16433*. **SP305-8.**

Reverberation rooms; Sound measurement; Sound power; Sound power levels; Measurement technology; *NBS-CCR-76-59*. **SP305-8.**

- Reverberation rooms; Sound transmission; Acoustical measurements; Acoustics; Impact noise; Noise emission; 15501. SP305-7.
- Reverse commute bus service; Shirley Highway; Transportation planning; Bus-on-freeway operations; Choice and captive riders; Cost allocation formula; Incremental costs and revenues; *NBSIR 74-624*. SP305-7.
- Reverse osmosis; Salt-polymer interactions; Aromatic polyamide membranes; Desalination; Diffusion; Membranes; NMR; Permeation in polymers; Polymeric films; 13438. SP305-5.
- Reverse osmosis membranes; Water in membranes; Bound water; Cellulose-acetate membranes; Differential scanning calorimetry; Freezing of water; Membranes; Nuclear magnetic resonance; 14421. SP305-6.
- Reverse recovery; Semiconductor diodes; Carrier lifetime; 15259. SP305-7.
- Reverse recovery time; Carrier drift mobility; Carrier trapping; Charge collection efficiency; Energy resolution; Gamma ray detectors; Hall mobility; Infrared absorption; Lithium drift mobility; Lithium precipitation; Oxygen; Photoconductive decay lifetime; 10465. SP305-1.
- Reversed-phase chromatography; Di(2-ethylhexyl) orthophosphoric acid, Corvic; NBS Standard Reference Material 480; Neutron activation analysis; Rare earths; 14110. SP305-6.
- Reversible; Rubber vulcanizates; Stiffening; Anisotropic;  $\beta$ -naphthyl group; Glass transition temperature; Phenyl  $\beta$ -naphthylamine; Physical forces; Reinforcement; 9896. SP305-1.
- Reversible low power damage; Holographic measurements; Laser induced index change; Optical memories; SP372, pp. 15-26. SP305-4.
- Review; Absorption; Adsorption; Cationic surfactants; Cellulosic materials; 11565. SP305-2.
- Review; Activation energy; Chemical kinetics; Combustion; Rate constant; *J. Phys. Chem. Ref. Data* 1, No. 2, 535-573 (1972). SP305-6.
- Review; Active; Manganese dioxide; Organic chemistry; Oxidation; Reagent; 15880. SP305-8.
- Review; Air pollution; Brillouin spectroscopy; Lasers; Light scattering; Macromolecules; Optical mixing spectroscopy; 12361. SP305-3.
- Review; Algae; Bacteria; Biological corrosion; Fungi; Mechanisms; Prevention; 14528. SP305-6.
- Review; Application; Bio-organic; Methods; Organic; Oxidation; Periodates; 14154. SP305-6.
- Review; Atomic; Chemical kinetics; Free radicals; Mass spectrometry; Mechanism; 12402. SP305-4.
- Review; Atomic transition probabilities; Beam foil spectroscopy; Lifetimes; Regularities; 12124. SP305-3.
- Review; Bibliography; Calorimetric measurements; Fluid mixtures; Joule-Thomson coefficients; Phase equilibria; 15671. SP305-7.
- Review; Bibliography; Dielectric constant; Ferromagnetic resonance; Permeability; Permittivity; 9612. SP305-1.
- Review; Carbon monoxide; Spectrum; *NSRDS-NBS5*. SP305.
- Review; Chemical applications; Literature; Mössbauer Spectroscopy; 12147. SP305-3.
- Review; Chemical applications; Literature; Mössbauer spectroscopy; 10537. SP305-1.
- Review; Chemical kinetics; Data compilation; Dosimetry; G; Gas; Nitrous oxide; Radiation chemistry; Rates; *NSRDS-NBS45*. SP305-5.
- Review; Chemical kinetics; Data compilation; Methanol; Radiation chemistry; Rates; *NSRDS-NBS54*. SP305-7.
- Review; Chemical kinetics; Dissociation; Isotopic exchange; Oxygen atom; Oxygen molecule; Ozone; Recombination; *NSRDS-NBS20*. SP305-1.
- Review; Chemistry; Evaluation of data; Information retrieval; Physics; Publication; Reference data; 11313. SP305-2.
- Review; Colorimetry; Photometry; 14571. SP305-6.
- Review; Dielectric constant; Dielectric loss; Fluoropolymer; Relaxation phenomena; 13717. SP305-5.
- Review; Double resonance; Nuclear magnetic resonance; 12602. SP305-4.
- Review; Electron-impact; Ionization; Ionization mechanisms; Ions; 15942. SP305-8.
- Review; Molecular oxygen; Molecular spectrum; 13891. SP305-6.
- Review; Neutron cross sections; New results; New techniques; SP425, pp. 119-128. SP305-7.
- Review; Rydberg states; Atom; Autoionizing; Collision; C section; Electron; Experiment; Positive ion; 15556. SP305.
- Review; Saturation spectroscopy; Spectroscopic analysis; laser; Isotope separation; Photochemistry; 13818. SP305-6.
- Review; Scattering; Spin-polarization; Electron; Experiment; LEED; Multi-photon; Photoionization; 15900. SP305-8.
- Review; Scattering; Theory; Atom; Collisions; Electron; Ion; energy; 15883. SP305-8.
- Review; Second breakdown; Semiconductor devices; Thermal breakdown; Transistor reliability; Transistors; Circuit reliability; Diodes; Failure mechanisms; Failure modes; 10. SP305-1.
- Review; Selenium; Toxic elements in paints; Analytical methods; Antimony; Arsenic; Cadmium; Lead; Mercury; 13768. SP305-5.
- Review; Sensitivities; Bremsstrahlung; Carbon; Electron accelerators; Nitrogen; Oxygen; Photon activation analysis; 12076. SP305-3.
- Review; Shift; Stark broadening; Width; Experimental; Neutron; *JPCRD* 5, No. 2, 209-258 (1976). SP305-8.
- Review; Solid-vapor equilibria; Unlike molecule interactions; Binary systems; Cryogenic fluids; Interaction second virial coefficients; 15188. SP305-7.
- Review; Solid-vapor equilibria; Vapor pressures; Combination rule correlation; Cryogenic; Enhancement factor the; 11747. SP305-2.
- Review; Spectra; Chemical kinetics; Data compilation; Ethanol; G; Radiation chemistry; Rates; *NSRDS-NBS48*. SP305-6.
- Review; Spectrochemical analysis; Trace analysis; Emission spectroscopy; Excitation sources; 11695. SP305-2.
- Review; Spectrometry; Atomic absorption spectrometry; Atomic fluorescence spectrometry; Emission spectrometry; Flame photometry; Isotopic analysis; Microanalysis; 10. SP305-1.
- Review; Spectroscopy; Transition probabilities; Atomic spectra; Cross section;  $f$ -values; Molecular spectra; Photoionization; Rare-earth; 12683. SP305-4.
- Review; Speed of light; Methods and limitations; Recent results; 9546. SP305-1.
- Review; Stacking fault energy; X-ray diffraction; Deformation; Dislocations; Face-centered cubic metals; Faults; Foil analysis; 14750. SP305-7.
- Review; Standardization; Survey; AID; Development assistance; Economics; Ecuador; Less developed countries; Measurement services; *NBSIR 75-785*. SP305-7.
- Review; Standards; Survey; Antenna gain; Attenuation; Field strength; Impedance; Measurement; Microwave; Noise; Power; Shift; Power; Progress; Reflection coefficient; 9565. SP305.
- Review; Statistics; Transforms; Chemical analysis; Curve fitting; Distribution functions; Experiment planning and optimization; Measurement process; On-line computers; Recognition techniques; 14294. SP305-6.
- Review; Steel fibers; Cement; Concrete; Fiber-reinforced composites; Fiber-reinforced concretes; Glass fibers; Mechanical properties; Organic fibers; 15028. SP305-7.
- Review; Sulfur chemistry; Tables; Activation energies; Evaluation; Gaseous reactions; Radical reactions; Rate constants; *Phys. Chem. Ref. Data* 2, No. 1, 25-84 (1973). SP305-6.



- ew; Survey; Tire disablement; Tire inflation; Tire loading; Tire pressure gages; Tire use; Tread wear; Accident; *TN528. SP305-2.*
- ew; Technique; Atomic physics; Colliding beams; *10914. SP305-2.*
- ew; Thermolecular; Third body; Bimolecular; Chlorine; Dis-citation; Evaluation; Fluorine; Gas; Recombination; *14420. SP305-6.*
- ew; Theoretical; Atom; Electron; Excitation; Experimental; Helium; Hydrogen; Impact; *10692. SP305-1.*
- ew; Theoretical; Atom; Electron; Excitation; Experimental; Helium; Hydrogen; Impact; *NSRDS-NBS25. SP305-1.*
- ew; Thermal conductivity; Cryogenic thermal conductivity; Elements, alloys, commercial metals, semiconductors, semimetals, ionic and valence crystals, minerals, molecular crystals, polymers, glasses, disordered dielectrics, thermal conductivity of; *Monogr. 131. SP305-5.*
- ew; Thermal properties; Composite materials; Electrical properties; Mechanical properties; Metals; Plastics; *13554. SP305-5.*
- ew; Thermodynamic; Argon; Bibliography; Compilations; Critical evaluation; Cryogenics; Experimental measurement; Helium; Helium; Hydrogen; Methane; Nitrogen; Oxygen; Properties of fluids; *13848. SP305-6.*
- ew; Total absorption; Activation; Capture techniques; High resolution methods; Moxon-Rae; *SP425, pp. 139-148. SP305-5.*
- ew; Unimolecular decomposition; Atom-transfer reaction; Chemical activation; Chemical kinetics; Chemi-excitation; Phase; Potential energy surfaces; Recombination; *11943. SP305-3.*
- ew article; Thermodynamic diffusion equations; Vacancy diffusion mechanisms; Atomic diffusion mechanisms; Diffusion; Random walk; *15539. SP305-7.*
- ew articles; Water pollution; Aqueous systems; Bibliography; Biochemical systems; Enthalpy data; Entropy data; Equilibrium data; Gibbs energy data; Heat capacity data; Partial molar properties; Thermochemistry; Thermodynamics; *1454. SP305-8.*
- ew, atomic collision processes in astrophysics; Atomic collision processes in astrophysics, review; *10512. SP305-1.*
- ew journals; Authors of reviews; Critical reviews; Editorial problems; Information requirements; Publication problems; *1281. SP305-2.*
- ew of bond literature; Bond in pullouts and beams; Bond length; Deformed reinforcement; *9160. SP305.*
- ew of data; Atmospheric gases; Cross sections; Electron-recombination; Electrons; *14337. SP305-5.*
- ew of fatigue; Fatigue; Mechanisms of fatigue; *14698. SP305-6.*
- ew of ion-selective electrodes; Symposium proceedings; Ion-selective electrodes; Specific-ion electrodes; *SP314. SP305-1.*
- ew of literature; 1966 dielectrics literature; Dielectrics literature; Dielectric theory; Digest of Literature; Molecular ionic interactions; *10694. SP305-1.*
- ew of literature on rate of effusion and mass-spectrometric analysis; Scandium group and rare-earth gaseous monoxides; Specific heat; Total emittance; Vanadium; Zirconium; Bibliography on spectroscopy of fluorides and oxides of the thorane series; *NBSIR 74-600. SP305-7.*
- ew of photoionization of hydrogen; Helium and their ions; *1676. SP305-2.*
- ew of polymer adsorption; Surface studies; Adsorption of polymers; Adsorption of polymers review; Interface studies; Polymer adsorption; Polymer adsorption review; *10095. SP305-1.*
- ew of radio materials; Dielectric constant; Dielectric loss; Electromagnetic resonance; Permeability; Radio materials measurement; *9611. SP305-1.*
- Review, thermal properties; Cryogenics; Materials; Mechanical properties; *15838. SP305-8.*
- Reviews; Science information; Scientific literature; *11530. SP305-2.*
- Reviews; Two-phase flow; Analyses; Analytical models; Choking flow; Critical flow; Cryogenic fluids; Helium; Hydrogen; Oxygen; *TN633. SP305-5.*
- Rewards for inventors; Environment for innovation; IBM Fellow; Institutions for inventors; Inventors; *SP388, pp. 153-156. SP305-6.*
- RE-W-O systems; Fluorite-related structures; Rare earth tungstates; Rare earth tungsten oxides;  $RE_2O_3-WO_3$  compounds; *SP364, pp. 397-411. SP305-4.*
- Reynolds number; Angular insensitivity; Fluidic device; Hot wire anemometer; Ion deflection device; Laser Doppler anemometer; *16108. SP305-8.*
- Reynolds number; Viscous flow; Volumetric flow; Accuracy; Calibration; Compressible flow; Differential meter and effects; Fluid meter; Incompressible flow; Laminar flow; Mach number; *9535. SP305-1.*
- Reynolds number effect on gas turbine flowmeters; Flowmeters; Gas turbine flowmeters; *12773. SP305-4.*
- $RE_2O_3-WO_3$  compounds; RE-W-O systems; Fluorite-related structures; Rare earth tungstates; Rare earth tungsten oxides; *SP364, pp. 397-411. SP305-4.*
- RF amplifiers; Transistor noise; Atomic frequency standards; Capacitor noise; Cesium beam; Flicker phase noise; Frequency multipliers; Frequency standards; Hydrogen maser; Negative feedback; Noise; Phase noise; *10968. SP305-2.*
- RF and microwave measurements; Standards; Calibrations; Laser calorimeters; Measurement assurance programs; Non-ionizing EM radiation hazards; *SP456, pp. 417-425 (Nov. 1976). SP305-8.*
- RF and microwave power measurements; Standard of power through 18 GHz; Bolometric power standards; Bolovac power measurements; Calibration of power meters; *J74C Nos. 3 and 4, 123-133 (1970). SP305-2.*
- Rf attenuation; Rf measurement; Rf power; Superconductivity; Josephson effect; Quantum interference; *TN643. SP305-5.*
- Rf attenuation; Rf measurement; Rf power; Superconductivity; Josephson effect; Quantum interference; *TN661. SP305-6.*
- Rf attenuation; Rf measurements; Superconductivity; Josephson effect; Quantum interference; *13359. SP305-5.*
- Rf attenuation; Rf measurements; Superconductivity; Josephson effect; Quantum interference; *13557. SP305-5.*
- Rf attenuation; Superconductivity; Josephson junction; Quantum interference; *14726. SP305-7.*
- Rf attenuation; Superconductivity; Josephson junction; Quantum interference; *14838. SP305-7.*
- RF biological hazards; Electromagnetic-field hazards; Electromagnetic-field synthesizer; Electromagnetic radiation-exposure testing (non-ionizing); Near fields; *TN652. SP305-6.*
- Rf biological hazards; Electromagnetic field hazards; Electromagnetic field synthesizer; Electromagnetic radiation-exposure testing (nonionizing); Near-fields; *TN687. SP305-8.*
- Rf burst generator; Spectral intensity; Broadband signal generator; Impulse bandwidth; Receiver bandwidth calibration; *NBSIR 74-371. SP305-8.*
- Rf coaxial impedance standards; Attenuation measurement; Automatic data correction; Auxiliary receiver for microwave measurements; Dual admittance Woods bridge; Engen micro-calorimeter; *SP335, pp. 117-119. SP305-3.*
- RF connector; Coaxial techniques; Precision coaxial measurements; *9381. SP305.*
- RF connectors; SMA connectors; Coaxial connectors; Connectors; *16476. SP305-8.*
- RF exposure; Spectrum analyzer; Antenna; Microwave; Minicomputer; Radiofrequency; *SP456, pp. 203-213 (Nov. 1976). SP305-8.*

- R-f hazard measurements; Semiconducting transmission line; Electric near-field probe; Electromagnetic-field hazard; Field-strength measurements; Magnetic near-field probe; Near-field measurements; *TN658*. SP305-7.
- RF interferometer; Agriculture; Computer control; Position sensors; *16143*. SP305-8.
- RF magnetic materials; VHF bridge; VHF magnetic materials; Admittance meter; Attenuation calibration; Lossy magnetic materials; Magnetic measurement methods; Permeability; *J72C No. 1, 81-89 (1968)*. SP305-1.
- RF measurement; Rf power; Superconductivity; Josephson effect; Quantum interference; RF attenuation; *TN643*. SP305-5.
- RF measurement; Rf power; Superconductivity; Josephson effect; Quantum interference; RF attenuation; *TN661*. SP305-6.
- RF measurements; Runway capacities; Semiconductor materials test; Speed of light; Measures for air quality; Metric chart; *TNB 57, No. 1, 1-24 (1973)*. SP305-5.
- RF measurements; Superconductivity; Josephson effect; Quantum interference; RF attenuation; *13359*. SP305-5.
- RF measurements; Superconductivity; Josephson effect; Quantum interference; RF attenuation; *13557*. SP305-5.
- RF null detector; Detector; Phase sensitive; *13420*. SP305-5.
- RF peak pulse power; Notch wattmeter; Pulse-CW equalization; Pulse modulated carrier systems; *TN682*. SP305-8.
- RF power; Coaxial; Coupler; Directional; Reflectometer; *9333*. SP305.
- RF power; Measurement; Peak pulse power; Pulse modulation; *9792*. SP305-1.
- RF power; Superconductivity; Josephson effect; Quantum interference; RF attenuation; RF measurement; *TN643*. SP305-5.
- RF power; Superconductivity; Josephson effect; Quantum interference; RF attenuation; RF measurement; *TN661*. SP305-6.
- RF power, measurement; Receiver calibration; *11641*. SP305-2.
- RF power meter; Utilities system; Batteries; Dental materials; Industry; Integrated utilities system; Mass spectrometry; Motorized criminal; Ozone puzzle; Portable transceiver batteries; *DIMI/NBS 60, No. 3, 1-24 (1976)*. SP305-8.
- RF radiation; Antenna specifications; Mobile telecommunication transmitters; *SP456*, pp. 199-202 (Nov. 1976). SP305-8.
- RF resonance spectroscopy;  $2^3P$  term of  $Li^+$ ; Electron-excitation cross section; Lifetime; *13339*. SP305-5.
- RF spectroscopy; Rubidium; Zeeman effect; Atomic beam; Autoionization; Differential metastability; Fine structure; Inner shell excitation; *16098*. SP305-8.
- RF spectrum; Spectral density of phase fluctuations; Spectral purity; Frequency multiplication; Linewidth; Multiplier chain; Precision oscillator; *15675*. SP305-7.
- RF sputtering; Damage threshold; Dielectric films; Heat conduction; Laser damage; Multiphoton absorption; *SP435*, pp. 272-283 (Apr. 1976). SP305-8.
- RF sputtering; Standing-wave patterns; Damage thresholds; Dielectric thin films; Electric fields; Electron-gun evaporation; Picosecond pulses; *SP435*, pp. 254-271 (Apr. 1976). SP305-8.
- RF sputtering; Strength; Surface finish; Twins; Carbides; Glass; ion beam sputtering; Nitrides; Oxides; *SP348*, pp. 171-187. SP305-4.
- RF transition; Zeeman effect;  $H_2CO$ ; Magnetic hyperfine structure; *9412*. SP305.
- RF-dc; Thermopile radiation; Ammeter; Coax; Infrared; *12198*. SP305-3.
- RF-DC difference; Standard; Thermal-current-converter; Thermopile; Ammeter; Compensation; Radio-frequency; *14588*. SP305-6.
- r-fold transitivity; Stirling numbers; Bell numbers; Permutation group; *14538*. SP305-6.
- R-function analysis; Measured  $\sigma_f(E)$ ,  $E \approx 1.5-5.0$  MeV,  $E$ ,  $E \approx 1.8-4.0$  MeV,  $\theta_{lab} \approx 20$  to  $160^\circ$ ; Nuclear reaction  $^{12}C(n,n)^{12}C$ ; *SP425*, pp. 246-249. SP305-7.
- R-function and phase-shift analyses;  $\theta_{lab} \approx 20$  to  $150^\circ$ ;  $E \approx 2.5$  MeV; Measured  $p(E,\theta)$  absolutely for  $^{12}C(n,n)$  reaction then determined  $A(E,\theta)$  for other reactions; *SP425*, pp. 878. SP305-7.
- Rh; Rh-Pd alloys; Ru-Rh alloys; Specific heat; Tight-binding; proximation; Electronic density of states; Electronic specific heat; Palladium (Pd); *SP323*, pp. 579-585. SP305-4.
- Rhenium; Absolute ratio; Atomic weight; Isotopic abundance; *J77A No. 6, 691-698 (1973)*. SP305-5.
- Rhenium; Chemisorption; Field emission; Nitrogen; *5*. SP305.
- Rhenium; Cross sections; Excitation function; Proton; *SP*, pp. 509-511. SP305-7.
- Rhenium; Rhenium coatings; Rhenium oxychlorides; Chemical vapor deposition; *11848*. SP305-3.
- Rhenium; Rhodium; Rigid band approximation; Tantalum (T); Thermal conductivity; Thermoelectric power; Transport properties; Tungsten (W); Chromium; Electronic density of states; Iridium; *SP323*, pp. 685-690. SP305-4.
- Rhenium; Rubidium; Sodium; Surface diffusion; Tantalum; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy composition; Beryllium; Cerium; Cesium; Chromium; *J. Phys. C Ref. Data 4, No. 1, 177-250 (1975)*. SP305-7.
- Rhenium; Ruthenium; Surface migration; Carbon monoxide desorption; Field emission; Monoxide; *11819*. SP305-3.
- Rhenium; Self-surface ionization; Tungsten; Electron affinity; Ion sublimation energy; Mass spectrometry; Positive negative atomic ions; *10181*. SP305-1.
- Rhenium; Spectrum; Energy levels; *15380*. SP305-7.
- Rhenium; Sticking coefficient; Surface coverage; Adsorption kinetics; Nitrogen; *9394*. SP305.
- Rhenium; Sticking coefficient; Tungsten; Carbon monoxide; High temperature; Isotopic mixing; Molybdenum; Nitrogen; *11377*. SP305-2.
- Rhenium; Sticking coefficient; Tungsten; Carbon monoxide; Chemisorption; Isotopic mixing, flash desorption; Molybdenum; Nitrogen; *11484*. SP305-2.
- Rhenium; Tantalum; Thallium; Tungsten; Wavelengths; Yttrium; Bismuth; Gold; Hafnium; Ionization energies; Iridium; Lead; Lutetium; Mercury; Osmium; Platinum; *16420*. SP305-8.
- Rhenium; Vapor deposition; Hexafluoroacetylacetonate; *10*. SP305-1.
- Rhenium coatings; Rhenium oxychlorides; Chemical vapor deposition; Rhenium; *11848*. SP305-3.
- Rhenium coatings; Trifluorophosphine; Carbonyl; Chemical vapor deposition; Electrodeposition; Hexafluoroacetylacetonate; *11942*. SP305-3.
- Rhenium heptafluoride; Rhenium oxytetrachloride; Chemical vapor deposition; Perfluorinated chloride; *12062*. SP305-3.
- Rhenium oxychlorides; Chemical vapor deposition; Rhenium coatings; *11848*. SP305-3.
- Rhenium oxytetrachloride; Chemical vapor deposition; Perfluorinated chloride; Rhenium heptafluoride; *12062*. SP305-3.
- Rheological properties of dental amalgam; Amalgam; Dental Correlation of laboratory and clinical evaluations; Creep; Dental amalgam; Dental materials; Dynamic creep; Fracture marginal of dental amalgam; *SP354*, pp. 177-180. SP305-3.
- Rheological unites; Row nucleus; Shishkebab; Sonication; Spinning; Stirred solution; Crystallization; Cylindrical Drawing of swollen polymer solid; Epitaxial overgrowth; Friction; Hard elastomer; Nucleation; Oriented melt; *16*. SP305-8.
- Rheology; Measurements; Model; *11757*. SP305-2.

logy; Rheometer; Viscoelasticity; Normal stresses; *J.74C* us. 1 and 2, 18-19 (1970). **SP305-2.**

logy; Scalar-potential; Strain-energy; Thermodynamics; Viscoelasticity; Constitutive equation; Continuum mechanics; Elasticity; Isotropy; Material symmetry; Mechanical properties; *14689. SP305-6.*

logy; *10583. SP305-1.*

meter; Viscoelasticity; Normal stresses; Rheology; *J.74C* us. 1 and 2, 18-19 (1970). **SP305-2.**

us; Suppression; Behavior; Behavioral suppression; Exposure; Microwave radiation; Microwaves; Product safety; Radiation; Radiation effects; Resonant cavity; *15194. SP305-5.*

amine B chloride; Spectrofluorimetry; Total internal reflection; Emission anisotropy; Fluorescence; Photodetectors; Polarization; Quantum counters; *16430. SP305-8.*

amine 6 G; DODCI; Dye laser; Laser; Mode-lock; Resonator; *14008. SP305-6.*

amine 6G; DODCI; Dye laser; Laser; Mode-lock; Resonator; *NBSIR 73-347. SP305-6.*

ium; Rigid band approximation; Tantalum (Ta); Thermal conductivity; Thermoelectric power; Transition metal; Transport properties; Tungsten (W); Chromium; Electronic density of states; Iridium; Low-temperature specific heat; *SP323*, pp. 685-690. **SP305-4.**

ium; Ruthenium; Thermodynamic properties; Calorimetry; Experimentally evaluated data; Debye temperature ( $\theta$ ); Electronic specific heat capacity ( $\gamma$ ); Enthalpy; Entropy; Gibbs energy; *J. Phys. Chem. Ref. Data* 3, No. 1, 163-209 (1974). **SP305-6.**

ium; Ruthenium; Thermomigration; Alloys; Cobalt; Copper; Diffusion; Electromigration; Iron; Nickel; Palladium; Platinum; *JPCRD* 5, No. 1, 103-200 (1976). **SP305-8.**

ium; Solubility; Uranium; Intermetallic compounds; Phase diagram; *J.72A No. 1, 11-17 (1968). SP305-1.*

ium alloys; Chromium alloys; Constitution diagram; Phase diagram; Phase diagram; *13614. SP305-5.*

ium alloys; Vanadium alloys; Atomic ordering; Crystal structures; Intermetallic compounds; *13522. SP305-5.*

ium-103; Fast neutrons; Inelastic scattering; Isomeric transition; Level scheme; Optical model; *SP425*, pp. 879-882. **SP305-7.**

onic acid; Tetrahydroxyquinone; Acetates; Benzenehex-3-one; Disproportionation; Esters; *10936. SP305-2.*

onic acid; Tetrahydroxyquinone; Acetates; Benzenehex-3-one; Disproportionation; Esters; *11301. SP305-2.*

onic; Spacing; Antenna; Comparison; Co-planar; Gain; Inductance; Mutuals; Nested; Patterns; Planar; Proximity; *10677. SP305-2.*

obohedral boron; X-ray diffraction; Amorphous boron; Amorphous boric acid; Boric oxide; Boron carbide structure; Boron suboxide; Crystal structure; Decompose; Electric microbeam probe; Infrared spectrum; Lattice parameters; *SP364*, pp. 605-611. **SP305-4.**

obohedral lattice-sampling method; Uniform color scales; Color chips; Color scales; Painted color chips; *9821. SP305-5.*

alloys; Ru-Rh alloys; Specific heat; Tight-binding approximation; Electronic density of states; Electronic specific heat; Palladium (Pd); Rh; *SP323*, pp. 579-585. **SP305-4.**

ance; Statistics; Temperature coefficient; Auto headlamp beam; Population; Refractive index; *15086. SP305-7.*

on wire; Round wire; Testing (wire bond); Ultrasonic bonding; Wire bond; Aluminum wire; Bonding; Fabrication (wire bonds); Microelectronics; *TN767. SP305-5.*

on wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; *TN754. SP305-5.*

Ribbon wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; *TN743. SP305-4.*

Ribbon wire scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; Test patterns; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; *SP400-4. SP305-6.*

Ribbon-wire bonding; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; *TN743. SP305-4.*

Ribopyranose; Skew; Carbohydrates; Conformations; Coupling constants; Proton resonance; *11732. SP305-2.*

Rib-stiffened plate; Structural analysis; Curved bar analysis; Discrete variables; Elastic; Force transducer; Minimum weight;  $n$ -degree elliptical ring; Nonlinear programming; Non-random complex method; Optimization; *J.72C No. 4, 249-258 (1968). SP305-1.*

Riccati method; Spectral line formation; Variable-property media; Doppler width; Radiative transfer media; *10707. SP305-1.*

Rice-Allnatt equation; Boltzmann equation; Correlation term; Dilute gas; Fokker-Planck equation; Hard-core potential; *10645. SP305-1.*

Ridge; System; Automated; Bifurcations; Classification; Descriptor; Endings; Fingerprint; Henry system; Identification; Minutia; *10273. SP305-1.*

Riding toys; Stairway; Static stability; Test weight; Tilt angle; Toy testing; Abuse testing; Dynamic stability; Hazards; Obstruction; *NBSIR 74-623. SP305-7.*

Riemann integral; Singularities; Improper integrals; Integrals; Numerical analysis; Numerical integration; Numerical quadrature; Quadrature; *15180. SP305-7.*

Riemann integrals; Improper integrals; Integration; Numerical integration; Quadrature; *14206. SP305-6.*

Riemann surface; Automorphism; Finite field; Genus; Hecke operator; Klein's invariant; Linear transformation; Modular form; *AMS61. SP305-1.*

Riemann surfaces; Automorphisms; Fuchsian groups; Modular group; *11368. SP305-2.*

Riemann zeta function; Bernoulli numbers; Euler-Maclaurin method; Euler transform; Euler's constant; Multiple precision package; *J. 76B Nos. 3 and 4, 161-178 (1972). SP305-4.*

Rietz, H. L.; Shewhart, W. A.; Statistical tolerance limits; Wilks, S. S.; Wishart, John; Annals of Mathematical Statistics; Army Experiment Design Conferences; Dodd, E. L.; Educational testing; *15513. SP305-7.*

Right to royalties; Supplementary system; Traditional property rights; Unrestricted copying; Useful service; Anti-trust violations; Better products; Copiers; Developer-producer's; Dormant patents; Higher productivity; Improvements; Industrial stimulus; *9780. SP305-1.*

Rigid band approximation; Tantalum (Ta); Thermal conductivity; Thermoelectric power; Transition metal; Transport properties; Tungsten (W); Chromium; Electronic density of states; Iridium; Low-temperature specific heat; *SP323*, pp. 685-690. **SP305-4.**

Rigid band model; Transition metals; X-ray photoemission; ZnS; CdCl<sub>2</sub>; Density of states; HgO; Noble metals; *SP323*, pp. 163-178. **SP305-4.**

Rigid band model; Transition metals; X-ray photoemission; ZnS; CdCl<sub>2</sub>; Density of states; HgO; Noble metals; *J.74A No. 4, 543-558 (1970). SP305-2.*

- Rigid disks; Rigid spheres; Thermal conductivity; Transport coefficients; Triple collisions; Viscosity; Dense gases; 9399. SP305.
- Rigid disks; Rigid spheres; Thermal conductivity; Transport properties; Triple collisions; Viscosity; Dense gases; Diffusion; 10709. SP305-1.
- Rigid plastic; Ultraviolet absorbers; Color reactions; Opaque pigments; Photodegradation; Poly(vinyl chloride); 10137. SP305-1.
- Rigid polyurethane; Roofing; Durability; Fire safety; Performance guidelines; Protective coatings; TN778. SP305-5.
- Rigid polyvinyl chloride (PVC); Test methods; Ultraviolet (UV) radiation; Water vapor; Weathering—artificial and natural; Yellowing; Atmospheric pollutants; Color—difference and representation; Impact resistance; Plastics; SP361, Vol. 1, pp. 751-760. SP305-4.
- Rigid PVC; Extrusions; Poly(vinyl chloride); Profile; Profile extrusions; PVC profile extrusions; PS26-70. SP305-2.
- Rigid rotations; Rotation; Axis and angle of rotation; Coordinate inversion; Coordinate reflection; Improper rotations; Matrices; Orthogonal transformations; Proper rotations; J73B No. 2, 125-138 (1969). SP305-1.
- Rigid rotor; Rotational excitation; Diatomic molecules; Electron scattering; H<sub>2</sub>; 10289. SP305-1.
- Rigid spheres; Thermal conductivity; Transport coefficients; Triple collisions; Viscosity; Dense gases; Rigid disks; 9399. SP305.
- Rigid spheres; Thermal conductivity; Transport properties; Triple collisions; Viscosity; Dense gases; 9400. SP305.
- Rigid spheres; Thermal conductivity; Transport properties; Triple collisions; Viscosity; Dense gases; Diffusion; Rigid disks; 10709. SP305-1.
- Rigid urethane foam; Smoke; Dibromotetrafluoroethane; Fire tests; Flame spread index; Heat release rate; Ignition temperature; NBSIR 74-456. SP305-6.
- Rigid urethane foam; Smoke; Dibromotetrafluoroethane; Fire tests; Flame spread index; Heat release rate; Ignition temperature; 15615. SP305-7.
- Rigid-band approximation; Electron donation model; Electronic density of states; Gold-palladium alloys; Hydrogen absorption; Hydrogen in palladium-gold alloys; Palladium-gold alloys; SP323, pp. 727-729. SP305-4.
- Rigid-band approximation; Scattering phase-shifts; *t*-matrices; Delta-function potential; Excluded terms; Green's functions; Multiple-scattering series; SP323, pp. 515-518. SP305-4.
- Rigid-band approximation; Soft x-ray emission; Aluminum (Al); Aluminum-magnesium alloys (Al-Mg); Charging effect; Electronic density of states; Emission spectra; Magnesium (Mg); SP323, pp. 313-317. SP305-4.
- Rigid-band approximation; Superconducting transition temperatures; Tantalum-tungsten (Ta-W); Ti-Mo; Titanium-molybdenum (Ti-Mo) alloy; Tungsten (W); W-Re; Alloys; Bcc transition metal alloys; Charging effect; SP323, pp. 587-596. SP305-4.
- Rigid-band approximation; Tunnel junctions; Al-oxide-Pd; Electronic density of states; Hydrogen in palladium; SP323, pp. 737-739. SP305-4.
- Rigid-band model; Saltwater corrosion; Surfaces; Alloy theory; Catalysis; Chemisorption; Cu-Ni alloys; D-bands; Electron-configuration; Metallurgy; Passivity; 13805. SP305-6.
- Rigid-bodies; Thermal constraints; Constrained refinement; Least-squares refinement; Molecular crystal structures; Molecular libration; 13221. SP305-5.
- Rigid-body analysis; Thermal motion; Crystal structure; Neutron diffraction; PH<sub>4</sub>Br; 12119. SP305-3.
- Rigid-molecule; Scattering; Selection-rules; Group theory; Inelastic; Neutron; 13151. SP305-5.
- Rigid-rotor, high temperatures; Thermodynamic properties; Thermodynamics, rigid-rotor; 9263. SP305.
- Ring; Solution; Strength; Stress; Coaxial; Deflection; Flexure; Glass; Numerical; Plate; 12460. SP305-4.
- Ring conformation; Rotational constants; 3,6-Dicyclo[3.1.0]hexane; Boat conformation; Dipole moment; Microwave spectrum; 13618. SP305-5.
- Ring conformation; Rotational constants; Cyclopentene oxide; Dipole moment; Epoxy cyclopentene; Microwave spectrum; 11970. SP305-3.
- Ring conformation; Rotational constants; Cyanocyclobutene; Dipole moment; Microwave spectrum; Molecular structure; 14282. SP305-6.
- Ring conformation; Substituent effects; Amides; Carbo-magnetic resonance; Chemical shifts; Cis and trans isomers; Peptides; Proline; 16235. SP305-8.
- Ring cracking; Shaping; Size-effect; Statistical nature strength; Ultrasonic cutting; Weibull distribution; Abrasive brittle-ductile transition; Erosion; Fracture location; SP311, pp. 119-131. SP305-4.
- Ring puckering vibration; Rotational spectrum; Silacyclobutene; Vibrational potential functions; Vibration-rotation interaction; Dipole moment; Molecular structure; 12932. SP305.
- Ring system; Syntax analysis; Transformation algorithms; Wiswesser; Acyclic; Benzene; Chemical structure notation; Connection tables; Contractions; 10550. SP305-1.
- Ring system; Syntax analysis; Transformation algorithms; Wiswesser; Acyclic; Benzene; Chemical structure notation; Connection tables; Contractions; TN432. SP305-1.
- Ring system; Syntax analysis; Transformation algorithms; Wiswesser; Acyclic; Benzene; Chemical structure notation; Connection tables; Contractions; 10947. SP305-2.
- Ring theory; Stochastic process; Information theory; Markov process; Probability theory; J75B, Nos. 3 and 4, 139 (1971). SP305-3.
- Ring-disk electrodes; Electroanalysis; Electronic structure; Hydrogen peroxide; Iron phthalocyanines; Mössbauer; Optical spectra; Oxygen; Reaction mechanisms; SP455, pp. 251 (Nov. 1976). SP305-8.
- Ring-puckering; Barrier heights; Four-member ring molecules; Infrared spectroscopy; Microwave spectroscopy; Raman spectroscopy; 14685. SP305-6.
- Riot; Visual clearance; Helmets; Impact attenuation; Penetration; Retention system strength; 16265. SP305-8.
- Ripple; Sand transport; Oscillatory flows; Permeability; 15 SP305-7.
- Ripple voltage; Transistor; Voltage regulation; Zener diode; C amplifier; Design equations; Differential amplifier; I regulator; Integrated circuit; Output resistance; Power supply; Power supply; Preregulator; Regulation factor; TN371. SP305-1.
- Ripples, sand; Sand motion under waves; Beach accretion; Coastal processes; Offshore zone; Oscillatory water table; Permeability effect on sand transport; 15793. SP305-8.
- Rise time; Sampling oscilloscope; Spectrum amplitude; 1 domain; Transient; Automated measurement; Pulse; 16 SP305-8.
- Rise time; Temporal response; Transfer standard detection; XUV photodiode; Radiometry; 15226. SP305-7.
- Risetime; Sampling; Time base; Transition time; Mercurial switch; Oscilloscope; Picosecond; Pulse; Random sampling; 13799. SP305-5.
- Risetime; Sampling; Transition time; Mercury switch; Oscilloscope; Picosecond; Pulse; Random sampling; 14 SP305-6.
- Risetime; Trigger; Tunnel diode; Directional coupler; Picosecond; Pulse generator; 15653. SP305-7.
- Risk; Costs; Energy; Financial; Resources; SP403, pp. 237 (June 1976). SP305-8.
- Risk; Stability; Standards; Strength; United States; Abnormal loading; Building; Codes; Design criteria; Multistory; Progressive collapse; 13475. SP305-5.



- Statistical analysis; Storms; Structural engineering; Wind  
ads; Wind speeds; Building codes; Probability distribution  
nction; Reliability; 15558. **SP305-7.**
- Statistical analysis; Storms; Structural engineering; Wind  
ads; Wind speeds; Building codes; Extreme value distribu-  
tions; Hurricanes; Probability distribution functions; Reliability;  
TN868. **SP305-7.**
- Statistical analysis; Storms; Structural engineering; Wind  
essure; Wind speed; Buildings (codes); Hurricanes; Prob-  
ability distribution functions; Reliability; 16545. **SP305-8.**
- Statistics; Structure; Building; Explosion; Frequency; Gas;  
as industry; Progressive collapse; 13782. **SP305-5.**
- Analysis; Security; Data confidentiality; Data integrity;  
Encryption; Personal identification; Privacy; Record identifi-  
cation; 16390. **SP305-8.**
- Analysis; Security audit; Security awareness; Supporting  
ilities; ADP security; Computer reliability; Contingency  
ans; Federal Information Processing Standard; Fire safety;  
atural disasters; Physical security; *FIPS PUB 31*. **SP305-6.**
- Benefit; Smoke detectors; Standards; Alarm communica-  
ns; False alarms; Fire alarms; Fire detectors; *SP411*, pp.  
5-200. **SP305-6.**
- Measurement; Safety standard; Unreasonable hazards;  
Consumer products; Product safety; Refrigerator standards;  
131. **SP305-8.**
- Benefit; Consumer product hazard; 16248. **SP305-8.**
- Benefit; Consumer product hazard; 16250. **SP305-8.**
- Benefit analysis; Standards; Acceptance of risk; Consumer  
duct safety; Perception; 14664. **SP305-6.**
- Silicon; Spectrum; Standards; Ultraviolet; Vacuum;  
avelengths; Carbon; Copper; Germanium; 9338. **SP305.**
- Water; Sampling water for trace elements; Suspended par-  
ticles in water; Teflon water sampler; Trace elements;  
ate elements in water; Water; Filtering water; *SP422*, pp.  
9-455 (Aug. 1976). **SP305-8.**
- Water; Trace elements; Tracers; Water; Freeze drying; In-  
strumental neutron activation analysis; Lyophilization;  
utron activation analysis; Preconcentration; Radioactive  
cers; 15376. **SP305-7.**
- Potentials; A-doubling; Heterogeneous interaction;  
olecular hydrogen; Nonadiabatic; Pure precession; 13897.  
**SP305-6.**
- Gen; X rays; Absorption corrections; Attenuation coeffi-  
cient; Conference; Crystallography; Electron microprobe;  
orescence analysis; Gamma rays; Photons; 11814. **SP305-**
- trix; Standards;  $^6\text{Li}$ ;  $^{10}\text{B}$ ; Cross sections; Light elements;  
425, pp. 302-308. **SP305-7.**
- trix; Strength; Time-of-flight; Function; Mass number;  
utrons; Optical potential; 14014. **SP305-6.**
- Error; Analysis; Determinants; Experimental data; Mul-  
tiple; Nonlinear parameters; 9867. **SP305-1.**
- Location; Steiner's problem; Street-network problem;  
nsportation theory; Optimal interchange location; Optimal  
works; Optimal road layout; Planar graphs; Planar net-  
works; 11633. **SP305-2.**
- Test; Tires; Cut growth; Cutting; 11495. **SP305-2.**
- Way operating environment; Urban roads; Vehicle charac-  
teristics; Automobile fuel consumption; Congestion; Energy  
onservation; Fuel consumption; Impact assessment; *NBSIR*  
595. **SP305-6.**
- ery; Sequence cameras; Shoplifting; Surveillance; Surveil-  
ence cameras; Cameras; Demand cameras; Employee theft;  
ed surveillance; Motion picture surveillance; 14923.  
**SP305-7.**
- t; Sound; Construction; Dry weight; Ears; Energy; Health  
e; Hospitals; Measurement science; Meter; Metric; Pulses;  
*MINBS* 59, No. 10, 218-239 (1975). **SP305-7.**
- t systems; Artificial intelligence; Automation; Computer  
ontrol; Manipulators; Robots; 16047. **SP305-8.**
- Robots; Automatic control; Automation; 16036. **SP305-8.**
- Robots; Automation; Computers; Energy conservation; Fish  
story; Innovation; Lead paint; Low-cost housing; Privacy;  
R&D systems; *DIM/NBS* 58, No. 11, 241-263 (1974).  
**SP305-6.**
- Robots; Robot systems; Artificial intelligence; Automation;  
Computer control; Manipulators; 16047. **SP305-8.**
- Robust estimators; Statistical estimation; Weighted means; Wild  
observations; Asymptotic theory; Efficiency; Median; Order  
statistics; Probability distributions; 10229. **SP305-1.**
- Robust techniques; Statistics; Least squares; 14554. **SP305-6.**
- Robustness of construction; Technical evaluation; Uniformity of  
assessment; Weathering; Agreement; Durability prediction;  
Economic aspects; Evaluative judgement; Need for clarity of  
purpose; Performance concept; *SP361, Vol. 1*, pp. 491-502.  
**SP305-4.**
- Rock; Zirconia; Alumina;  $\text{Al}_2\text{O}_3$ ; Ceramics; Electron micros-  
copy; Fine-grain ceramic; Ion bombardment; Magnesia;  $\text{MgO}$ ;  
Microstructure; 12083. **SP305-3.**
- Rock mechanics; Space environment simulation; Ultrahigh  
vacuum; Anisotropy; Compression tests; Mass spectroscopy;  
Mechanical properties; Outgassing; Pressure measurements;  
*SP336*, pp. 209-223. **SP305-3.**
- Rocket propellant; Slurry flow; Slush hydrogen; Cryogenic  
pump; Densitometer; Liquid-solid mixtures; 16222. **SP305-4.**
- Rocket propellant; Slush hydrogen; Liquid-solid hydrogen mix-  
tures; Quality determination; 10336. **SP305-1.**
- Rocket propellants; Slush hydrogen; Slush hydrogen gels; Slush  
nitrogen gels; Gels; Liquid nitrogen gels; Liquid hydrogen  
gels; Liquid-solid hydrogen gels; TN378. **SP305-1.**
- Rocket propellants; Slush hydrogen; Slush hydrogen gels; Slush  
nitrogen gels; Gels; liquid hydrogen gels; Liquid nitrogen  
gels; Liquid-solid hydrogen mixtures; 11733. **SP305-2.**
- Rocket-fuel tanks; Compatibility tests; Electrolytic protection;  
Hydrazine; Maraging steel; Metallic coatings; Missiles; 11934.  
**SP305-3.**
- Rock-forming minerals; Specimen preparation; Electron  
microscopy; *in situ* experiments; Ionic bombardment;  
Microscope stages; 15895. **SP305-8.**
- Rocking beam oscillator; Stress relaxation; Torsion pendulum;  
Viscoelastic methods; Amalgam, dental; Creep; Dental  
materials; Denture base resins; Indentation test method;  
Mechanical properties, dental materials; *SP354*, pp. 127-144.  
**SP305-4.**
- Rocking curve; Angular divergence; Asymmetric diffraction;  
Diffraction topography; Dynamical diffraction; 16055.  
**SP305-8.**
- Rocks; Analysis; Electron probe; Lunar samples; Microanalysis;  
Minerals; 11995. **SP305-3.**
- Rocks; Apollo 11; Electron probe analysis; Mineralogy; Moon;  
Petrography; 11958. **SP305-3.**
- Rocks; Apollo 12; Crystallization; Mineralogy; Moon; Petro-  
graphy; Pyroxene; 14641. **SP305-6.**
- Rocks; Rubidium; Soils; Absolute; Apollo; Composition; Isotop-  
ic; Lithium; Potassium; Relative; 15869. **SP305-8.**
- Rocks and minerals; Sample preparation; Sampling; Trace anal-  
ysis; Water sampling; Contamination; Geological sample;  
*SP422*, pp. 285-297 (Aug. 1976). **SP305-8.**
- Rocks and ores; Sample preparation; Trace element analysis;  
Accuracy and precision; Comparison of trace analytical  
methods; Contamination; *SP422*, pp. 773-790 (Aug. 1976).  
**SP305-8.**
- Rocksalt structure; Rutile structure; Spinel structure; Corun-  
dum structure; Order-disorder; Raman spectra; *SP364*, pp.  
113-126. **SP305-4.**
- Rockwell superficial hardness tester; Vickers hardness number;  
Vickers hardness tester; Brinell hardness number; Dental  
casting; Gold alloy; Indentation; 13304. **SP305-5.**
- Rodlike; Intrinsic viscosity; Poly(*n*-butyl isocyanate); Poly(*n*-  
octyl isocyanate); 13919. **SP305-6.**

Rodlike molecule; Single relaxation time; Dielectric constant; Dielectric relaxation time; Dipole moment; Distribution of molecular weights; Distribution of relaxation times; Poly(*n*-butylisocyanate); 11678. SP305-2.

Rodlike molecules; Dielectric constant; Dielectric relaxation time; Dipole moment; Molecular relaxation in dilute solution; Poly(*n*-butyl isocyanate); 10859. SP305-1.

Rodlike molecules; Dielectric constant; Dielectric relaxation time; Dipole moment; Kratky-Porod worm-like model; Molecular relaxation in dilute solution; Poly(butyl-isocyanate); Polymer chain configuration; Polypeptides; 11262. SP305-2.

Rods, insulator; Breakdown, electrical; Failure analysis; Fiberglass-reinforced plastics; Flammability; Guy insulators; High-voltage tests; Insulators, tower guy; Loran C; Pultruded rods; NBSIR 76-1136. SP305-8.

Röntgen; Standard;  $\gamma$  radiation;  $\gamma$  response; Calibration; Exposure rate; Geometry; Instrument; Ion chamber; SP456, pp. 59-63 (Nov. 1976). SP305-8.

Role of government; Role of private enterprise; Technology; World trade; Developing countries; International standards; M284. SP305.

Role of metal and ligand; Synthesis; Thermal stability; Metallo-organic polymers; 10276. SP305-1.

Role of metal and ligand; Thermal stability; Coordination polymers; 16308. SP305-8.

Role of NBS motor vehicle safety; Tire system research; Braking system; Occupant restraint system research; Research information exchange; 9604. SP305-1.

Role of private enterprise; Technology; World trade; Developing countries; International standards; Role of government; M284. SP305.

Roll filters; Air conditioning filters; Air filters; Particulate filters; 13870. SP305-6.

Roller equation; Boric acid; Equivalence point; Inflection point; 11388. SP305-2.

Rolling; Ships; Steel; Welding; Alloying; Inclusions; Low temperature; 16145. SP305-8.

Rolling load; Surface evenness; Test methods; Warmth to touch; Colour fastness, Flatness; Flooring; Indentation; Performance requirements; Properties; Quality classes; SP361, Vol. 1, pp. 601-612. SP305-4.

Roof; Washington Cathedral; Cathedral; Deformation; Lead; 12678. SP305-4.

Roof; Washington Cathedral; "1921"; Cathedral; Deformation; Lead; 12377. SP305-3.

Roof behavior; Roofing; Bituminous; Cost; Durability; Performance; SP361, Vol. 1, pp. 777-787. SP305-4.

Roof projections; Static pressures; Wind effects; Wind tunnel modeling; Architectural features; Buildings; Mullions; Parapets; BSS30, pp. 73-86. SP305-3.

Roof/ceiling assembly; Structural panel; Fire endurance; Fire test; Flame-through failure, structural panel; Glass-fabric reinforced plastic; Housing systems; Operation BREAKTHROUGH; Paper honeycomb; 13408. SP305-5.

Roof/ceiling assembly; Structural sandwich panel; Exterior wall; Fire endurance; Fire test; Housing systems; Operation BREAKTHROUGH; Paper honeycomb; 13394. SP305-5.

Roofing; Bituminous; Cost; Durability; Performance; Roof behavior; SP361, Vol. 1, pp. 777-787. SP305-4.

Roofing; Durability; Fire safety; Performance guidelines; Protective coatings; Rigid polyurethane; TN778. SP305-5.

Roofing; Saturation; Absorption; Asphalts; Felts; Moisture; BSS19. SP305-1.

Roofing; Shingles; Storm damage; Asphalt shingles; Built-up roofing; Hail; BSS23. SP305-1.

Roofing; Solar heating; Surface temperature; Built-up roofing; Insulation; Performance; Radiative cooling; NBSIR 76-987. SP305-8.

Roofing; Temperature effects; Tensile fatigue; Test methods; Bituminous roof membranes; Fatigue testing; Flexural fatigue performance criteria; TN863. SP305-7.

Roofing, built-up; Deterioration; Insulation; Radiative cooling; 9172. SP305.

Roofing membrane; Strength properties; Thermally induced forces; Thermal-shock resistance factor; Development; 12305. SP305.

Roofing membrane; Strength properties; Thermally induced forces; Thermal-Shock Resistance Factor; Development; 9651. SP305-1.

Roofing membrane; Strength properties; Thermally induced forces; Thermal-shock resistance factor; Development; 10332. SP305-1.

Roofing membranes; Viscosity; Application temperature; Asphalt; Built-up roofing; Interply thickness; BSS92. SP305-8.

Roofing research; Solar heating; Liquid-applied coatings; Membrane movements; Prefabricated sheets; Radiative cooling; 9432. SP305.

Roofing systems; Tooth decay; Disaster losses; Energy systems; Flammable fabrics (FFACTS); Metric; Nuclear activation analysis; TNB 57, No. 5, 101-128 (1973). SP305-5.

Roofs; Siding; Structural engineering; Wind; Wind damage; Wind engineering; Building codes; Design standards; Masonry construction; TN909. SP305-8.

Roofs; Standardization; Test methods; Walls; Building construction; Complete buildings; Floors; BSS58. SP305-6.

Roofs; Structural engineering; Tides; Wind; Buildings; Failure; Hurricanes; Mobile homes; TN569. SP305-3.

Roofs; Structural engineering; Wind load; Anchorage; Building performance; Glazing; Hailstones; Masonry; Mobile homes; TN558. SP305-3.

Room acoustics; Sound power; Acoustic modelling; Acoustic impact noise; Noise; Reverberation rooms; 16433. SP305-8.

Room acoustics theory; Sound fields; Acoustical energy density; Acoustics; Diffuse sound fields; Reflection and interference of sound; 16318. SP305-8.

Room air conditioners; Energy efficient products; Experimentation; Technology Incentives Program; Life cycle costing; Performance experiments; NBS-GCR-ETIP 76-13. SP305-8.

Room air conditioners; Water heaters; Combination refrigerator-freezers; Consumer information; Efficiency; Energy labeling; 15888. SP305-8.

Room air conditioning; Consumer information; Efficiency; Energy; Label; Refrigerator/freezers; 15451. SP305-7.

Room corner tests; Smoke; Buildings; Fire growth; Fire spread; Heat release; Interior finish; Reduced scale models; 16183. SP305-8.

Room fires; Carpet systems; Carpets; Fire safety; Flame spread; Floor coverings; Flooring radiant panel test; Ignition source; Pill test; NBSIR 76-1013. SP305-8.

Room fires; Fire; Fire plume gas flow; 16112. SP305-8.

Room fires; Fire tests; Flame spread; Flames; Fire growth; Fire growth; Reduced scale models; NBSIR 76-1052. SP305-8.

Room fires; Scale models; Thermal radiation; Fire growth; Fire tests; Flashover; NBSIR 75-710. SP305-7.

Room fires; Smoke; Upholstery; Waste receptacle; Wood; Buildings; Fire intensity; Flame spread; Flames; Furnishings; Heat release; Interior linings; Material ignitability; SF 125-138. SP305-6.

Room fires; Smoke; Wood crib; Buildings; Fire growth; Fire spread; Heat release; Interior linings; Material ignitability; Performance criteria; TN846. SP305-6.

Room fires; Smoke; Wood crib; Buildings; Fire growth; Fire spread; Heat release; Interior linings; Material ignitability; Performance criteria; TN879. SP305-7.

Room furnishings; Smoke production; Smoke tests; Building materials; Fires; Optical density; 16557. SP305-8.

Temperature; Thermal environment; ASHRAE Task Group Energy Requirements; Computer application; Heating/cooling load; *SP361, Vol. 1*, pp. 407-418. **SP305-4.**

Temperature; Ultra-high vacuum; Water vapor; Work function; Adsorption; Hydrogen evolution; Polycrystalline tungsten; *11563. SP305-2.*

Temperature; 1,4-dioxane; Kinetics; Mechanism; Organic compound; Oxidative degradation; Peroxy radical isomerization; Poly(ethylene oxide); Polymer; Polypropylene; Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; *SP357*, pp. 85-92. **SP305-4.**

Temperature detector; Infrared; Pyroelectric; *12726. SP305-4.*

Thiessen-Sturm theorem; Budan theorem; Exact computation; Integer arithmetic; Modular arithmetic; Polynomial; Polynomial roots; *J.78B No. 1, 39-43 (1974). SP305-6.*

Units of unity; Algebraic numbers; Conjugates; *J. Res. 80B No. 1-4 (1976). SP305-8.*

Units of unity; Automorphisms; Cyclotomic fields; Diophantine equations; *11411. SP305-2.*

Units of unity; Cyclotomic units; Diophantine equations; *1469. SP305-4.*

Units of unity; Free groups; Matrix groups; *J.78B No. 2, 69-74 (1974). SP305-6.*

Units of unity; Schur matrix; Compounds; Induced matrices; Kronecker powers; *15955. SP305-8.*

Urethane, aramid-fiber; Slings, cargo; Terminations, rope; Weathering, simulated; Aramid fiber rope; Breaking load, rope; Flexible, aramid-fiber; End fittings, rope; Fatigue damage; *BSIR 76-1159. SP305-8.*

Urethane, GRP; Static fatigue of GRP; Aeolian vibration, simulated; Composite materials; End fittings for GRP rod and rope; Grips, guy; Guys, antenna; Humidity, effects on GRP; Mechanical properties of GRP; Pultruded rod; *13392. SP305-8.*

Van Brock cursor; Step response; Transmission line; Digital computer program; Distributed networks; Inverse Laplace transformation; Lumped networks; *J.73B No. 2, 163-176 (1969). SP305-1.*

Variable area meter; Variable area meter; Coefficients of discharge; Expansion factor; Flow coefficients; Flowmeter; Fluid meter coefficients; *14795. SP305-7.*

Vapor diffusion; Dielectric measurements; Dilute benzene solution; Polybutylisocyanate; *10143. SP305-1.*

Vibrating switches; Vibrating-reed electrometer; Remote positioner; *9471. SP305.*

Vibrating transmission method; Selection rules;  $\text{SrTiO}_3$ ; Uniaxial stress; Absorption edge; Dichroism; *10942. SP305-2.*

Vane; Attenuator; Microwave; Precision; *J.75C No. 1, 105 (1971). SP305-3.*

Vane; Spirodi (Reg. T.M.); Attenuator; Microwave; *901. SP305-4.*

Vane attenuator; Attenuation; Circuit; *10830. SP305-1.*

Vane attenuator; Attenuation; Interlaboratory standard; Measurement; *Monogr. 144. SP305-7.*

Vane attenuator; Attenuation measurement; Microwave; *642. SP305-2.*

Vane attenuator; Attenuator; Attenuation difference; Attenuation error; Misaligned stator; *10254. SP305-1.*

Vane attenuator; Series substitution; Attenuation; Measurement; *TN647. SP305-6.*

Vibrable document bin array; Seat belt webbing abrasion; Corrosion resistance testing; Automatic document distribution; Flexible tubing pump; Inverting amplifiers; Laser beam phase shift; Laser heterodyning; Liquid metering pump; Optical refractive index; *TN437. SP305.*

Rotating capillary cell; Solvents for phosphorimetry; Aqueous solvents in phosphorimetry; Phosphorimetry; *SP378*, pp. 169-172. **SP305-5.**

Rotating capillary cell; Solvents for phosphorimetry; Aqueous solvents in phosphorimetry; Phosphorimetry; *J.76A No. 6, 579-592 (1972). SP305-4.*

Rotating cylinder; Standard reference material; Viscosity; Viscosity standard; Beam-bending; Borosilicate glass; Glass viscosity; Parallel-plate; *SP260-23. SP305-2.*

Rotating cylinders; Standard; Standard reference material; Viscosity; Viscosity standard; Beam bending; Fiber elongation; Glass; Glass standard; Glass viscosity; Lead-silica glass; Restrained sphere; *M260-11. SP305.*

Rotating disks; Singular perturbations; Turning-point; Viscous flow; Weber's equation; Boundary-value problem; Eigenvalues; Parabolic cylinder functions; Resonance; *16459. SP305-8.*

Rotating electrode voltammetry; Semiconductor electrode; Flat band potential; Hydrogen evolution; Oxide electrode; Perovskite surface composition; *SP455*, pp. 229-240 (Nov. 1976). **SP305-8.**

Rotating fluids; Stratified fluids; Waves in fluids; Buoyant flows; Geophysical fluid flows; Inertial waves; Internal waves; *J. Res. 80B No. 3, 353-402 (1976). SP305-8.*

Rotating probe devices; Slotted lines; Survey of automatic techniques; Swept frequency measurements; Wheatstone Bridge; Automatic network analyzers; Computer-controlled measurement; Magic tee; Microwave measurement methods; Multiple probe devices; Reflectometers; *Monogr. 151. SP305-8.*

Rotating reference frame; Acceleration measurement; Fundamental constant; Gravitational attraction; Gravitational constant; *16222. SP305-8.*

Rotation; Acetylene; CH; Chemiluminescence; Cross section; Emission spectrum; Energy transfer; Experimental; Gas; Oxygen atom; Oxidation; Population distribution; *9288. SP305.*

Rotation; Axis and angle of rotation; Coordinate inversion; Coordinate reflection; Improper rotation; Matrices; Orthogonal transformations; Proper rotations; Rigid rotations; *J.73B No. 2, 125-138 (1969). SP305-1.*

Rotation; Matrices; Orthogonal transformations; *J.72B No. 3, 229-237 (1968). SP305-1.*

Rotation; Rotation group; Rotation-inversion; Conjugacy; Conjugacy theorem; Conjugate rotations; Matrices; Orthogonal group; Orthogonal transformations; *J.73B No. 2, 139-141 (1969). SP305-1.*

Rotation; Rotation matrix; Secular equation; Trace equation; Trace formula; Closed form of rotation matrix; Orthogonal transformation; *J.73B No. 3, 215-223 (1969). SP305-1.*

Rotation; Spectroscopy; Crystal dynamics; Crystallography; Crystal structure; Inorganic; Molecular solid; Organic; Polymers; *10417. SP305-1.*

Rotation; Spectroscopy; Vibration; Crystal; Crystal structure; Diffraction; Lattice dynamics; Molecular dynamics; Molecular solid; *SP301. SP305-1.*

Rotation; Spectrum; Ultraviolet; Vacuum ultraviolet; Free radical; Infrared; Matrix isolation; Methyl; Methylene; Photolysis; *10404. SP305-1.*

Rotation; Thiourea; Urea; Ferroelectric; Libration; Molecular vibrations; Neutron spectra; Phase transitions; Potential barrier; *10425. SP305-1.*

Rotation group; Rotation-inversion; Conjugacy; Conjugacy theorem; Conjugate rotations; Matrices; Orthogonal group; Orthogonal transformations; Rotation; *J.73B No. 2, 139-141 (1969). SP305-1.*

Rotation group; Spatial rotation; Angular velocity; Effective axis and angle of rotation; Intrinsic vector; Kinematics of a rigid body; *J.75B, Nos. 3 and 4, 179-186 (1971). SP305-3.*

Rotation in matrices; Vibrational spectra; Atomic spectra; Electronic spectra; Free radicals; High-temperature species; Matrix isolation; Molecular ions; Reactive molecules; *13422. SP305-5.*

- Rotation matrix; Secular equation; Trace equation; Trace formula; Closed form of rotation matrix; Orthogonal transformation; Rotation; *J.73B No. 3, 215-223 (1969)*. SP305-1.
- Rotation of the earth; Coordinated Universal Time; Offset frequency; Predictions; *10310*. SP305-1.
- Rotation of the earth; Westward drift; Core-mantle coupling; Decade fluctuations; Dynamo theory; Earth's core; Geomagnetism; *TN358*. SP305.
- Rotational; Spherical molecules; Diffusion; Light scattering; Neutron scattering; Plastic crystal; *11953*. SP305-3.
- Rotational; Structure; Butadiene; Isomerism; Microwave spectroscopy; Propionaldehyde; *9894*. SP305-1.
- Rotational analysis; Rotational perturbations; Absorption spectrum; Carbon monoxide; Electronic spectrum; Forbidden transition; *14314*. SP305-6.
- Rotational analysis; Vacuum ultraviolet region; Carbon monoxide; Diatomic spectrum; Molecular constants; Perturbations; *11130*. SP305-2.
- Rotational analysis; Vacuum-ultraviolet region; Absorption spectrum; CO; Diatomic spectrum; Electronic transition; *9403*. SP305.
- Rotational analysis; Vibrational analysis;  $\pi\Pi$  state; CO; Electronic spectra; *13691*. SP305-5.
- Rotational analysis; Vibrational analysis; Vibrational and rotational constants; Absorption spectrum; CO; Electronic transitions; *J.75A No. 5, 455-467 (1971)*. SP305-3.
- Rotational analysis; Zeeman spectrum; Asymmetric rotors; Doublet states;  $\text{HO}_2$ ; Laser magnetic resonance; Least squares fit; *14910*. SP305-7.
- Rotational and vibrational constants; Absorption spectra; Carbon monoxide; Electronic transitions; Identification atlas; Potential energy curves; *J. Phys. Chem. Ref. Data 1, No. 1, 147-188 (1972)*. SP305-6.
- Rotational assignment; Spin-rotation splittings; Band center; Intensities; Laser magnetic resonance; Nitrogen dioxide; *15788*. SP305-8.
- Rotational band; Samarium-152; Charge distribution; Deformation parameters; Electron scattering; High-energy electrons; *13166*. SP305-5.
- Rotational band spectrum; Accurate wavelength measurements; Laser; Molecular nitrogen pulsed laser; Nitrogen molecule; Nitrogen pulsed laser; Pulsed laser emission; *9828*. SP305-1.
- Rotational constant; Spectral lines; Barrier height; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; Hindered rotation; Internal rotation; Microwave spectra; Molecular spectra; Polyatomic molecules; *Monogr. 70, Volume III*. SP305-1.
- Rotational constant; Spectral lines; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; L-doubling; Microwave spectra; Molecular spectra; Polyatomic molecules; Quadrupole coupling constants; *Monogr. 70, Volume IV*. SP305-1.
- Rotational constant; Structure; Vibrational frequency; Dipole moment; Ethynyl difluoroborane; Microwave spectrum; *14366*. SP305-6.
- Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands; molecular; Energy levels, atomic; Line shapes, atomic; Molecular bands; Molecular spectra; *13285*. SP305-5.
- Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands; molecular; Energy levels, atomic; Line shapes, atomic; Molecular bands; Molecular spectra; *14100*. SP305-6.
- Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands; molecular; Energy levels, atomic; Line shapes, atomic; Molecular bands; Molecular spectra; *15260*. SP305-7.
- Rotational constants; Atomic energy levels; Atomic line shapes; Atomic spectra; Atomic transition probabilities; Bands; molecular; Energy levels, atomic; Line shapes, atomic; Molecular bands; Molecular spectra; *15901*. SP305-8.
- Rotational constants; Bond angles; Boron-boron bond length; Boron hydrogen bond lengths; Diborane; High resolution; Infrared spectrum; Molecular structure; *11640*. SP305-2.
- Rotational constants; Cyanocyclobutane; Dipole moment; Microwave spectrum; Molecular structure; Ring conformation; *14282*. SP305-6.
- Rotational constants; Cyclopentene oxide; Dipole moment; Epoxy cyclopentene; Microwave spectrum; Ring conformation; *11970*. SP305-3.
- Rotational constants; Difluoroborane; Dipole moment; Microwave spectra; Molecular structure; Quadrupole coupling constants; *10486*. SP305-1.
- Rotational constants; Dipole moment; Gas phase pyrazole; Microwave spectrum; Pyrazole; *9846*. SP305-1.
- Rotational constants; Forbidden transitions; Ground state splitting; Infrared spectrum; Perturbation allowed transitions; Phosphine; *13505*. SP305-5.
- Rotational constants; Ground vibrational state; Microwave spectrum of hexafluoropropene; *13909*. SP305-6.
- Rotational constants; Quadrupole; Spectra; Bond distances; High temperature; Microwave;  $\text{RbOH}$ ; *11217*. SP305-2.
- Rotational constants; Rotational spectra; Centrifugal distortion constants;  $\text{D}_2^{17}\text{O}$ ;  $\text{D}_2^{18}\text{O}$ ; Quadrupole coupling constants; *13654*. SP305-5.
- Rotational constants; Rotational spectral lines; Diatomic molecules; Dipole moments; Hyperfine structure; Infrared; Nuclear distance; Molecular spectra; *J. Phys. Chem. Ref. Data 3, No. 3, 609-770 (1974)*. SP305-6.
- Rotational constants; Short lived molecule; Spectrum; Thioaldehyde; High resolution; Infrared; *12500*. SP305-4.
- Rotational constants; Spectra; Bond distances; Hydrogen cyanide; Infrared; Microwave; Molecular structure; *123*. SP305-3.
- Rotational constants; Spectral assignments; Spin splitting; Zeeman spectrum; Asymmetric rotor levels;  $\text{HO}_2$ ; Laser magnetic resonance; *15067*. SP305-7.
- Rotational constants; Spectroscopic constants; Spin-rotation constants; Infrared spectrum; Nitrogen dioxide,  $\nu_2$  band; Nitrogen dioxide,  $\nu_2 + \nu_2 - \nu_2$  band; *15753*. SP305-8.
- Rotational constants; Spectrum; Vibration-rotation; Dimethylacetylene; Internal rotation; *12170*. SP305-3.
- Rotational constants; Stratospheric chemistry; Atmospheric pollution; Chlorine nitrate; Dipole moment; Microwave spectrum; Ozone depletion; *16584*. SP305-8.
- Rotational constants; Stretching vibrations; Infrared spectrum; Monodeuteriosilane; Perturbation allowed transitions; *136*. SP305-5.
- Rotational constants; Symmetric top; Infrared; Molecular geometry; Monodeuterioethane; Perturbations; *1316*. SP305-5.
- Rotational constants; Triatomic molecules; Vibration-rotation; Hamiltonian; Double-minimum potentials; Large-amplitude vibrations; Linear molecules; *13146*. SP305-5.
- Rotational constants; Unperturbed vibrational frequencies; Vibrational spectrum; Fermi resonance; Infrared spectrum; Microwave spectrum; *9873*. SP305-1.
- Rotational constants; Vibrational constants; Absorption; Energy levels; Gas laser;  $\text{HCH}$ , hydrogen cyanide; Infrared; Spectra; *12044*. SP305-3.
- Rotational constants; 3,6-Dioxabicyclo[3.1.0]hexane; Boat conformation; Dipole moment; Microwave spectrum; Ring conformation; *13618*. SP305-5.
- Rotational correlation times; Carbon-13 relaxation times; Configuration; Configurational entropy; Correlation times; Elastic properties; Elastin; Ligamentum nuchae; *14474*. SP305-6.
- Rotational diffusion; Rotator phase; N-Alkanes; N-nonadecane; Neutron inelastic scattering; Phase transition; *13488*. SP305-5.



- ational diffusion; Spherical-top molecules; Angular relaxation;  $\text{ClO}_2\text{F}$ ; Magnetic resonance; Relaxation times; 12195. SP305-3.
- ational diffusion; Spin-rotation; Angular momentum relaxation; Collision numbers; Liquids; NMR relaxation; 14113. SP305-6.
- ational diffusion;  $^{13}\text{C}$  magnetic resonance; Collagen; Conformation; Correlation times; Cyanogen bromide peptides; Olypeptides; Relaxation times; 16211. SP305-8.
- ational disorder; Single crystal; Alkali cyanides; Crystal namic; Dispersion curves; Orientation; Phonons; 15124. SP305-7.
- ational energy; Enthalpy of formation; Ketene; Methane; ethyl; Methylene; Photoionization; 16060. SP305-8.
- ational excitation; Close coupling calculation; Differential cross sections; Elastic scattering; Electron;  $\text{H}_2$  (hydrogen molecule); 12163. SP305-3.
- ational excitation; Diatomic molecules; Electron scattering; Rigid rotor; 10289. SP305-1.
- ational excitation; Scattering theory; Sudden approximation; Differential cross sections; Elastic scattering; Electron scattering; Hydrogen molecules; Momentum transfer; 15761. SP305-8.
- ational excitation; Scattering theory; Sudden approximation; Close coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Momentum transfer; Nitrogen molecules; 15951. SP305-8.
- ational excitation; Scattering theory; Close-coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Exchange (of electrons); Hydrogen molecules; Inelastic scattering; Momentum transfer; Polarization (of charge clouds); 16532. SP305-8.
- ational excitation; Scattering theory; Close coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Momentum transfer; Nitrogen molecules; 16618. SP305-8.
- ational excitation; Slow electrons; Electrons; Electron spin; Molecular rotation; Nonvanishing electron spin; 9737. SP305-
- ational frequency; Laser line; Laser magnetic resonance spectrum; Magnetic resonance spectrum; Resonance spectrum; 15988. SP305-8.
- ational frequency response; Transducer; Accelerometer; Air arings; Calibrator accelerometer; Dynamic; Earth's field; er-Agency Transducer Project; Low frequency; 13099. SP305-5.
- ational frequency response; Transducer; Accelerometer; Air arings; Calibrator accelerometer; Dynamic; Earth's field; er-Agency transducer project; Low frequency; TN517. SP305-2.
- ational isomerism; *n*-alkanes; Raman spectroscopy; Rotator ase; 12827. SP305-4.
- ational level; Vibrational state; 337-micron CN laser; Laser; adiation; 9163. SP305.
- ational levels; Computer tabulation; Ground vibrational ate; Hyperfine splittings; Methane; Quantum mechanical imiltonian; 13682. SP305-5.
- ational levels;  $\text{HgAr}^+$ ; Hund's case (c);  $\Omega$ -type doubling; 790. SP305-4.
- ational levels; Rotational line intensities; Theoretical calculations; Diatomic molecules; Hund's coupling cases; *Monogr.* 5. SP305-2.
- ational line intensities; Singlet-triplet transitions; Spin forbidden transitions; Transition calculations; Asymmetric ros; Matrix elements; 12313. SP305-3.
- ational line intensities; Theoretical calculations; Diatomic molecules; Hund's coupling cases; Rotational levels; *Monogr.* 5. SP305-2.
- Rotational perturbations; Absorption spectrum; Carbon monoxide; Electronic spectrum; Forbidden transition; Rotational analysis; 14314. SP305-6.
- Rotational potentials; Spin-lattice relaxation; Alkanes; Carbon-13; Magnetic resonance; Molecular motion; Polyethylene; 14077. SP305-6.
- Rotational quantum numbers; Spectral lines; Diatomic molecules; Hyperfine; Microwave spectra; Molecular spectra; Polyatomic molecules; *Monogr.* 70, Volume V. SP305-1.
- Rotational spectra; Applications; Chemical analysis; Microwave; Qualitative analysis; Quantitative analysis; 15261. SP305-7.
- Rotational spectra; Applications; Chemical analysis; Microwave; Qualitative analysis; Quantitative analysis; 15625. SP305-7.
- Rotational spectra; Centrifugal distortion constants;  $\text{D}_2^{16}\text{O}$ ;  $\text{D}_2^{18}\text{O}$ ; Quadrupole coupling constants; Rotational constants; 13654. SP305-5.
- Rotational spectra; Interacting molecular pairs; Low frequency; Microwave absorption; 10686. SP305-1.
- Rotational spectra; Spectra, rotational; Spectroscopy, microwave; Chemical analysis; Microwave spectroscopy; Microwave studies; Molecular structure; 9893. SP305-1.
- Rotational spectra; Thioformaldehyde; Structure; Dipole moment; Microwave spectrum; Reactive species; 12325. SP305-3.
- Rotational spectra; Transient species;  $\text{BrO}$ ; Free radical; Magnetic hyperfine; Microwave spectrum; 12669. SP305-4.
- Rotational spectral lines; Diatomic molecules; Dipole moments; Hyperfine structure; Internuclear distance; Molecular spectra; Rotational constants; *J. Phys. Chem. Ref. Data* 3, No. 3, 609-770 (1974). SP305-6.
- Rotational spectrum; Centrifugal distortion; Dipole moment; Microwave spectrum; Molecular structure; Sulfur monoxide dimer; 14434. SP305-6.
- Rotational spectrum; Dipole moment; Ethynyldifluoroborane; Microwave spectrum; Molecular structure; Stark effect; 12328. SP305-3.
- Rotational spectrum; Formyl ion; Interstellar molecules; Microwave emission; Molecular structure; Radio astronomy; 16560. SP305-8.
- Rotational spectrum; Silacyclobutane; Vibrational potential functions; Vibration-rotation interaction; Dipole moment; Molecular structure; Ring puckering vibration; 12932. SP305-4.
- Rotational spectrum; Spectroscopic constants; Critical review; Electronic spectrum; Molecular oxygen; Potential energy curves; *J. Phys. Chem. Ref. Data* 1, No. 2, 423-534 (1972). SP305-6.
- Rotational spectrum; Structure; Vinylamine; Dipole moment; Ethylamine; Pyrolysis reactions; 12558. SP305-7.
- Rotational spectrum; Sulfur difluoride; Molecular structure; Dipole moment; Electrical discharge; Microwave spectroscopy; 14355. SP305-6.
- Rotational spectrum; Thioformaldehyde; Astronomically important; Electrical discharge; Interstellar medium; Microwave spectroscopy; 11965. SP305-3.
- Rotational spectrum; Transformation coefficients; Angular momentum; Asymmetric rotor; Eigenfunction; Microwave spectra; *NSRDS-NBS12*. SP305-1.
- Rotational states; Nuclear levels; Nuclear rotation; Nuclear spectroscopy; Nuclear structure; Quantum mechanical precession; 9656. SP305-1.
- Rotational states; Vibrational states; Collective correlations; Four particle-four hole states; Light nuclei; Quartets; 12146. SP305-3.
- Rotational structure; Zeeman; Effect; Laser; Magnetic resonance; Oxygen; 15335. SP305-7.

- Rotational transition; Astrophysical; Emission; Galactic distribution of isotopes;  $\text{H}_2^{18}\text{O}$ ; Microwave absorption; 11651. SP305-2.
- Rotational transition thioformaldehyde; Centrifugal distortion; Interstellar molecule; Millimeter wave spectra; 13245. SP305-5.
- Rotational transitions; Acetaldehyde; Internal rotation; Interstellar molecules; Microwave spectrum; Radio astronomy; *JPCRD* 5, No. 1, 53-78 (1976). SP305-8.
- Rotational transitions; Amino difluoroborane; Dipole moment; Gas-phase reaction; Microwave spectrum; Molecular structure; 13841. SP305-6.
- Rotational transitions; Cyanoacetylene; Hyperfine structure; Interstellar microwave emission; Laboratory microwave spectrum; Radio astronomy; 12501. SP305-4.
- Rotational transitions; Hydrogen sulfide; Hyperfine structure; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; *J. Phys. Chem. Ref. Data* 2, No. 2, 215-223 (1973). SP305-6.
- Rotational transitions; Hyperfine structure; Interstellar molecules; Methyleneimine; Microwave spectra; Molecular parameters; Radio astronomy; *J. Phys. Chem. Ref. Data* 2, No. 1, 1-10 (1973). SP305-6.
- Rotational transitions; Maser; M-type stars; Molecular emission, Orion Nebula; Silicon monoxide; 15210. SP305-7.
- Rotational transitions; Radio astronomy; Isocyanic acid; Interstellar molecules; Microwave spectra; Molecular parameters; *JPCRD* 5, No. 1, 79-102 (1976). SP305-8.
- Rotational transitions; Silicon monoxide; Carbon monosulfide; Carbon monoxide; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; *J. Phys. Chem. Ref. Data* 3, No. 1, 245-257 (1974). SP305-6.
- Rotational transitions; Silicon sulfide; Spectra; Interstellar molecules; Microwave spectra; Radio astronomy; *JPCRD* 5, No. 4, 1147-1156 (1976). SP305-8.
- Rotational transitions; Spectra; Bond distances; Carbonyl sulfide; Microwave spectra; Molecular parameters; 13653. SP305-5.
- Rotational transitions; Spectra; Carbonyl sulfide; Hydrogen cyanide; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; *J. Phys. Chem. Ref. Data* 3, No. 1, 221-244 (1974). SP305-6.
- Rotational transitions; Spectra; Sulfur monoxide; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; *J. Phys. Chem. Ref. Data* 3, No. 1, 259-268 (1974). SP305-6.
- Rotational transitions; Stark effect; Chlorine monoxide; Free radical; Hyperfine structure; Microwave spectrum; 10816. SP305-1.
- Rotational transitions; Stark effect; Vibrational states; Allene; E vibrational state; Microwave spectrum; 11035. SP305-2.
- Rotational transitions; Sulfur monoxide; Born-Oppenheimer approximation; Isotopic effects; Microwave spectra; Molecular parameters; 14497. SP305-6.
- Rotational transitions; Telescope search; Fulvene; Interstellar molecules; Nitric acid; Radio astronomy; 14403. SP305-6.
- Rotational transitions; Thioformaldehyde; Formaldehyde; Formamide; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; *J. Phys. Chem. Ref. Data* 1, No. 4, 1011-1046 (1972). SP305-6.
- Rotational transitions; Torsion; Internal rotation; Interstellar molecules; Methanol; Microwave spectra; Molecular parameters; Radio astronomy; *J. Phys. Chem. Ref. Data* 2, No. 2, 205-214 (1973). SP305-6.
- Rotational transitions; Transient species; Methyleneimine; Microwave spectrum; Pyrolysis; Quadrupole structure; 13066. SP305-5.
- Rotational transitions; Transient species; Boron monofluoride; Dipole moment; Discharge; Microwave spectrum; Quadrupole structure; 14382. SP305-6.
- Rotational transitions; Water; Hyperfine structure; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; *J. Phys. Chem. Ref. Data* 3, No. 1, 211- (1974). SP305-6.
- Rotational transitions; Weighted fit; Astrophysical internal centrifugal distortion; Formamide; Microwave spectra; Quadrupole splittings; 13218. SP305-5.
- Rotation-inversion; Conjugacy; Conjugacy theorem; Conjugate rotations; Matrices; Orthogonal group; Orthogonal transformations; Rotation; Rotation group; *J.73B* No. 2, 139- (1969). SP305-1.
- Rotations;  $\text{SU}(6) \times \text{O}(3)$ ; Baryons; Configuration mixing; Hyperons; Resonances; 11912. SP305-3.
- Rotation-vibration interaction; Vibrational matrix elements; Hydrogen; Intensity; Quadrupole spectrum; 9805. SP305-1.
- Rotation-vibration interactions; Band strength; Franck-Condon factor; Nitrogen; 11125. SP305-2.
- Rotation-vibration spectra; Semiclassical  $S$ -matrix; Spectral broadening; *ab initio* potentials; Atom-molecule interaction; Curved classical trajectories; HCl, CO,  $\text{CO}_2$  with He, 16528. SP305-8.
- Rotator phase; Molecular dynamics;  $n$ -alkanes;  $n$ -nonadecane; Neutron scattering; Paraffin; 13656. SP305-5.
- Rotator phase;  $N$ -Alkanes;  $N$ -nonadecane; Neutron inelastic scattering; Phase transition; Rotational diffusion; 134. SP305-5.
- Rotator phase; Rotational isomerism;  $n$ -alkanes; Raman spectroscopy; 12827. SP305-4.
- Rotator phase; Wide-line NMR; Molecular rotation; Nuclear second moment;  $n$ -nonadecane; Paraffin; 14018. SP305-6.
- Rotatory lattice modes;  $n$ -alkanes; Polyethylene; Raman spectroscopy; 16218. SP305-8.
- Roton minimum;  $^3\text{He}$   $^4\text{He}$  solutions; Lifetime of excitations; Neutron scattering; Perturbation of elementary excitations; Quantum liquids; 15263. SP305-7.
- Rotor deceleration; Sedimentation; Centrifuge; Equilibrium sedimentation; Lamm equation; 9584. SP305-1.
- Rotor deceleration; Ultracentrifugation; Equilibrium sedimentation; Lamm equation; 10509. SP305-1.
- Rotor slowing; Sedimentation equilibrium; Ultracentrifugation; Lamm equation; Molecular weight; Numerical solution; 10508. SP305-1.
- Rough surfaces; Ellipsometry; Index of refraction; Light reflection; Optical properties; 11303. SP305-2.
- Roughness; Arithmetic Average roughness; Cali-Block; Calibration; *J.76C* Nos. 1 and 2, 21-33 (1972). SP305-4.
- Roughness; Scattering theory; Absorbance; Alumina; Ceramic Emissivity; Emission; Optical; Reflectance; 10016. SP305-1.
- Roughness; Substrate; Surface; Thick film; Thin film; Waviness; Camber; Ceramic; Fired; Flatness; Ground; Lapped; Microwave; Polished; SP348, pp. 293-300. SP305-4.
- Roughness; Surface damage; Thin films; Threshold; Damage threshold; Etching; Flame polishing; Fused silica; Hydroxyl ion polishing; Polishing; SP462, pp. 310-314 (Dec. 1970). SP305-8.
- Roughness; Surfaces; Computer simulation; Crystal growth; F crystals; 15144. SP305-7.
- Roughness; Transition; Hot-wire anemometry; Instability; Laminar boundary layer; 9847. SP305-1.
- Roughness; Two-dimensional; Stability; Transition; Boundary layer; 12807. SP305-4.
- Round off; Computer program; Metric conversion; 1540. SP305-7.
- Round robin; Single classification; Statistics; Variance components; Weighting; Analysis of variance; Averaging (weighted); Interlaboratory evaluation; 11906. SP305-3.
- Round robin; Smoke; Smoke density chamber; Statistical analysis; Building materials; Fire tests; Interlaboratory tests; Optical density; TN708. SP305-3.

and robin; Statistical analysis; Test method standard; ASTM 84; Building materials; Carpets; Fire tests; Flame spread tests; Interlaboratory evaluation; *13530*. SP305-5.

and robin; X-ray fluorescence; Accuracy; Anodic stripping; Fluorimetry; Arc emission spectroscopy; Atomic absorption; Environmental analyses; Interlaboratory tests; Neutron activation analysis; Plasma emission; *SP422*, pp. 199-210 (Aug. 1976). SP305-8.

and robin tests; Seacoast atmosphere; Standard; Stress-corrosion; 3.5 percent NaCl; 7XXX aluminum alloys; Aluminum association; ASTM; Industrial atmosphere; *16656*. SP305-8.

and wire; Testing (wire bond); Ultrasonic bonding; Wire bond; Aluminum wire; Bonding; Fabrication (wire bonds); Microelectronics; Ribbon wire; *TN767*. SP305-5.

and; Test problem; Tolerance; Caterpillar Tractor Co.; Computer program; Documentation; Engineering drawing; General Motors Corporation; Metric conversion; *TN872*. SP305-7.

and error; Stepwise regression; Computer programs; Curve fitting; Gram-Schmidt orthogonalization; Householder transformations; Iterative refinement; Least squares; Linear equations; Orthogonalization; Orthogonal polynomials; Regression; *12184*. SP305-3.

and error; Stepwise regression; Computer programs; Gram-Schmidt orthogonalization; Householder transformations; Least squares; Linear equations; Orthogonalization; Orthogonal polynomials; Regression; *J.73B* No. 2, 59-90 (1969). SP305-1.

and error; Stepwise regression; Computer programs; Curve fitting; Gram-Schmidt orthogonalization; Householder transformations; Iterative refinement; Least squares; Linear equations; Orthogonalization; Orthogonal polynomials; Regression; *11522*. SP305-2.

and errors; Statistics; Analysis of variance; Computer programs; Gram-Schmidt orthogonalization; Householder transformations; Ill-conditioned test problems; Iterative refinement; Least squares computations; Linear equations; OM-TAB; Regression; *13981*. SP305-6.

and-off; Evaluation; Newton form; Polynomial; Relative error; *J.71B1-191*, 11-17 (1967). SP305.

and-robin experiments; Trace element analysis; Accuracy; Activation analysis; Air filter analysis; Analytical quality control; Atomic absorption spectrometry; Environmental analysis; Fresh water analysis; Intercomparisons; Precision; *SP422*, 189-197 (Aug. 1976). SP305-8.

and theory; Solution properties; Viscoelasticity; Bead-spring model; Block copolymers; Concentrated solutions; Dynamics; *1590*. SP305-7.

and-Hurwitz conditions; Sign stable; Sign symmetric; Stability; Tridiagonal; Diagonally dominant; Diagonal matrix; *D*-stability; Gersgorin's theorem; Lyapunov's theorem; *M*-matrix; Oscillatory; Positive definite; Principal minor; *14782*. SP305-

line methods; Secondary reference materials; Standard reference materials; Definitive method; Matrix reference materials; Pure reference materials; Reference methods; *1104*. SP305-8.

ing in a network; Containers; Inventory; Network flows; Optimal container routing; Optimal routing; *13282*. SP305-5.

onic symmetry species; Selection rules; Tetrahedral point group; Group theory; Methane; *14138*. SP305-6.

nucleus; Shishkebab; Sonicated solution; Spinning; Stirred solution; Crystallization; Cyndrite; Drawing of swollen polymer solid; Epitaxial overgrowth; Extrusion; Hard elastomer; Nucleation; Oriented melt; Rheological unites; *274*. SP305-8.

stochastic matrix; Non-negative row-stochastic matrix; Permanent inequality; *10252*. SP305-1.

tricle Ursell functions; Stochastic process; Eigenvalue spectrum; Initial correlation; *10591*. SP305-1.

RRKM; Ammonia; Combination; Cyanogen; Decomposition kinetics; Nitric acid; Nitryl chloride; Ozone; *14046*. SP305-6.

RRKM; Thermal decomposition; Alcohols; Chemical activation; Nonequilibrium; Oxygen atoms; *15881*. SP305-8.

RSYST; Burnup calculation; Burnup model; Critical boron concentration; Fission products; KWO; *SP425*, pp. 398-400. SP305-7.

RTG; Test; Evaluation; MOSFETS; Neutrons;  $\text{Pu}^{239}\text{-Be}$ ; Radiation simulation; *SP336*, pp. 129-140. SP305-3.

RTOS; Automation; Calibration; Fuel control; Jet engine; Minicomputer; Multi-task; Performance testing; Process control; Real-time; *15550*. SP305-7.

RTOS; Software; Debugging; Interdata 70; OS AIDS; *15538*. SP305-7.

Rubber; Skid; Tire contact; Tire cord; Tire stress; Tire structure; Tires; Vehicles; Friction; *Monogr. 122*. SP305-4.

Rubber; Slow melting; Stark rubber; Crystal size; Crystallized rubber; Heating rate; Melting range; Melting temperature; Oriented; Partial melting; Recrystallization; *J.71A3-455*, 225-229 (1967). SP305.

Rubber; Slow melting; Stark rubber; Crystallized rubber; Crystal size; Heating rate; Melting range; Melting temperature; Oriented; Partial melting; Recrystallization; *1436*. SP305-2.

Rubber; Specific heat; Butadiene-acrylonitrile copolymer; Butadiene-styrene copolymers; Crystallization of rubber; Elastomers; Polybutadiene; Polyethylene; Polyisobutylene; *9520*. SP305.

Rubber; Stark rubber; Chain folding; Contractility; Crystallization; Dilatometry; Heat engine; Melting; Polymers; *10832*. SP305-1.

Rubber; Stark rubber; Chain folding; Contractility; Crystallization; Dilatometry; Heat engine; Melting; Polymers; *10157*. SP305-1.

Rubber; Strain-time relations; Vulcanizates; Compliance; Creep; Dicumyl peroxide vulcanizates; Indentation of rubber; Modulus; Natural; Natural rubber; *11793*. SP305-2.

Rubber; Tensile strength; Ultimate strength; Glassy state; Low temperature; Mechanical property; Modulus; Neoprene; *10777*. SP305-1.

Rubber elasticity; Free energy; Molecular theory; *11730*. SP305-2.

Rubber elasticity; Statistical theory of rubber elasticity; Thermodynamics of rubber elasticity; Cross-linking of rubber; Dicumyl peroxide; Elasticity theory of rubber; Entropy component; Gel point; Modulus of rubber; *J.77A* No. 1, 171-177 (1973). SP305-5.

Rubber elasticity; Statistical theory of rubber elasticity; Swelling of rubber network; Cross-linking of rubber; Dicumyl peroxide; Elasticity theory of rubber; Entanglements in rubber; Gel point; Modulus of rubber; *J. Res. 80A* No. 3, 451-463 (1976). SP305-8.

Rubber, instrumental analysis; Instrumental analysis of rubber; *10103*. SP305-1.

Rubber, natural; Creep; Cross-linking; Dicumyl peroxide; Glass transition; Indentation measurements; *J.76A* No. 1, 51-59 (1972). SP305-4.

Rubber, natural; Tensile properties; Tensile strength; Ultimate elongation; Creep; Modulus; *12944*. SP305-4.

Rubber, natural; Thermal diffusivity; Thermodynamic properties; Annealed and quenched glass; Calorimetry; *cis*-1,4-polyisoprene; Glass transformation; Heat capacity; Natural rubber; Normal and supercooled liquid; *J.75A* No. 2, 113-120 (1971). SP305-3.

Rubber, natural, creep; Time, effect of, on compliance of rubber; Compliance of rubber; Creep, long-time, in rubber; Humidity, effect of, on creep of rubber; Modulus of rubber, effect of humidity; Oxygen, influence of, on creep of rubber; *J.78A* No. 5, 623-629 (1974). SP305-6.

Rubber testing; Standardization; Vulcanization; Cure meter; Mooney viscometer; Oscillating-disk cure meter; Processability; 14431. **SP305-6.**

Rubber vulcanizates; Stiffening; Anisotropic;  $\beta$ -naphthyl group; Glass transition temperature; Phenyl  $\beta$ -naphthylamine; Physical forces; Reinforcement; Reversible; 9896. **SP305-1.**

Rubbers; Styrene-butadiene rubber; Butyl rubber; Constants; Natural rubber; Neoprene; Physical constants; Polymers; Properties; 10136. **SP305-1.**

Rubbers; Styrene-butadiene rubbers; Butyl rubber; Constants; Natural rubber; Neoprene; Physical constants; Polymers; Properties; 14858. **SP305-7.**

Rubbers, viscoelasticity; Anisotropy; Chemorheology; Degradation; Elasticity; Finite deformation; Incompressible materials; Permanent set; Polymers; 16339. **SP305-8.**

Rubber-sulfur reaction; Volume change on vulcanization; Vulcanization; Aneroid calorimeter; Calorimeter; Heat measurements; Heat of vulcanization; Rubber; *J.73A No. 2, 221-231 (1969).* **SP305-1.**

Rubber-surfaced road; Slush cryogen density; Tire groove insert; Tire regrooving; Waveguide, precision fabrication; Waveguide, adjustable width; Weathering test; Wheel-shaft angle, shifting during rotation; Wind wave, damped; Accelerated weathering test; *TN536.* **SP305-2.**

Rubbery materials; Strain-energy function; Volume-extension; Compressibility; Elasticity; Finite deformation; Hyperelasticity; 15015. **SP305-7.**

Rubidium; Absolute ratio; Atomic weight; Isotopic abundances; *J.73A No. 5, 511-516 (1969).* **SP305-1.**

Rubidium; G-factor; Nuclear moment; Optical pumping; 10309. **SP305-1.**

Rubidium; Line broadening; 14396. **SP305-6.**

Rubidium; Line broadening; 15070. **SP305-7.**

Rubidium; Molecules; 14183. **SP305-6.**

Rubidium; Satellite; Line-broadening; 14731. **SP305-7.**

Rubidium; Sodium; Line broadening; 15349. **SP305-7.**

Rubidium; Sodium; Surface diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; *J. Phys. Chem. Ref. Data 4, No. 1, 177-250 (1975).* **SP305-7.**

Rubidium; Sodium; Thermoelement power; Alkali metals; Alloys; Cesium; Knight shift; Lithium; Potassium; Pressure dependences; Pseudopotential; Resistivity ratios; *SP323, pp. 651-657.* **SP305-4.**

Rubidium; Sodium; X-rays; Photoelectron spectra; Potassium; 13357. **SP305-5.**

Rubidium; Soils; Absolute; Apollo; Composition; Isotopic; Lithium; Potassium; Relative; Rocks; 15869. **SP305-8.**

Rubidium; Specific heat; Cesium; Effective mass; Electronic density of states; *SP323, p. 783.* **SP305-4.**

Rubidium; Spectra; Strontium; Ultraviolet; Wavelengths; Yttrium; Zirconium; Molybdenum; Niobium; 12675. **SP305-4.**

Rubidium; Spectra; Ultraviolet; Wavelengths; Zeeman effect; 13196. **SP305-5.**

Rubidium; Spectra; Ultraviolet; Wavelengths; Zeeman effect; 13662. **SP305-5.**

Rubidium; Spectra; Ultraviolet; Wavelengths; 14893. **SP305-7.**

Rubidium; Spectra; Ultraviolet; Wavelengths; 15255. **SP305-7.**

Rubidium; Stability; Aging; Calibration (USFS); Frequency standards; Gas cells; Performance (long term); Reliability; *TN341.* **SP305.**

Rubidium; Standards; Strontium; Trace analysis; Isotope dilution; Mass spectrometry; 13862. **SP305-6.**

Rubidium; Strontium; Thorium; Uranium; Chromium; Isotopic ratios; Lead; Model ages; Nickel; Potassium; 13932. **SP305-6.**

Rubidium; Strontium; Trace analyses; Cadmium; Environmental Standard Reference Materials; Isotope dilution; Lead; Molybdenum; 16221. **SP305-8.**

Rubidium; Vapor pressure; 13939. **SP305-6.**

Rubidium; Velocity dependence; Alkali resonance; Cesium; Collisions; Cross sections; Line broadening; 10746. **SP305-7.**

Rubidium; Zeeman effect; Atomic beam; Autoionization; Ferential metastability; Fine structure; Inner shell excitation; Rf spectroscopy; 16098. **SP305-8.**

Rubidium compounds; Sodium compounds; Standard reference data; Thermochemical tables; Enthalpy; Entropy; Gibbs energy; Heat capacity; Potassium compounds; *NBSIR 76-113.* **SP305-8.**

Rubidium frequency standard; Time comparison; Atomic clocks; Frequency stability; Portable clocks; 16489. **SP305-7.**

Rubidium gas cell; Timekeeping; Cesium beam; Cesium (atomic); Crystal oscillator; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen maser; Quartz crystal; *TN616.* **SP305-4.**

Rubidium gas cell; Timekeeping; Cesium beam; Cesium (atomic); Crystal oscillator; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen maser; Quartz crystal; *TN616, Revised March 1974.* **SP305-6.**

Rubidium gas cell; Transition probability; Atomic frequency standards; Cesium beam; Energy levels; Hydrogen maser; Hyperfine interaction; *TN399.* **SP305-3.**

Rubidium sulfide; Vibration amplitude; Neutron scattering; Orientational disorder; Phase transition; Reorientation; Residence time; 13930. **SP305-6.**

Rubidium niobate; Rubidium tantalate; Sodium antimonate; Sodium antimonate fluoride; Ionic conductivity; Nonstoichiometry; Potassium antimonate; 15439. **SP305-7.**

Rubidium oscillator; Solenoid; Absorption cell; Earth's magnetic field; Helmholtz coil; Magnetometer; Optical pumping; Resonance line; 12396. **SP305-4.**

Rubidium standards; Atomic frequency standards; Cesium beam standards; Hydrogen masers; 13997. **SP305-6.**

Rubidium standards; Saturated absorption; Time standards; Application of standards; Basic standards; Cesium standards; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen standards; Ion storage; Laser stabilization; 14830. **SP305-7.**

Rubidium standards; Saturated absorption; Time standards; Application of standards; Basic standards; Cesium standards; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen standards; Ion storage; Laser stabilization; 15736. **SP305-8.**

Rubidium tantalate; Sodium antimonate; Sodium antimonate fluoride; Ionic conductivity; Nonstoichiometry; Potassium antimonate; Rubidium niobate; 15439. **SP305-7.**

Ruby; Aluminum oxide; Chromium; Color centers; Magnetic susceptibility; Radiation damage; 13931. **SP305-6.**

Ruby; Birefringence; Crystals, lasers; Photoelasticity; *J.74A 2, 215-220 (1970).* **SP305-2.**

Ruby; Calibration; Diamond cell; Fluorescence; High pressure; Hydrostatic pressures; 15085. **SP305-7.**

Ruby; Calorimeter; Detector; Energy; Laser; Power; 12350. **SP305-3.**

Ruby; Calorimeter; Energy; Laser; Neodymium; 13613. **SP305-5.**

Ruby; Concentration determination; Magnetic susceptibility; Optical absorption coefficient; Radiation damage; 12350. **SP305-3.**

Ruby; Diamond-anvil cell; Fluorescence; Pressure measurement; 13281. **SP305-5.**

Ruby; Far-field diffraction; Laser; Near-field diffraction; Neodymium; 11571. **SP305-2.**

Ruby; Laser; Near-field and far-field diffraction; Neodymium; 11939. **SP305-3.**

Ruby; Refractive index; Refractometry; 13379. **SP305-5.**

Ruby; Rutile; Titanium; Titanium dioxide; Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical



- erties; Chemical analysis; Chromium ions; Corundum; Crystal defects; Crystal growth; Density of states; Diffusion; *Class: TN565. SP305-3.*
- ity; Sapphire; Strength; Surface perfection;  $\alpha$ - $\text{Al}_2\text{O}_3$ ; Annealing; Flame-polishing; Reinforcements; *SP348*, pp. 213-232. **SP305-4.**
- Single crystal; Topography; X ray; Laser rod; Orientation; *12066. SP305-3.*
- Spark thresholds; Thin films; Truncated Gaussian optics; Damage morphology; Damage thresholds; Laser-induced etching; *SP372*, pp. 123-134. **SP305-4.**
- Titanium; Transition; Band structure; Chemical analysis; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Fracture; Glass; High temperature materials; Inhomogeneities in glass; Laser damage; Laser glass; Lasers; *NS14. SP305-2.*
- Titanium; Transition; Band structure; Chemical analysis; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Glass; High temperature materials; Inhomogeneities in glass; Laser damage; Laser glass; Lasers; *NS13. SP305-2.*
- Trace elements; Activation analysis;  $\text{Al}_2\text{O}_3$ ; Interfering actions; Laser; Nondestructive analysis; *J75A No. 5, 429-433 (1971). SP305-3.*
- fluorescence; Diamond-anvil pressure cell; Glass transition pressures; Hydrostaticity; Pressure gradients; Pressure measurements; *13953. SP305-6.*
- fluorescence; Semiconductors; Transition pressures; Diamond-anvil pressure cell; Fixed point pressure scale; High pressure; NaCl pressure scale; Pressure measurement; *15224. SP305-7.*
- ly laser; Silicon; Stimulated emission; GaAs laser; Laser pulse shapes; Lifetime; Optical pumping; Radiative recombination; *10133. SP305-1.*
- ly laser; Surface damage; Temporal pulse monitoring; Transmission;  $0.694 \mu\text{m}$ ; Back-scattering; Precatastrophic damage; Pulse dynamics; Reflection; *SP414*, pp. 179-189. **SP305-6.**
- ly laser; Temperature dependence; GaAs; Quantum efficiency; Radiative recombination; *10244. SP305-1.*
- rod; Solid-state laser rods; Holography; Photography; *736. SP305-2.*
- degradation of; Sugars; 3-O- $\alpha$ -D-glucopyranosyl-D-glabinopyranose; Anomeric sugars; Calcium malto-bionate;  $\text{altose-1-}^{14}\text{C}$ ; *J72A No. 6, 769-771 (1968). SP305-1.*
- gedness test; Statistical techniques; Youden plot; Youden squares; Youden, W. J.; Calibration designs; Chain blocks; Collaborative tests; Diagnostic tests, index for rating; Experiment design, statistical; Graphical diagnosis; Interlaboratory tests; *16115. SP305-8.*
- ly; Sheets; Springs; Upholstered furniture; Upholstery; Bedding; Beds; Blankets; Carpets; Curtains; Drapes; Fabrics; Covers; Fire; Flames; Flammability; Flammable; Floor coverings; Furnishings; Furniture; Interior furnishings; *14498-1. SP305-2.*
- ly; Sheets; Springs; Wearing apparel; Apparel; Bedding; Beds; Blankets; Carpets; Clothing; Fabrics; Fibers; Fire; Flame; Flammability; Flammable; Floor coverings; Mattresses; Pillow cases; Pillows; *TN498. SP305-2.*
- ly; Textiles; Wearing apparel; Fabrics; Flammability; Flammable Fabrics Act; *11443. SP305-2.*
- ly  $\text{RuO}_2$  system;  $\text{RuO}_2$ - $\text{IrO}_2$  system; Solid solution; Dissociation; Oxidation; Phase relations; *J73A No. 2, 213-219 (1969). SP305-1.*
- of mixtures; Sandwich specimen; Stress-strain curves; Tensile properties; Aluminum alloy; Boron/epoxy; Co-cure; Composite materials; Fabrication process; Load-deformation characteristics; Residual stress; *TN812. SP305-6.*
- ly; Symmetry; Acid; Benzalazine; Cleavage; Complex; Molecular; Orbital; Periodic acid; *12593. SP305-4.*
- Rules and regulations; State-of-the-art study; Building regulation; Enforcement; Evaluation; Inspection; Legislation; Manufactured building; Mobile homes; *TN853. SP305-6.*
- Run statistics; Security; Terminology; Validation; Warranty; Accuracy; Audit; Certification; Code-independent; Documentation; Optimization; Precision; *SP406*, pp. 141-144. **SP305-7.**
- Runway; Airport; Air traffic control; Capacity concept; Markov renewal process; *11960. SP305-3.*
- Runway capacities; Semiconductor materials test; Speed of light; Measures for air quality; Metric chart; RF measurements; *TNB 57, No. 1, 1-24 (1973). SP305-5.*
- Runway capacity; Simulation; Airport; Airport capacity; Airport simulation; Models; Model validation; *15029. SP305-7.*
- Runway capacity; Simulation; Validation; Airport; Airport capacity; Airport simulation; Models; Model validation; *NBSIR 75-783. SP305-7.*
- $\text{RuO}_2$ - $\text{IrO}_2$  system; Solid solution; Dissociation; Oxidation; Phase relations;  $\text{Ru-Ru-O}_2$  system; *J73A No. 2, 213-219 (1969). SP305-1.*
- Rupture; Titanium alloy; Creep; Engineering design; High temperatures; Phase changes; *J72C No. 2, 167-174 (1968). SP305-1.*
- Ru-Rh alloys; Specific heat; Tight-binding approximation; Electronic density of states; Electronic specific heat; Palladium (Pd); Rh; Rh-Pd alloys; *SP323*, pp. 579-585. **SP305-4.**
- Russell B. Scott; Talk; Biography; Career; Cryogenic engineering; Memoir; *11344. SP305-2.*
- Russell-Adams effect; Super-excitation; Chromosphere; Chromospheric clouds; *SP332*, pp. 283-289. **SP305-2.**
- Russian code standard; Standard information codes; USASCII; ASCII; Character codes; Code extension; Coded character sets; Collating sequence; Computer codes; Data transmission codes; Information code structure; International information code; *TN478. SP305-1.*
- Russian literature; Bibliography; Reference data; *TN848. SP305-6.*
- Rust inhibited perfluoro greases; Surface chemistry lubrication; Chemisorption; Corrosion preventives; Inhibitor additives; LOX compatible greases; Nonreactive lubricants; *SP452*, pp. 106-119 (Sept. 1976). **SP305-8.**
- Ruthenium; Adsorption; Carbon monoxide; Catalysis; LEED; Oxygen; *15045. SP305-7.*
- Ruthenium; Ellipsometry; Optical constants; *16467. SP305-8.*
- Ruthenium; Satellite; Shake-up; Structure; X-ray photoelectron spectroscopy; Oxygen; *15147. SP305-7.*
- Ruthenium; Solubility; Uranium; Intermetallic compound; Phase diagram; *J72A No. 1, 1-10 (1968). SP305-1.*
- Ruthenium; Surface migration; Carbon monoxide; Desorption; Field emission; Monoxide; Rhenium; *11819. SP305-3.*
- Ruthenium; Surface structure; Atomic resolution; Electropolishing of ruthenium; Field evaporation; Field-ion microscopy; Heat of sublimation; *9936. SP305-1.*
- Ruthenium; Thermodynamic properties; Calorimetry; Critically evaluated data; Debye temperature ( $\theta$ ); Electronic coefficient of heat capacity ( $\gamma$ ); Enthalpy; Entropy; Gibbs energy; *J. Phys. Chem. Ref. Data 3, No. 1, 163-209 (1974). SP305-6.*
- Ruthenium; Thermomigration; Alloys; Cobalt; Copper; Diffusion; Electromigration; Iron; Nickel; Palladium; Platinum; Rhodium; *IPC RD 5, No. 1, 103-200 (1976). SP305-8.*
- Ruthenium; Ultraviolet photoelectron spectroscopy; X-ray photoelectron spectroscopy; Adsorbate; Chemisorption; *15814. SP305-8.*
- Ruthenium; Work function Auger spectroscopy; Carbon monoxide; Chemisorption; Defraction low energy electron; *14945. SP305-7.*
- Ruthenium; X-ray photoelectron spectroscopy; Chemisorption; CO; ESCA; *15042. SP305-7.*

- Ruthenium dioxide/titanium dioxide; Spinel; Electrocatalysis; Nickel-cobalt oxide; Nickel oxide; Oxide electrodes; Oxygen electrode reaction; *SP455*, pp. 289-296 (Nov. 1976). **SP305-8.**
- Ruthenium tetraoxide; Sodium borohydride; Acetals; Fructose; Ketoses; Oxidation; Psicoses; Reduction; *12121*. **SP305-3.**
- Ruthenium tetroxide; Vibrational amplitude; Vibrational spectra; Coriolis constant; Force field; Infrared; Isotopic shift; *11370*. **SP305-2.**
- Rutherford backscattering; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Shear test; Sheet resistors; Silicon; Silicon on sapphire; Spreading resistance; Test patterns; *SP400-19*. **SP305-8.**
- Rutherford backscattering; SCANIR; Secondary ion mass spectroscopy; Semiconductor devices; Silicon; Surface analysis; X-ray photoelectron spectroscopy; Auger spectroscopy; Depth profiles; Electron beam induced imaging; ESCA; Insulator films; *SP400-23*. **SP305-8.**
- Rutherford backscattering; Scattering centers; Ion channeling; Laser-damaged GaAs; *SP414*, pp. 190-192. **SP305-6.**
- Rutherford backscattering; Secondary ion mass spectroscopy; Silicon; Silicon dioxide; Surface analysis; X-ray photoelectron spectroscopy; Auger electron spectroscopy; Depth impurity profiling; Ion implantation; Ion sputtering; Microelectronic materials; *15739*. **SP305-8.**
- Rutile; Electrocatalyst; Hydrogen evolution; Lanthanum titanate; Oxygen electrode; Photo-assisted electrolysis; *SP455*, pp. 313-321 (Nov. 1976). **SP305-8.**
- Rutile; Sapphire; Spinel; Strength; Surface characterization; Twinning; Flame polishing; Glass; *SP348*, pp. 237-244. **SP305-4.**
- Rutile; Sapphire; Spinel; Strength; Twinning; Chemical polishing; *SP348*, pp. 267-269. **SP305-4.**
- Rutile; Self-consistent crystal field; Standard reference materials; Structure analysis; Calculations; Conversion electrons; Counting statistics; Cross sections; Cryostats; Electric field gradient tensor; Electronics; Gas analysis; Heterogeneity; *TN501*. **SP305-2.**
- Rutile; Single crystal; Temperature dependence; Elastic constants; Oxide; *13152*. **SP305-5.**
- Rutile; Swinging shear planes;  $\text{TiO}_2$ ;  $\text{TiO}_2\text{-Cr}_2\text{O}_3$  system; Crystallographic shear; *SP364*, pp. 197-204. **SP305-4.**
- Rutile; Symmetry conditions; Activation energy; Internal friction; Point defect; Reduction; *10114*. **SP305-1.**
- Rutile; Thermal expansion; Anisotropic crystal; Gruneisen's constant; Interferometer; *J71A5-466*, 363-369 (1967). **SP305.**
- Rutile; Titanium; Titanium dioxide; Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical properties; Chemical analysis; Chromium ions; Corundum; Crystal defects; Crystal growth; Density of states; Diffusion; Glass; *TN565*. **SP305-3.**
- Rutile; Titanium dioxide; Copper; EPR;  $g$ -factors; Hyperfine interaction; Quadrupole coupling; *11804*. **SP305-3.**
- Rutile; Tungsten; Paramagnetic resonance spectrum; Resonance; *9632*. **SP305-1.**
- Rutile crystal damage; Thin-film damage; Coating defects; Damage morphology; Damage thresholds; Laser-induced scatter; Mean distance between defects; *SP387*, pp. 114-123. **SP305-5.**
- Rutile crystal damage; Yttrium orthovanadate crystal damage; Damage morphology; Polishing compounds; Spot-size dependence; Surface defects; *SP414*, pp. 193-199. **SP305-6.**
- Rutile structure; Wadley defects; Block structures; Crystallographic shear; Defect clusters; Defect models; High resolution electron microscopy; Oxide defects; *SP364*, pp. 295-317. **SP305-4.**
- Rutile structure; Spinel structure; Corundum structure; Order disorder; Raman spectra; Rocksalt structure; *SP364*, pp. 126. **SP305-4.**
- RX meters; Vacuum-tube voltmeters; Calibration history; Equal likelihood; Oscilloscopes; *SP335*, pp. 81-84. **SP305.**
- Rydberg; Born approximation; Energy surface; General oscillator strength; Hartree-Fock;  $\text{H}_2\text{O}$ ; Photodissociation; *11402*. **SP305-2.**
- Rydberg; Threshold energies; Autoionization; 1,2-dithioethylene; Ethylene; Mass spectra; Photoionization; *9*. **SP305.**
- Rydberg; Valence; Ar; Correlation energy; Feshbach resonant state; Hartree-Fock; He Ne;  $\text{HF H}_2\text{O}$ ;  $\text{N}_2$ ; resonance energy; *11788*. **SP305-2.**
- Rydberg constant; Fine structure; Helium; *13252*. **SP305-5.**
- Rydberg constant; Fine structure; Helium; *14649*. **SP305-6.**
- Rydberg excited state; Valence excited state; CH,  $\text{CH}^+$ ; Dielectric recombination; Electron-ion recombination; Energy curve; *13719*. **SP305-5.**
- Rydberg levels; Sulfurhexafluoride; Threshold energy; Electronically excited state; Mass spectrometry; Photoionization; *9683*. **SP305-1.**
- Rydberg levels; Vacuum monochromators; Autoionization; Electronic; Excited states;  $\text{H}_2\text{O}^+$ ;  $\text{NH}_3^+$ ;  $\text{NH}_2^+$ ;  $\text{OH}^+$ ; Heats of formation; Ionization thresholds; Mass spectrometry; *J70A6-417*, 459-463 (1966). **SP305.**
- Rydberg levels; Vacuum uv monochromator; Autoionization; BrCN;  $\text{C}_2\text{N}_2$ ; ClCN; FCN; Heats of formation; ICN; Mass spectrometry; Photoionization; *10338*. **SP305-1.**
- Rydberg series; Absorption spectrum; Extreme ultraviolet photoionization; *9636*. **SP305-1.**
- Rydberg series; Absorption spectrum; Identification atlas; Nitrogen oxide; *JPCRD 5*, No. 2, 309-318 (1976). **SP305-8.**
- Rydberg series; Autoionization; Mass spectrometry; Nitrogen oxide; Photoionization; *10011*. **SP305-1.**
- Rydberg series; Electron spectroscopy;  $\text{NO}_2$ ; Photoelectron spectroscopy; *12065*. **SP305-3.**
- Rydberg series;  $\text{SF}_6$ ; Spectral region 80 Å to 630 Å; Vibrational band; Absorption spectrum; *9637*. **SP305-1.**
- Rydberg series; Vacuum ultraviolet; Autoionization;  $\text{CO}_2$ ;  $\text{OCS}_2$ ; Electronic; Excited states; Heats of formation; Ionization thresholds; Ions; Mass spectrometry;  $\text{O}_2$ ; Photoionization; Radicals; *10274*. **SP305-1.**
- Rydberg series; Vacuum ultraviolet; Franck-Condon factors; Mass spectrometry; Photoionization; *13293*. **SP305-5.**
- Rydberg spectrum; SCF calculations; Vacuum UV spectrum; Formaldehyde; Integrated oscillator strength; Photoionization coefficient; *12505*. **SP305-4.**
- Rydberg state; Absorption spectrum; Accidental predissociation; Carbon monoxide; Emission spectrum; Perturbations; *15386*. **SP305-7.**
- Rydberg state; Valence state;  $\text{CO}$ ;  $\text{CO}_2$ ; Electron impact; Fourth positive bands; Oscillator strength; *12327*. **SP305-3.**
- Rydberg states; Ammonia; Appearance potential; Autoionization; Deuterated species; Enthalpy of formation; Ionization potential;  $\text{NH}_3^+$ ;  $\text{OH}^+$ ; Photoionization; Predissociation; *16539*. **SP305-8.**
- Rydberg states; Atom; Autoionizing; Collision; Cross sections; Electron; Experiment; Positive ion; Review; *15556*. **SP305.**
- Rydberg states; Born cross-sections; Differential cross-section; Hartree-Fock; Hydrogen; *10493*. **SP305-1.**
- Rydberg states; Oscillator strength; Electron energy-loss spectroscopy; Naphthalene vapor; *13210*. **SP305-5.**
- Rydberg states; Valence states; Ion-pair;  $\text{O}_2$ ; Photodissociation; Predissociation; *15611*. **SP305-7.**

## S

Cross section behavior; Electron affinity; Negative ion; Photodetachment; 13081. SP305-5.

Parameters; Time domain; Attenuation; Automated measurement; Network analyzer; Pulse; 15661. SP305-7.

Parameters; Transistors; Electronics; High-frequency probes; Interlaboratory comparison; Scattering parameters; SP400-5. SP305-7.

Wilks; Bibliographic citations; Publications; Samuel Stanley Wilks; 15017. SP305-7.

Adsorbate; Surface molecule; Tight binding calculation; Substrate; Density of states at the adsorbate; Energy levels; 8671. SP305-5.

17. 19 kHz pilot; Frequency modulation; Modulation index; Multipath; Path delay; Phase vs. time; 16492. SP305-8.

Correction; Ytterbium; Radial integrals; 11837. SP305-3.

Efficient anodes; Soil resistivity; Cathodic protection; Insulating joints; Nonconducting coating; B5566, pp. 116-119. SP305-7.

Elliptic points; Special functions; Turning points; Whittaker functions; Asymptotic analysis; Darboux's method; Definite integrals; Hypergeometric functions; Incomplete gamma function; Legendre functions; Ordinary differential equations; 1818. SP305-8.

Elliptic points; Steepest descents; Watson's lemma; Airy integral; Asymptotics; Error bounds; Gamma function; 11700. SP305-2.

Mixture; Ti; Alloys; Electronic specific heat; Electronic structure; Fe Co; Hyperfine fields; Isomer shift; Knight shift; 313. SP305-1.

Operating area; Second breakdown; Thermal instability; Base widening; Current crowding; Hot spots; Power transistors; 16451. SP305-8.

Operating area limits; Second breakdown; Semiconductor devices; Thermal resistance; Transistor, power; Current crowding; Hot spots; Reliability; 16328. SP305-8.

Guard; Uranium; Nuclear enterprises; Nuclear materials; 16425, pp. 199-201. SP305-7.

Guards; Analysis; Diversion of nuclear materials; Diversion of nuclear materials; Internal control system characterization; Nuclear material safeguards; NBSIR 74-524. SP305-6.

Guards; Analysis; Diversion of nuclear materials; Diversion of nuclear materials; Internal control system characterization; Nuclear materials safeguards; 15048. SP305-7.

Guards; Analysis; Diversion of nuclear materials; Diversion of nuclear materials; Internal control system characterization; Nuclear materials safeguards; 15049. SP305-7.

Guards; Analysis; Diversion of nuclear materials; Diversion of nuclear materials; Internal control system characterization; Nuclear material safeguards; 16536. SP305-8.

Guards; Decision makers; Decision structure; Information flows; Nuclear material information systems; Nuclear materials safeguards; 16526. SP305-8.

Guards; Integrated Safeguards Experiment; Limit of error calculations; Nondestructive assay techniques; 12767. SP305-7.

Guards; Safeguards information system; Decision structure; Information system; Nuclear material diversion; Nuclear materials; 16525. SP305-8.

Guards; Standards; Fuel; Materials accountability; Measurements; Nuclear; 16481. SP305-8.

Guards; Surveillance; Tamper-resistant; Television; NBSIR 74-707. SP305-7.

Guards; Traceability; Calibration; Measurement; Nondestructive assay; Nuclear; 16414. SP305-8.

Guards data; Spontaneous fission; Track recorders; Coincidence counting; Decay constant; Plutonium-238; SP425, pp. 587-590. SP305-7.

Safeguards evaluation; Safeguards system design; Societal risk; Nuclear materials safeguards; 16514. SP305-8.

Safeguards for security and privacy; Technology for security and privacy; Computer security; Information handling; Privacy; 16439. SP305-8.

Safeguards information system; Decision structure; Information system; Nuclear material diversion; Nuclear materials; Safeguards; 16525. SP305-8.

Safeguards system design; Societal risk; Nuclear materials safeguards; Safeguards evaluation; 16514. SP305-8.

Safety streets; Security systems; WWV/WWVH; Accelerator facilities; Computers; Court records; Fire safety; Forensic science; Law enforcement; Methane; Metric; Police protection; DIM/NBS 59, No. 3, 49-72 (1975). SP305-7.

Safety; Accident research; Countermeasures; Epidemiology; Laboratory research; Methodology; Naturalistic studies; NBS-GCR-76-75. SP305-8.

Safety; Accidents; Accident research; Consumer accidents; Epidemiology; Accidents; Home safety; Methodology; NBS-GCR-76-76. SP305-8.

Safety; Accidents; Breeders; Fast reactors; LMFBR; Recriticality; SP425, pp. 45-50. SP305-7.

Safety; Accidents; Buildings; Construction; Maintenance; Research accidents; 16315. SP305-8.

Safety; Accuracy; Conservation; Measurements; Nondestructive evaluation; Productivity; Reliability; Reproducibility; 16301. SP305-8.

Safety; Air conditioners; Appliance; Bone cement; Computer; Energy; Energy labels; Fire fatalities; Hydrogen fuel; Magnetohydrodynamics; Metric changeover; DIM/NBS 59, No. 6, 121-144 (1975). SP305-7.

Safety; Architecture; Building; Building codes; Building design; Disaster mitigation; Earthquakes; Engineering; Environmental hazards; Housing; Inspection and testing; TN885. SP305-7.

Safety; Consumer products; Flammable liquid containers; Gasoline cans; Mechanical tests; Product standards; NBSIR 74-614. SP305-7.

Safety; Cutoff; Electric; Flow-sensitive switch; 10021. SP305-1.

Safety; Design; Engineering education; Failure analysis; Failure analysis case histories; Failure prevention; Reliability; SP433. SP305-8.

Safety; Energy crisis; Health; Meteorology; Photometry; Pollution monitoring; Radiometry; Remote sensing; 14674. SP305-6.

Safety; Explosion; Fire; Fuel; Gasoline; Hydrogen; Methane; TN690. SP305-8.

Safety; Gauge case design; Hydrogen embrittlement; Hydrogen gas; Pressure gauges; 13102. SP305-5.

Safety; Lighting; Light; Perceptual/motor; Psychomotor; NBS-GCR-75-45. SP305-8.

Safety; Safety research; Appliances; Behavioral science; Human factors; Product safety; 16215. SP305-8.

Safety; Separation; Vertical separation; Aircraft; Air transportation; Air traffic control models; Altimetry; Altitude; Aviation; Collision risk; Error analysis; Mathematical models; NBSIR 76-1067. SP305-8.

Safety; Serviceability; Stability; Structures; Design mode; Limit states design; Load; Performance criteria; Reinforced concrete; Reliability; Resistance mode; 14656. SP305-6.

Safety; Serviceability; Structures; Building criteria; Design; Optimization; Reliability; SP361, Vol. 1, pp. 181-190. SP305-4.

Safety; Shoring; Standards; Building; Codes; Concrete; Construction; Falsework; Formwork; Loads; Reshoring; B5580. SP305-8.

Safety; Simulation; Skin; Skin, cutting; Synthetic materials, cutting; Toys; Cut; Edges, hazardous; Experimental studies; Human tolerances; Injury; Injury thresholds; Inspection of edges; Laceration; NBSIR 73-262. SP305-7.

- Safety; Slush hydrogen; Superconducting; A.c. power; Cryoresistive; Energy transmission economics; Helium; Hydrogen energy; Liquid hydrogen; Liquid nitrogen; Power transmission cables; 16629. SP305-8.
- Safety; Stainless steel; Steel, titanium; Alloys; Aluminum; Combustion; Ignition; Oxygen; *NBSIR 73-345. SP305-6.*
- Safety; Standards; Structural loading; Buildings; Codes; Design criteria; Regulatory system; 15503. SP305-7.
- Safety; Standards; Voluntary standards; Consumers; 11639. SP305-2.
- Safety; Standards enclosure; Transformer; Voltage-divider; Voltmeter; Alternating-current; Calibration; Direct-current; High-voltage; Ratio; *TN349. SP305.*
- Safety; Statistical analysis; Structural engineering; Failure; Probability theory; Random process; *SP444*, pp. IV-1—IV-15 (Apr. 1976). SP305-8.
- Safety; Storage; Cryogenic technology; Data; Energy fuel; Hydrogen; Hydrogen properties; LNGSSNG; Production; *TN664. SP305-7.*
- Safety; Storage; Thermodynamic properties; Transportation; Conservation; Cryoelectronics; Cryogenics; Cryopumping; Helium; Liquefaction; Magnets; Purification; Refrigeration; *Monogr. 111. SP305-1.*
- Safety; Strength; Squeeze; Test methods; Toys; Toy safety; Twist; Children; Children's strength; Pull; Push; 13595. SP305-5.
- Safety; Strength; Test methods; Toys; Toy safety; Children; Children's strength; Pull-apart; *NBSIR 73-424. SP305-6.*
- Safety; Structural masonry; Brickwork; Experimental; Lateral loading; Performance; Research; Residential structures; *SP361, Vol. 1*, pp. 567-576. SP305-4.
- Safety; Structural testing; Bicycle; Consumer safety; Regulations; *NBSIR 75-913. SP305-8.*
- Safety; Superconductivity; Superfluid; Cryogenics; Cryopump; Cryostat; Electrical lead; Heat transfer; Mechanical properties; Refrigeration; 11147. SP305-2.
- Safety; Survey; Compatibility; Materials; Metals; Oxygen; 14215. SP305-6.
- Safety; Survey; Compatibility data; High pressure; Oxygen; 13565. SP305-5.
- Safety; Surveys; Buildings; Fires; Loads; 16087. SP305-8.
- Safety; Table saws; Accident research; Consumer products; Injury data; Opinion survey; Portable circular saws; Power saws; Radial arm saws; *NBSIR 75-748. SP305-7.*
- Safety; Technical analysis; Temperature; Air flow rate; Electrical, mechanical and thermal hazards; Hair dryer/stylers; Heat flux; *NBSIR 76-1112. SP305-8.*
- Safety; Test methods; Head injury; Helmets; Math model; Protective headgear; *NBSIR 76-1107. SP305-8.*
- Safety; Testing; Bicycles; Braking; Consumer safety; Hand-brake; *NBSIR 75-755. SP305-8.*
- Safety; Testing; Engineering, instrumentation and techniques; Fluids; Force; Hydraulic equipment; Mechanical power; Noise; Pressure; Quality control; 16452. SP305-8.
- Safety; Tires, passenger car; Wear; Construction; Maintenance; Passenger car tires; *C152. SP305-2.*
- Safety; Vents; Automobile; Detection; Dispersion; Explosion; Fire; Hydrogen; Leakage; Methane; *TN666. SP305-7.*
- Safety; Vents; Automobile; Detection; Dispersion; Explosion; Fire; Hydrogen; Leakage; Methane; 16634. SP305-8.
- Safety; Warning lights; Consumer products; Human factors; Kitchen; Ranges; Reaction time; *NBSIR 75-797. SP305-7.*
- Safety; WWW/WWW; Computer; Energy measurement; EPIC; FIPS; Kitchen ranges; Mercury; Metal fires; Metric; *DIM/NBS 60, No. 1, 1-24 (1976). SP305-8.*
- Safety; X-ray generators; X rays; Calibration; Electrical measurements; Electro-optics; Frequency response; High voltage; Kerr effect; Operational amplifier; Pulses; Radiation; *NBSIR 75-775. SP305-8.*
- Safety codes; Simplified practice recommendations; Standards of quality; Voluntary standardization; Government/nongovernment cooperation; Performance standards; 105. SP305-1.
- Safety color codes; Spectrophotometry; Standards for spectrophotometers; Colorimetry; Keegan, Harry J.; Photographic interpretation; 11414. SP305-2.
- Safety glazing; Standards; State law; Architectural glazing codes; Consumer Product Safety Committee; Consumer Safety Glazing Committee; Glazing; Impact tests; *NBSIR 1109. SP305-8.*
- Safety implementation approaches; Architectural glazing products; Consumer Product Safety Act; Residence-related products; Residential safety modification; 16006. SP305-8.
- Safety implementation approaches; Architectural glazing products; Consumer Product Safety Act; Residence-related products; Residential safety modification; *NBSIR 75-748. SP305-8.*
- Safety implementation approaches; Safety standards; Building codes; Consumer Product Safety Act; Product safety; Residence-related products; Residential safety; *NBSIR 75-666. SP305-7.*
- Safety information; Thermodynamic properties; Chemical reactions; Combustion; Cryogenic fluid safety; Explosions; Fire; Fuels; Handling; Hydrogen; Oxidizers; Oxygen; Propellants; 15154. SP305-7.
- Safety of appliances; Standards for safety; Government participation; Refrigeration safety standards; 15890. SP305-8.
- Safety of home playground equipment; Slides, safety of; Swings, safety of; Home playground equipment, safety of; Jungles, safety of; Playground equipment, safety of; *SP566. SP305-8.*
- Safety program impact; Traffic data systems; Highway traffic safety; Indicators; *NBSIR 74-561. SP305-6.*
- Safety regulations; Standard development; Baby cribs; Children's furniture; Product safety; Product testing; *NBSIR 714. SP305-7.*
- Safety requirements; Safety testing; Consumer products, CPSC; Proposed regulation; Pacifiers; Product safety; *NBSIR 733. SP305-7.*
- Safety research; Appliances; Behavioral science; Human factors; Product safety; Safety; 16215. SP305-8.
- Safety responsibility; Construction safety; Construction surety; Degradation of safety with age and use; Maintenance; Safety; Public safety; *SP423*, pp. 165-170 (Apr. 1976). SP305-8.
- Safety standard; Thrown objects tests; Dispersion tests; Lawnmowers; Penetration tests; Power lawn mowers; *NBSIR 1022. SP305-8.*
- Safety standard; Unreasonable hazards; Consumer products; Product safety; Refrigerator standards; Risk measurement; 16131. SP305-8.
- Safety standards; Athletic helmets; Head injury; Injury criteria; 14598. SP305-6.
- Safety standards; Building codes; Consumer Product Safety Act; Product safety; Residence-related products; Residential safety; Safety implementation approaches; *NBSIR 75-666. SP305-7.*
- Safety standards; Conservation of material resources; Failure prevention; Government action; Mechanical failure; Mechanical reliability; *SP423*, pp. 221-225 (Apr. 1976). SP305-8.
- Safety standards; Consumer product safety; Failure prevention; Government action; Government responsibility; Mechanical failure; *SP423*, pp. 215-219 (Apr. 1976). SP305-8.
- Safety standards; Economic cost of failure prevention; Frequency of failure; Government action; Life-cycle costing; Managerial analysis; Quality control; *SP423*, pp. 107-116 (Apr. 1976). SP305-8.



ety standards; Failure prevention; Mechanical failure; Mechanical malfunction; Quality assurance; Reactor systems and components; *SP423*, pp. 143-151 (Apr. 1976). **SP305-8.**  
 ety standards; Federal Motor Vehicles Safety Standards; In-laboratory test evaluation; Motor vehicles; Photometric testing; *TN821*. **SP305-6.**  
 ety standards; Sampling plan; Sampling scheme; Quality assurance; Regulation; *NBSIR 75-697*. **SP305-7.**  
 ety standards; Stability and strength; Test methods; Accident reports; High chairs; Infants; *NBSIR 74-509*. **SP305-6.**  
 ety standards; Swing set; Test method; Component; Criteria; Development; Equipment; Hazard; Hazardousness; Home playground; Identification; Mishap; Misuse; Product defect; *SP4397*. **SP305-6.**  
 ety standards; Test methods; Walker-jumpers; Accident reports; Baby walkers; Infants; *NBSIR 74-434*. **SP305-6.**  
 ety standards; Transportation safety; Effects of mechanical failure on environment; Failure prevention; Government action; Mechanical failure; *SP423*, pp. 153-163 (Apr. 1976). **SP305-8.**  
 ety standards for utility tunnels; Underground communication facility; Underground electric facilities; Utility tunnel safety; Coordination of utility facilities; National electrical safety code; *14671*. **SP305-6.**  
 ety test; Burns; Instrumentation; Product safety; *14506*. **SP305-6.**  
 ety testing; Consumer products, CPSC proposed regulation; Pacifiers; Product safety; Safety requirements; *NBSIR 75-633*. **SP305-7.**  
 ety wheels; Bike regulations; Bomb disarmament; Computer auditing; Energy options; Explosive vapor detectors; Firebug; Impulse generators; MHD electrode materials; Optical standards; *DIM/NBS 60*, No. 7, 1-24 (1976). **SP305-8.**  
 ety work rules; Communication industry safety; Electrical safety; Operation of communication systems; Operation of electrical supply systems; Public utility safety; *14670*. **SP305-6.**  
 pitariu B2; Ethyl alcohol; Interstellar chemistry; Molecular cloud; Molecular spectroscopy; Radio astronomy; *15001*. **SP305-7.**  
 gnac interferometer; Autocorrelation; Interferometry; Lens testing; Modulation transfer function; Optics; Physical optics; *12955*. **SP305-4.**  
 la equilibrium; Spark; Spectrochemical analysis; Spectroscopic source; Arc; Boltzmann equilibrium; Excitation; Ionization; Line intensity; *9361*. **SP305.**  
 es seminars; Standardization and measurement; Time and frequency; Appliance labeling; Avogadro constant; Biomolecules; Computers; Energy; EPIC; Ground ladders; Metrology guides; *DIM/NBS 58*, No. 10, 217-239 (1974). **SP305-6.**  
 line solution; Titanium; Alloys; Biological; Corrosion; Electron microscopy; Implant; *13600*. **SP305-5.**  
 inity control; Colorado River; Cost sharing; Efficiency; Equity; *15477*. **SP305-7.**  
 Iron; Salmon fishery; Salmon information system; Washington State Fisheries; Anadromous Fish Catch Record System; Catch record system; Fisheries statistics; Fish record system; Fishery management model; Fishery modeling; Modeling; *NBSIR 75-796*. **SP305-7.**  
 Iron fisheries; Salmon fishery modeling; Simulation; State of Washington; Washington State; Washington State Fisheries; Fisheries; Fishery; Fishery modeling; Mathematical modeling; Regulatory analysis; Resource management; *NBSIR 75-745*. **SP305-7.**  
 Iron fisheries model; Analysis of biological processes; Economic performance; Fisheries management; Fisheries regulation; Mathematical models; *NBSIR 74-522*. **SP305-7.**  
 Salmon fishery; Salmon information system; Washington State Fisheries; Anadromous Fish Catch Record System; Catch record system; Fisheries statistics; Fish record system; Fishery management model; Fishery modeling; Modeling; *NBSIR 75-796*. **SP305-7.**  
 Salmon fishery modeling; Simulation; State of Washington; Washington State; Washington State Fisheries; Fisheries; Fishery; Fishery modeling; Mathematical modeling; Regulatory analysis; Resource management; *NBSIR 75-745*. **SP305-7.**  
 Salmon information system; Washington State Fisheries; Anadromous Fish Catch Record System; Catch record system; Fisheries statistics; Fish record system; Fishery management model; Fishery modeling; Modeling; *NBSIR 75-796*. **SP305-7.**  
 Salt; Salt packages; Sodium chloride; *PS14-69*. **SP305-2.**  
 Salt; Sulfuric; Acid; Chlorosulfonic; Fuming; Hexapotassium; Hexasulfate; *11580*. **SP305-2.**  
 Salt mixtures; Sodium chloride; Solutions; Deuterium oxide; Potassium chloride; *11437*. **SP305-2.**  
 Salt packages; Sodium chloride; Salt; *PS14-69*. **SP305-2.**  
 Salt solutions; Saturated salt; Humidity; Humidity chamber; Microbiological growth; Relative humidity; *NBSIR 75-917*. **SP305-7.**  
 Salt spray corrosion resistance; Warded lock; Ace type pin tumbler lock; Cheek plate tamper resistance; *14959*. **SP305-7.**  
 Salt stress corrosion; Solid state reactions; Stress-corrosion cracking; Titanium 8-1-1 alloy; Corrosion products; High temperature corrosion; Preoxidation; *9901*. **SP305-1.**  
 Salt water; Alloys; Copper; Corrosion, embrittlement; Palladium; *13094*. **SP305-5.**  
 Salt water; Solid lubrication; Abrasion; Corrosion protection; Friction; Marine environment; Powder coating; *SP452*, pp. 25-30 (Sept. 1976). **SP305-8.**  
 Salt water; Titanium; Corrosion; Electron microscopy; Pressure; *13602*. **SP305-5.**  
 Salt-polymer interactions; Aromatic polyamide membranes; Desalination; Diffusion; Membranes; NMR; Permeation in polymers; Polymeric films; Reverse osmosis; *13438*. **SP305-5.**  
 Salt-sprays; Corrosion; Electrochemical; Lubricants; *SP452*, pp. 97-105 (Sept. 1976). **SP305-8.**  
 Saltwater corrosion; Surfaces; Alloy theory; Catalysis; Chemisorption; Cu-Ni alloys; D-bands; Electron-configuration; Metallurgy; Passivity; Rigid-band model; *13805*. **SP305-6.**  
 Samarium; Terbium; Thulium; Ytterbium; Cerium; Dysprosium; Erbium; Europium; Gadolinium; Hafnium; Holmium; Ionization energy; Lanthanum; Lutetium; Neodymium; Praseodymium; Promethium; *13703*. **SP305-5.**  
 Samarium compounds; Terbium compounds; Thulium compounds; Ytterbium compounds; Cerium compounds; Dysprosium compounds; Enthalpy; Entropy; Erbium compounds; Europium compounds; Gadolinium compounds; Gibbs energy of formation; Holmium compounds; *TN270-7*. **SP305-5.**  
 Samarium iron garnet; Anisotropy of samarium iron garnet; Iron garnet; Magnetic torque anisotropy; *10124*. **SP305-1.**  
 Samarium-152; Charge distribution; Deformation parameters; Electron scattering; High-energy electrons; Rotational band; *13166*. **SP305-5.**  
 Sample; Software management; Survey; ADP; COBOL; Federal ADP installations; Federal Standard COBOL; Impact evaluation; *NBSIR 76-1100*. **SP305-8.**  
 Sample attenuation corrections; Sensitivity and gamma-ray spectra of the elements; 3-MeV neutron activation analysis; Absolute flux; Cockcroft-Walton neutron generator; *11913*. **SP305-3.**  
 Sample characteristics; Straylight; Wavelength accuracy; Bandwidth; Calibration; Errors in spectrophotometry; Inter-

- ferences; Multiple reflections; Photometric linearity; Polarization; *J. Res.* 80A No. 4, 609-624 (1976). **SP305-8.**
- Sample characterization; Semiconductor; Cuprous oxide; Implantation; Ion; Nondestructive testing; Raman scattering; 15915. **SP305-8.**
- Sample handling; Sampling; Trace analysis; Accuracy; Analysis; Analytical chemistry; *SP422. Volume I and II.* **SP305-8.**
- Sample handling; Sampling; Trace elements; Chemical analysis; Environmental samples; Long-term storage; Microbiologicals; Organics; Pesticides; Radionuclides; *TN929.* **SP305-8.**
- Sample handling; Shipboard atmospheric sampling; Analytical blanks; Atmospheric sampling; Coastal sampling; Contamination of atmospheric particulate samples; *SP422*, pp. 377-388 (Aug. 1976). **SP305-8.**
- Sample heating; Saturation; Parallel pump susceptibility; 10420. **SP305-1.**
- Sample homogeneity; Detector techniques; Nuclear track analysis; *SP422*, pp. 457-459 (Aug. 1976). **SP305-8.**
- Sample homogeneity; Solids; Statistics; Background; Electrical detection; Electrical discharge; Ion probe; Ion sensitive plates; Mass spectrometry; Pelletizing; Precision; Relative sensitivity; 10814. **SP305-1.**
- Sample introduction; Solvent removal; Spray; Atomizer; Nebulizer; Pneumatic aspirator; 11173. **SP305-2.**
- Sample preparation; Biological materials; Homogenization; Lyophilization; Noncontaminating; *SP422*, pp. 721-726 (Aug. 1976). **SP305-8.**
- Sample preparation; Sampling; Trace analysis; Water sampling; Contamination; Geological sample; Rocks and minerals; *SP422*, pp. 285-297 (Aug. 1976). **SP305-8.**
- Sample preparation; Silicon characterization; Spreading resistance; Surface effects; Automated resistivity measurements; Calibration; Germanium characterization; *SP400-10*, pp. 145-154. **SP305-6.**
- Sample preparation; Standard materials; Trace element analysis; Errors of analysis; Homogenization; Neutron activation analysis; *SP422*, pp. 1293-1304 (Aug. 1976). **SP305-8.**
- Sample preparation; Toxic metals; Trace determination; Aquatic insects; Atomic absorption; Clean room; Fish; Mini-computer; *SP422*, pp. 627-632 (Aug. 1976). **SP305-8.**
- Sample preparation; Trace element analysis; Accuracy and precision; Comparison of trace analytical methods; Contamination; Rocks and ores; *SP422*, pp. 773-790 (Aug. 1976). **SP305-8.**
- Sample pressure; Thermal neutron flux; Threshold foil; Cadmium ratio; Fast neutron flux; Neutron activation analysis; 14083. **SP305-6.**
- Sample rotator; 14 MeV neutrons; Accuracy; Activation analysis; Design; Oxygen; Precision; 10576. **SP305-1.**
- Sample size variations; Trace analysis; Trace metals; Atomic absorption spectroscopy; Fish analysis; *SP422*, pp. 163-172 (Aug. 1976). **SP305-8.**
- Sample stability; Surface water analysis; Filtration losses; Metallic ions; Pollution monitoring; Rainwater analysis; *SP422*, pp. 633-648 (Aug. 1976). **SP305-8.**
- Sample storage; Sampling; Accuracy; Analytical chemistry; Contamination; Errors; Natural water; *SP422*, pp. 805-836 (Aug. 1976). **SP305-8.**
- Sample variance; Spectral density; Variance; Allan variance; Frequency; Frequency stability; 12228. **SP305-3.**
- Sample variance; Spectral density; Variance; Allan variance; Frequency; Frequency stability; *TN394.* **SP305-2.**
- Samples of size 3; Statistics; Mean deviation; Range; 11007. **SP305-2.**
- Sample-thickness dependence; Thermoluminescence; Thin foils;  $^{60}\text{Co}$  gamma radiation;  $\text{CaF}_2$ ; Mn; Electrons, 20 to 400 keV; Energy dependence; Fluence response; Response per unit electron energy absorbed; 10923. **SP305-2.**
- Sampling; Accuracy; Analytical chemistry; Contamination; Errors; Natural water; Sample storage; *SP422*, pp. 805-836 (Aug. 1976). **SP305-8.**
- Sampling; Air pollution; Benzene; Benzene- $d_6$ ; Gas analysis; Gas chromatography; Isotope dilution; 12427. **SP305-4.**
- Sampling; Automated systems; Fluidic logic; Gas chromatography; Plasma chromatography; 15106. **SP305-7.**
- Sampling; Chemistry; Clinical laboratory capability; Critical; Hematology; Microbiology; 15244. **SP305-7.**
- Sampling; Chemistry; Clinical laboratory capability; Critical; Hematology; Microbiology; 15273. **SP305-7.**
- Sampling; Concentration; Detectors; Extraction; Gas chromatography; Isolation and clean-up; Mass spectrometry; gaseous trace analysis; Qualitative accuracy; Quality control; Quantitative accuracy; Reference materials; *SP422*, pp. 9 (Aug. 1976). **SP305-8.**
- Sampling; Laser; Optical pulse; Oscilloscope; Photoconductor; Pulse measurements; 16193. **SP305-8.**
- Sampling; Sampling oscilloscope; Strobe; GaAs; Laser; Optical; Oscilloscope; Photoconductor; Picosecond; 15835. **SP305-8.**
- Sampling; Serum; Biological materials; Chromium; Cobalt; Contamination; Manganese; *SP422*, pp. 299-310 (Aug. 1976). **SP305-8.**
- Sampling; Simulation; Wattmeter; Analog-to-digital conversion; Digital; Electricity; Electric power; Measurement; *TN8* **SP305-7.**
- Sampling; Slideback; Standard; Oscilloscope; Peak voltage; Pulse; 9972. **SP305-1.**
- Sampling; Slotted line; Bandwidth; Diode; Impedance; *NBS* 73-330. **SP305-6.**
- Sampling; Species; Trace element concentrations; Neutron activation analysis; Particulates; 15783. **SP305-8.**
- Sampling; Standard sample; Volatile content; Ash content; Elemental analysis; Homogeneity; Lithium content; Molecular weights; Polymer; Preparation; Purity; *J71A1-435*, 43- (1967). **SP305.**
- Sampling; Standards; Flammable fabrics; Product safety; *SP41*, pp. 16-19. **SP305-6.**
- Sampling; Statistics; Test variability; Acceptance sampling; Letter; Quality control; 9922. **SP305-1.**
- Sampling; Surface contamination; High purity metals; Ion homogeneity; Microsegregation; *SP422*, pp. 747-755 (Aug. 1976). **SP305-8.**
- Sampling; Time base; Transition time; Mercury switch; Oscilloscope; Picosecond; Pulse; Random sampling; Risetim; 13799. **SP305-5.**
- Sampling; Trace analysis; Accuracy; Analysis; Analytical chemistry; Sample handling; *SP422. Volume I and II.* **SP305-8.**
- Sampling; Trace analysis; Water sampling; Contamination; Geological sample; Rocks and minerals; Sample preparation; *SP422*, pp. 285-297 (Aug. 1976). **SP305-8.**
- Sampling; Trace elements; Chemical analysis; Environmental samples; Long-term storage; Microbiologicals; Organic; Pesticides; Radionuclides; Sample handling; *TN929.* **SP305-8.**
- Sampling; Transition time; Mercury switch; Oscilloscope; Picosecond; Pulse; Random sampling; Risetim; 1426. **SP305-6.**
- Sampling; Water; Analysis; Carbon; Crud; Filtration; Pressurized water reactors; Primary coolant; *SP422*, pp. 429-436 (Aug. 1976). **SP305-8.**
- Sampling; Wattmeter; Analog-to-digital conversion; Digital; Electricity; Electric power; Measurement; 14878. **SP305-7.**
- Sampling; X-ray fluorescence; Ion exchange; *SP422*, pp. 64-658 (Aug. 1976). **SP305-8.**
- Sampling a biotite; Sampling constants; Standard biotite; Biotite stoichiometry; Geochemical standards; Geochronological standards; K-Ar dating; *SP422*, pp. 401-419 (Aug. 1976). **SP305-8.**

Sampling air; Accuracy and precision; Air; Air particulates; Air pollution; Analysis of air; Atmosphere; Gaseous pollutants; *SP422*, pp. 311-320 (Aug. 1976). **SP305-8.**

Sampling and sample handling; Accuracy and precision; Activation analysis; Analytical design; Irradiation procedures; Radioactivity detection systems; Radiochemical separations; *SP422*, pp. 1143-1155 (Aug. 1976). **SP305-8.**

Sampling constants; Standard biotite; Biotite stoichiometry; Geochemical standards; Geochronological standards; K-Ar dating; Sampling a biotite; *SP422*, pp. 401-419 (Aug. 1976). **SP305-8.**

Sampling device; Sea water sampling; Trace organic analysis; Water pollution; Baseline studies; Fresh water sampling; *SP099*. **SP305-7.**

Sampling error; Analytical data; Analytical work; Critical evaluation of an analytical procedure; Industrial chemical analysis; Interlaboratory comparisons; *16001*. **SP305-8.**

Sampling errors; Trace analysis; Analytical error; Geochemical variance; Particle size distribution; Particle size errors; *SP422*, pp. 421-427 (Aug. 1976). **SP305-8.**

Sampling function; Whittaker's cardinal function; Laguerre transform; *J. Res. NBS* No. 3, 415-418 (1976). **SP305-8.**

Sampling head; Sampling oscilloscope; Spark-gap; GHz; Impulse; Picoseconds; Random sampling; *12518*. **SP305-4.**

Sampling methods; World Meteorological Organization (WMO); Analytical methods; Data reporting procedures; Intergovernmental Oceanographic Commission (IOC); Marine pollution (petroleum) monitoring; Maritime Administration (MarAd); *SP409*. **SP305-6.**

Sampling methods; X-ray fluorescence; Atmospheric particulates; Direct analysis techniques; Emission spectroscopy; Particulate analysis; Particulate characterization; *SP422*, pp. 791-803 (Aug. 1976). **SP305-8.**

Sampling oscilloscope; GaAs; Laser; Photoconductor; *15644*. **SP305-7.**

Sampling oscilloscope; Scattering parameters; Spectral analysis; Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Jitter; Microwave measurement; Mismatch; Network analyzer; Noise; Pulse generator; Pulse measurement; *TN672*. **SP305-7.**

Sampling oscilloscope; Spark-gap; GHz; Impulse; Picoseconds; Random sampling; Sampling head; *12518*. **SP305-4.**

Sampling oscilloscope; Spectrum amplitude; Time domain; Transient; Automated measurement; Pulse; Rise time; *16477*. **SP305-8.**

Sampling oscilloscope; Strobe; GaAs; Laser; Optical; Oscilloscope; Photoconductor; Picosecond; Sampling; *15835*. **SP305-8.**

Sampling oscilloscope standardization; Spectrum analyzer standardization; Termination mismatch error elimination; Thin-film bolometers; Voltage measurement; BOLOVAC; Calibration of current meters through microwaves; *Monogr. 123*. **SP305-4.**

Sampling plan; Sampling scheme; Quality assurance; Regulation; Safety standards; *NBSIR 75-697*. **SP305-7.**

Sampling plans; Standards; Test development; Upholstered furniture; Annual report to Congress; Blankets; Children's sleepwear; Flammability; Flammability reduction; Mattresses; Research; *TN749*. **SP305-4.**

Sampling plans; Upholstered furniture; Blankets; Children's sleepwear; Fabric fires; Fabric flammability standards; FFACFS; Fire injuries; Flammable fabrics; Flammability standards priorities; Garment flammability; Garments; *13972*. **SP305-6.**

Sampling power measurement; Solid state switch; Peak pulse power measurement; *12295*. **SP305-3.**

Sampling problems; Trace elements; High-temperature alloys; Intergranular segregation; Macro-segregation; *SP422*, pp. 1017-1022 (Aug. 1976). **SP305-8.**

Sampling scheme; Quality assurance; Regulation; Safety standards; Sampling plan; *NBSIR 75-697*. **SP305-7.**

Sampling techniques; Trace analysis of lead; Waters, lead in; Accuracy of atomic absorption analytical techniques; Accuracy of isotope dilution analytical techniques; Errors in lead analyses; Lead; Lead contamination evaluation and control; *SP422*, pp. 321-351 (Aug. 1976). **SP305-8.**

Sampling test; Drop ball test; Impact resistance; Ophthalmic lens; Proof testing; Research associate program; *NBSIR 76-996*. **SP305-8.**

Sampling water for trace elements; Suspended particulates in water; Teflon water sampler; Trace elements; Trace elements in water; Water; Filtering water; River water; *SP422*, pp. 439-455 (Aug. 1976). **SP305-8.**

Sampson transform; Seidel transform; Spectrochemical analysis; Arrak transform; Baker transform; Emulsion calibration; Kaiser transform; Photographic emulsions; *11384*. **SP305-2.**

Samuel Stanley Wilks; S. S. Wilks; Bibliographic citations; Publications; *15017*. **SP305-7.**

Sand gradation; Testing sand; Cement strength; ISO cement standards; *10946*. **SP305-2.**

Sand motion under waves; Beach accretion; Coastal processes; Offshore zone; Oscillatory water tunnel; Permeability effect on sand transport; Ripples, sand; *15793*. **SP305-8.**

Sand transport; Oscillatory flows; Permeability; Ripple; *15145*. **SP305-7.**

Sand transport; Sewage sand; Sewer self-cleansing; Grit; *16374*. **SP305-8.**

Sandia bridge; Scattering; S-parameters; Transistors; Vector voltmeter; Delay time; Electronics; High-frequency probes; *NBSIR 73-152*. **SP305-6.**

Sandwich construction; Wall system; Accelerated aging; Compression; Environmental conditions; Flexure; Housing system; Operation BREAKTHROUGH; Polyurethane foam; *13386*. **SP305-5.**

Sandwich facings; Sandwich panels; Adhesives; Paper honeycomb; *BSS43*. **SP305-4.**

Sandwich panel; Shelter; Durability; Field inspection; Foam and beam; Honeycomb; Impact; Lightweight structures; Military; Reliability; *NBSIR 76-1025*. **SP305-8.**

Sandwich panels; Adhesives; Paper honeycomb; Sandwich facings; *BSS43*. **SP305-4.**

Sandwich specimen; Aluminum alloy; Boron/epoxy; Composite materials; Creep; Elastic follow-up technique; *TN722*. **SP305-4.**

Sandwich specimen; Stress-strain curves; Tensile properties; Aluminum alloy; Boron/epoxy; Co-cure; Composite materials; Fabrication process; Load-deformation characteristics; Residual stress; Rule of mixtures; *TN812*. **SP305-6.**

Sandwiched polymeric films; Vibration transducer; Dynamic pressure transducer; Polymeric film transducer; *U.S. Patent 3,970,862*. **SP305-8.**

Sanitary DWV systems; Secondary ventilation; Testing plumbing systems; Vents for plumbing; Hydraulic criteria for plumbing; Hydraulic test loads; Plumbing-vent sizing; Reduced-size vents; *BSS49*. **SP305-6.**

Sanitary plumbing fixtures; Scratch resistance; Stain resistance; Surface-impact resistance; Test methods; Abrasion resistance; Chemical resistance; Cigarette-burn resistance; Cleanability and soilability; Concentrated static-load capacity; Performance characteristics; Performance level; *BSS22*. **SP305-2.**

Sanitary ware; Sheet steel; Abrasion resistance; Chemical resistance; Porcelain enamel; *PSS-66*. **SP305.**

Sapphire; Aluminium oxide; Defects; Electron microscopy; Neutron damage dislocations; *10825*. **SP305-1.**

Sapphire; Aluminium oxide; Dislocations; Electron microscopy; Grain boundaries; Impurities; *9430*. **SP305.**

- Sapphire;  $Al_2O_3$ ; Crystal growth; Damage threshold; Glass; High temperature materials; Laser; Oxides; Oxygen diffusion; Pure materials; *TN703*. **SP305-3.**
- Sapphire;  $Al_2O_3$ ; Crystal growth; Damage threshold; Glass; High temperature materials; Laser; Oxides; Oxygen diffusion; Pure materials; *TN574*. **SP305-3.**
- Sapphire; Cracks; Crack propagation; Double-cantilever-cleavage technique; Fracture; Fracture surface energy; *11478*. **SP305-2.**
- Sapphire; Cubic-spline interpolation; Cyclohexane; Interpolation; Polystyrene; Refractive index; *13635*. **SP305-5.**
- Sapphire; Sapphire substrates; Sapphire surface preparation; Crystalline sapphire surfaces; Fluorinated-hydrocarbon etch; Fluorotrichloromethane; Freon etching; Hydrogen annealing; *SP348*, pp. 259-265. **SP305-4.**
- Sapphire; Scanning Fabry-Perot interferometer; YAG; Birefringence; Fused silica; Optical spectrum analyzer; Photoelastic effect; *SP387*, pp. 254-258. **SP305-5.**
- Sapphire; Scattering; Waveform distortion; Alkali-halides; Alkaline-earth fluorides; Bulk damage; Focal spot diameter; Inclusion damage; Interference ripples; Pulsed DF laser damage; *SP462*, pp. 136-144 (Dec. 1976). **SP305-8.**
- Sapphire; Slow crack growth; Thermal activation; Ambient temperatures; Dislocation mechanisms; Fracture mechanics; *15122*. **SP305-7.**
- Sapphire; Sodium chloride; Electron microscopy; Fracture; Mechanical properties; Plastic deformation; *NBSIR 73-297*. **SP305-6.**
- Sapphire; Spatial and temporal plasma resolution; Streak camera experiments; Surface plasmas; Entrance and exit surface damage; *SP372*, pp. 46-54. **SP305-4.**
- Sapphire; Spinel; Strength; Twinning; Chemical polishing; Rutile; *SP348*, pp. 267-269. **SP305-4.**
- Sapphire; Spinel; Strength; Surface characterization; Twinning; Flame polishing; Glass; Rutile; *SP348*, pp. 237-244. **SP305-4.**
- Sapphire; Static fatigue; Stress corrosion; Ceramics; Crack growth; Delayed failure; Fracture; Glass; *11193*. **SP305-2.**
- Sapphire; Strength; Alumina; Fracture; Mechanical properties; Plastic deformation; *12282*. **SP305-3.**
- Sapphire; Strength; Surface perfection;  $\alpha-Al_2O_3$ ; Annealing; Flame-polishing; Reinforcements; Ruby; *SP348*, pp. 213-232. **SP305-4.**
- Sapphire; Strength; Transmission electron microscopy; Alumina; Crack growth; Critical stress intensity factor; Fracture; Plastic deformation; *13853*. **SP305-6.**
- Sapphire; Surface damage; Threshold increase; Threshold measurement; Ion beam polishing; *SP372*, pp. 55-57. **SP305-4.**
- Sapphire; Temperature; Thickness; Cell; Kovar; *15618*. **SP305-7.**
- Sapphire filament; Strength enhancements; Characterization; Continuous flame polishing; *SP348*, pp. 247-256. **SP305-4.**
- Sapphire substrates; Sapphire surface preparation; Crystalline sapphire surfaces; Fluorinated-hydrocarbon etch; Fluorotrichloromethane; Freon etching; Hydrogen annealing; Sapphire; Sapphire substrates; *SP348*, pp. 259-265. **SP305-4.**
- Sapphire surfaces; Silicon films; Specular reflection; Differential reflection; Epitaxial semiconductor devices; Kramers-Kronig relation; Multiple reflection; *NBS-GCR-76-61*. **SP305-8.**
- Sapphire whiskers; Al-10 percent Si alloy; Electron probe microanalyzer; Fiber composites; Matrix-whisker bonding; Ni coated sapphire whiskers; Optical metallography; *J72A No. 3*, 269-272 (1968). **SP305-1.**
- SASO; Saudi Arabia; Standardization; Tentative standards; Building codes; Industrialization; Less-developed country; *NBSIR 75-976*. **SP305-8.**
- Satellite; Calibration accuracy; Effective area; Effect radiated power; Extrapolation method; Gain comparison method; Microwave antenna; Power gain; *14970*. **SP305-7.**
- Satellite; Line-broadening; Rubidium; *14731*. **SP305-7.**
- Satellite; Scintillation; Spread-F; Topside; Absorption; H<sub>1</sub> latitude; Ionosphere; Ionospheric scattering; Irregularities; *16641*. **SP305-8.**
- Satellite; Service improvement; Communication; Cost-benefit; Deployment; Electronic transmission; Facility location; Mathematical programming; Message network synthesis; Network optimization; *NBSIR 75-737*. **SP305-7.**
- Satellite; Shake-up; Structure; X-ray photoelectron spectroscopy; Oxygen; Ruthenium; *15147*. **SP305-7.**
- Satellite; Synchronization; Time; Broadcasting; Dissemination; Frequency; *14836*. **SP305-7.**
- Satellite; Synchronization; Time and frequency dissemination; VHF; VLF; HF; Noise; *TN357*. **SP305.**
- Satellite; Time; Time code; Clock; Microprocessor; *TN64*. **SP305-8.**
- Satellite; Topside; Aurora; Electrostatic wave; Ionospheric ducting; Ionospheric irregularity; Ionospheric scattering; Plasma resonance; Radio sounding; *9615*. **SP305-1.**
- Satellite; Tropospheric scatter; Radio horizon; *10976*. **SP305-6.**
- Satellite altitudes; Atmosphere; Auroral electrons; Bremsstrahlung; Energy spectra; Monte Carlo calculation; *1445*. **SP305-6.**
- Satellite astronomy; Spheroidal method; Astronomy; Dynamic astronomy; Oblate planet; *10250*. **SP305-1.**
- Satellite batteries; Separator materials; Battery separator; Nickel-cadmium batteries; *NBSIR 74-541*. **SP305-7.**
- Satellite communications; Antenna gain; G/T; Radio station; *15660*. **SP305-7.**
- Satellite communications; Error analysis; G/T; Precision measurements; Radio star; *NBSIR 76-842*. **SP305-8.**
- Satellite emissions; Self absorption; Soft x-ray emission; X-ray spectroscopy; Zinc (Zn); Cobalt; Copper; Electronic density of states; Iron; Nickel; *SP323*, pp. 319-326. **SP305-4.**
- Satellite ephemeris; Variation of parameters; Celestial mechanics; Orbit perturbation; *J79B Nos. 1 and 2*, 1-(1975). **SP305-7.**
- Satellite geodesy; Crustal moments; Earth rotation; Geodynamics; Lunar distance; Microwave interferometry; Plate tectonics; *15799*. **SP305-8.**
- Satellite research centers; Advisers to inventors; Deferred examinations; Innovation; Invention; Mechanized searching; Patent litigation; Patent Office; Patent system reform; Patent patents; *SP388*, pp. 111-115. **SP305-6.**
- Satellite spherical method; Artificial satellite; Gravitational potential; Oblate planet; *10111*. **SP305-1.**
- Satellite structure; Electronic density of states; Free-electron like metals; Interband absorption; Optical properties; Plasmon; Pseudopotential; Quasi-particle; *SP323*, pp. 121-127. **SP305-4.**
- Satellite T/F dissemination; Short-term stability; SI Units; Television T/F dissemination; Thallium beam standard; Time; Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; Time scales; "unified standard"; *URSI Monogr. 140*. **SP305-6.**
- Satellite time; Sprinkler systems; Aircraft failure; Copernicus; Corrosion; Length standard; Lens calibration; Police helmet; *DIM/NBS 58*, No. 4, 74-96 (1974). **SP305-6.**
- Satellite time and frequency dissemination services; Communication satellite; Communication system; HF time dissemination services; Navigation system; *16644*. **SP305-8.**
- Satellite time dissemination; Television time and frequency dissemination; Time-frequency; Time signal noise; System designs; Transfer standards; Automatic vehicle location; Dissemination of time and frequency; Portable clocks; Radio propagation; *13433*. **SP305-5.**



Satellite time dissemination; Television time and frequency dissemination; Time signal noise; Time-frequency system designs; Transfer standards; Dissemination of time and frequency; Portable clocks; Radio propagation; 13435. SP305-5.

Satellite timing; Slant range; Synchronous satellites; Time delay; N638. SP305-5.

Satellite timing; Spectral density; Standard frequency and time broadcasts; Statistics of frequency and time measurements; Time scales; Time synchronizations; TV timing; VLF timing; Atomic beams; Atomic clocks; Atomic standards; Atomic time; SP300. Volume 5. SP305-4.

Satellite timing; Standard frequency; Standard frequency broadcasts; Time signals; Portable clocks; 9954. SP305-1.

Satellite timing; Synchronous satellite; Clock synchronization; Time-way time transfer; NBSIR 73-348. SP305-6.

Satellite tracking; VHF satellite transponder; Atomic clocks; Clock synchronization; Geodesy; Ionospheric propagation; Navigation; 10955. SP305-2.

Satellites; Spinodal decomposition; Composition modulations; Contrast mechanism; Electron diffraction; Electron microscopy; Lattice images; Modulation images; 15063. SP305-7.

Satellites; Spinodal decomposition; Superlattice reflections; Transmission electron microscopy;  $\delta$ ;  $L_1$ ; Metastable phase; Ordering reaction; 15840. SP305-8.

Satellites; Synchronization; Time; Dissemination; Frequency; N645. SP305-5.

Satellites; Synchronization; Time dissemination; Tracking; Clocks; Propagation delay; 12647. SP305-4.

Satellites; Synchronization; Timing; UHF; Clocks; Delay; Ranging measurements; 12536. SP305-4.

Satellites; TACSAT satellite; Time; Timing accuracy; ATS satellite; LES-6 satellite; NBS satellite timing; 12103. SP305-233. SP305.

Satisfaction assessments; Transit service features; Attitudinal survey; Bus-on-freeway; Exclusive bus lanes; Importance assessments; Interior bus features; Mass transit technology; 13644. SP305-5.

Saturable ferrite; Detector; Magnetic field; Magnetic null; Null measureable; Remanent field; 10586. SP305-1.

Saturated absorption; Accelerated atom beam; Experimental sensitivity; Laser spectroscopy; Laser stabilization; 15905. SP305-8.

Saturated absorption; Coherence; Laser stabilization; Length; Methane; 12296. SP305-3.

Saturated absorption;  $\text{CO}_2$  and He-Ne laser frequency; Methane; 13227. SP305-5.

Saturated absorption;  $\text{CO}_2$  and He-Ne laser frequency; Methane; 14321. SP305-6.

Saturated absorption; Dye lasers; Laser frequency stabilization; 13439. SP305-5.

Saturated absorption; Gas laser theory; Lamb-dip; 13675. SP305-5.

Saturated absorption; Laser spectrometer; Pressure broadening; Resonance line shape; 14067. SP305-6.

Saturated absorption; Laser spectroscopy; Methane spectra; Recoil; 14951. SP305-7.

Saturated absorption; Lasers; Nonlinear spectroscopy; 16093. SP305-8.

Saturated absorption; Slave oscillators; Quantum electronics; Ion storage; Laser stabilization; Maser oscillator; Metrology; 12068. SP305-3.

Saturated absorption; Slave oscillators; Accurate frequency standards; Accurate length standards; Accurate time standards; Accurate voltage standards; Ion storage; Laser stabilization; Maser oscillator; Metrology; Quantum electronics; 12099. SP305-3.

Saturated absorption; Spectroscopy; Laser; 13087. SP305-5.

Saturated absorption; Spectroscopy; Laser; Methane; Optical frequency standards; 13329. SP305-5.

Saturated absorption; Stabilized laser; Transition probability; Frequency standard; Methane resonance; Molecular beam; Ramsey resonance; 13800. SP305-5.

Saturated absorption; Time standard; Frequency stability; He-Ne laser; Laser stabilization; Length standard; Methane frequency standard; 12953. SP305-4.

Saturated absorption; Time standards; Application of standards; Basic standards; Cesium standards; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen standards; Ion storage; Laser stabilization; Rubidium standards; 14830. SP305-7.

Saturated absorption; Time standards; Application of standards; Basic standards; Cesium standards; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen standards; Ion storage; Laser stabilization; Rubidium standards; 15736. SP305-8.

Saturated absorption; Wavelength; Wavelength standards; Interferometry; Laser; Methane; 13228. SP305-5.

Saturated absorption; Wavelength standard; Laser; Neon; Isotope shift; 11118. SP305-2.

Saturated absorption; Wavelengths; Iodine stabilized lasers; Krypton; Pressure broadening; Pressure shifts; 14201. SP305-6.

Saturated absorption; Zeeman effect; Lasers; Methane; 12179. SP305-3.

Saturated absorption spectroscopy; Ultrahigh resolution; Laser spectroscopy; Methane; Molecular hyperfine spectra; 14673. SP305-6.

Saturated absorption spectroscopy; Speed of light; The meter; Laser frequency measurements; Laser strainmeter; 15688. SP305-7.

Saturated absorption spectroscopy; High resolution spectroscopy; Methyl halides; Optical heterodyne spectroscopy; Quadrupole hyperfine interactions; 16407. SP305-8.

Saturated absorption spectroscopy; Lineshape theory; Optical frequency standards; 16610. SP305-8.

Saturated absorption stabilizer; Strainmeter; Geophysics; Interferometry; 14581. SP305-6.

Saturated air; Enhancement factor; Moist air; *J. Res.* 80A No. 1, 41-44 (1976). SP305-8.

Saturated air; Second virial coefficients; Virial coefficients; Enhancement factor; Equation of state; Interaction virial coefficients; Moist air; *J.79A No. 4*, 551-560 (1975). SP305-7.

Saturated air; Solubility of water vapor in air; Water vapor; Concentration of saturated water vapor in air; Enhancement factor; Moist air; Moisture content of saturated air; *J.77A No. 1*, 115-131 (1973). SP305-5.

Saturated and unsaturated moist air; Thermodynamic properties; Computer algorithm; Psychrometrics; BSS21. SP305-2.

Saturated liquid; Clausius-Mossotti function; Compressed liquid; Dielectric constant; Fluorine; Polarizability; 13041. SP305-4.

Saturated liquid; Clausius-Mossotti function; Dielectric constant; Oxygen; Polarizability; 11844. SP305-3.

Saturated liquid; Saturation; Specific heats; Thermodynamic properties; Two-phase; Fluorine; Liquid-vapor coexistence; *J.74A No. 4*, 499-505 (1970). SP305-2.

Saturated liquid; Sound velocity; Compressed liquid; Fluorine; 13685. SP305-5.

Saturated liquid; Sound velocity oxygen; Specific heat ratio; Compressed liquid; Compressibility; 13470. SP305-5.

Saturated liquid; Specific heat; Coexistence; Experimental; Heat capacity; Liquid phase; Oxygen; *J.73A No. 1*, 1-13 (1969). SP305-1.

- Saturated liquid; Specific heat; Methane; Constant volume; Heat capacity; Liquid; *J.78A No. 3, 401-410 (1974). SP305-6.*
- Saturated liquid; Specific heat; Vapor; Constant volume; Ethane; Heat capacity; Liquid; *J. Res. 80A Nos. 5 and 6, 739-759 (1976). SP305-8.*
- Saturated liquid; Table; Density; Experimental; Magnetic suspension densimeter; Normal butane; *16646. SP305-8.*
- Saturated liquid; Table; Torsional crystal; Viscosity; Comparisons; Graph; Methane; *14234. SP305-6.*
- Saturated liquid; Tables; Apparatus; Density; Experimental; Magnetic suspension; Methane; Nitrogen; *16645. SP305-8.*
- Saturated liquid; Tables; Temperatures; Uncertainties; Volume; Volume correction factor; Argon; Compressed liquid; Density; Graphs; Liquid; Nitrogen; Oxygen; Parahydrogen; Pressure; *TN361, Revised October 1972. SP305-5.*
- Saturated liquid; Tables; Temperature; Uncertainties; Volume; Argon; Compressed liquid; Density; Density ratios; Liquid; Nitrogen, oxygen; Parahydrogen; Pressure; *TN361. (Revised). Metric Supplement. SP305-6.*
- Saturated liquid; Temperature; Uncertainties; Volume; Argon; Density; Nitrogen; Oxygen; Parahydrogen; Pressure; *TN361. SP305-1.*
- Saturated liquid; Thermodynamic properties; Compressed liquid; Enthalpy; Entropy; Internal energy; Oxygen; *J.73A No. 1, 25-36 (1969). SP305-1.*
- Saturated liquid; Torsional crystal viscometer; Viscosity; Argon; Compressed gas and liquid; Dilute gas; *13842. SP305-6.*
- Saturated liquid and vapor; Specific heat; Vapor pressure; Velocity of sound; Density; Enthalpy; Entropy; Equation of state; Fixed points (PVT); Joule-Thomson; Latent heat; Melting curve; Oxygen; *J.74A No. 1, 93-129 (1970). SP305-2.*
- Saturated liquid and vapor densities; Coexistence; Coexistence temperatures; Critical constants; Critical density; Critical temperatures; Fluorine; Neon; Oxygen; Orthobaric densities; Parahydrogen; *J.74A No. 2, 221-227 (1970). SP305-2.*
- Saturated liquid densities; Clausius-Mossotti function; Dielectric constant; Dielectric virial coefficients; Molar polarizability; Nitrogen; *14560. SP305-6.*
- Saturated liquid densities; Saturated vapor densities; Vapor pressure; Critical point; Fluorine; Latent heats of vaporization; *11980. SP305-3.*
- Saturated molecular absorption; Wavelength standard; Laser; Methane; Pressure broadening; *10826. SP305-1.*
- Saturated molecular absorption; Wavelength stabilization; Laser wavelength standards; *10969. SP305-2.*
- Saturated salt; Humidity; Humidity chamber; Microbiological growth; Relative humidity; Salt solutions; *NBSIR 75-917. SP305-7.*
- Saturated standard cells; Standard cells; Unsaturated standard cells; Electromotive force; *12037. SP305-3.*
- Saturated standard cells; Standard cells calibration; Statistics; Voltage standard; Control charts; Experiment design; *TN430. SP305.*
- Saturated vapor densities; Vapor pressure; Critical point; Fluorine; Latent heats of vaporization; Saturated liquid densities; *11980. SP305-3.*
- Saturation; Absorption; Asphalts; Felts; Moisture; Roofing; *BSS19. SP305-1.*
- Saturation; Absorption; Laser; Molecular; *13286. SP305-5.*
- Saturation; Double resonance; Infrared; Laser; Methyl bromide; Microwave; Pumping; *10422. SP305-1.*
- Saturation; Fluorescence; Light flux; Optical power limiter; Photomultiplier tube; *9654. SP305-1.*
- Saturation; Parallel pump susceptibility; Sample heating; *10420. SP305-1.*
- Saturation; Self-focusing; Damage threshold; Disk amplifiers; Eikonal; *SP387, pp. 57-62. SP305-5.*
- Saturation; Single-phase; Thermodynamic properties; Fluorine; Heats of vaporization; *12619. SP305-4.*
- Saturation; Source-function; Absorption tube profile; Equivalent-width; Line depth; Line-profiles; Non-LTE; Optical thickness; *11081. SP305-2.*
- Saturation; Specific heats; Thermodynamic properties; Two phase; Fluorine; Liquid-vapor coexistence; Saturated liquid; *J.74A No. 4, 499-505 (1970). SP305-2.*
- Saturation; Stimulated emission; OH microwave transition; Radio astronomy; *13353. SP305-5.*
- Saturation; Thermodynamic wet-bulb temperature; Vapor content; Wet-bulb; Adiabatic saturation; Gas mixtures; Humidity; Hygrometer; Mixing ratio; Moist gas; Psychrometric; Psychrometric factor; *J.72C No. 1, 33-47 (1968). SP305-1.*
- Saturation; Water vapor; Diffusion; Equilibrium; Evaporation; Humidity; Humidity generator; Laminar flow; *J.78A No. 49-51 (1974). SP305-6.*
- Saturation boundary; Temperature; Thermal conductivity; Velocity of sound; Viscosity; Computer programs; Density; Enthalpy; Entropy; Heat capacity at constant pressure; Heat capacity at constant volume; Heat capacity ratio; Heat transfer coefficient; *TN625. SP305-5.*
- Saturation coefficient; Absorption; Autogenous healing; Ductility factor; Dynamic modulus of elasticity; *B5535. SP305-3.*
- Saturation curves; Secondary standard; Signal level calibration; Standard reference materials; Unrecorded reference; Average signal peak level; Computer amplitude reference; Magnetic tape; Master standard; *SP260-29. SP305-3.*
- Saturation curves; Secondary standard; Signal level calibration; Standard reference materials; Unrecorded reference; Average peak signal level; Computer amplitude reference; Magnetic tape; Master standard; *SP260-18. SP305-1.*
- Saturation densities; Critical density; Critical point; Critical temperature; Oxygen; Properties of fluids; P-V-T; *1151. SP305-2.*
- Saturation densities; Critical density; Critical point; Critical temperature; Oxygen; Properties of fluids; P-V-T; *1170. SP305-2.*
- Saturation densities; Specific heats; Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; *TN392. (Revised September 1973). SP305-5.*
- Saturation densities; Specific heats; Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; *TN392. SP305-2.*
- Saturation density; Vapor pressure; Density; Liquids; Nitrogen; P-V-T; Phase boundary; *12186. SP305-3.*
- Saturation effect; OH radiation; Polarization; *9574. SP305-1.*
- Saturation factor; Ultrasonically induced transitions; Angular dependence; Hexadecapole; Hexadecapole transition; Phonon-nuclear interactions; *10577. SP305-1.*
- Saturation factor; 4-3m symmetry; Angular dependence; Hexadecapole; Hexadecapole transitions; Phonon interaction; *9357. SP305.*
- Saturation ion current; Aluminum window; Extinction coefficients; Ionization quantum yield; Photochemical Photoionization; Rare gases; Resonance lamps; *TN40. SP305-1.*
- Saturation magnetization; Vibrating-sample magnetometer; Ferro- and ferrimagnetism; Magnetization; Magnetometer calibration; Measurement of magnetization; *J.70C4-236, 2: 262 (1966). SP305.*
- Saturation properties; Scaling laws; Critical point; Equation of state; Hydrogen; Index of refraction; PVT; *NBSIR 74-3. SP305-6.*
- Saturation properties; Scaling laws; Specific heat; Critical point; Density; Enthalpy; Equation of state; Hydrogen; Index of refraction PVT; *NBSIR 75-814. SP305-7.*

ation spectroscopy; Spectroscopic analysis; Dye laser; isotope separation; Photochemistry; Review; 13818. SP305-6.

ation vapor pressure over water; Vapor pressure; Vapor pressure of water; Water vapor; Steam; Virial coefficients; Clausius-Clapeyron equation; 175A No. 3, 213-230 (1971). SP305-3.

ation vapor pressure over water; Steam; Vapor pressure; Vapor pressure of water; Virial coefficients; Clapeyron equation; Res. 80A Nos. 5 and 6, 775-785 (1976). SP305-8.

di Arabia; Standardization; Tentative standards; Building codes; Industrialization; Less-developed country; SASO; BSIR 75-976. SP305-8.

ing; Silicon; Standard; Weighing; Density; Etching; Grinding; NBSIR 76-1019. SP305-8.

Alloys; Hyperfine field; Mn; Mössbauer effect; Pd; 13326. SP305-5.

Pd; Alloys; Cu; Hyperfine fields; Magnetism; Mn; Mössbauer effect; Ni; 15016. SP305-7.

YIG; Ferrites; Hyperfine fields; Mössbauer; 14459. SP305-

and microwave frequencies; X-band; Electron-paramagnetic-saturation spectra; High resolution; L-uncoupling effects; Microwave frequencies; 9606. SP305-1.

's; Securities and tax regulation; Small firm finances; technological change; Technology subsidies; Venture capital; capital market imperfections; Federal technology policy; BS-GCR-ETIP 76-08. SP305-8.

's; Securities and tax regulation; Small firm finances; technological change; Technology subsidies; Venture capital; capital market imperfections; Federal technology policy; BS-GCR-ETIP 76-12. SP305-8.

tyl radical; Shock tube; *t*-butyl radical; Thermal decomposition; 2,2,3-trimethylpentane; Bond energy; Cyclohexyl radical; 3,4-dimethylhexane; Heats of formation; *n*-propyl radical; 2562. SP305-4.

<sup>101.102.104</sup>Ru; <sup>127</sup>I; Adjustment; Evaluation; Fission products; sensitivity analysis; SP425, pp. 165-168. SP305-7.

lar additivity theory; Spectral line broadening; Unified theory; Relaxation theory; 13867. SP305-6.

lar and quadrupolar coupling constants and relaxation effects; Boron-10; Boron-11; Dimethoxyborane; Proton; Pulsed nuclear magnetic resonance; 173A No. 2, 195-199 (1969). SP305-1.

lar coupling; Sensitivity; <sup>13</sup>C; Fourier transform; Nmr; Relaxation; 12378. SP305-3.

lar diffraction theory; Diffraction; Diffraction losses; Fresnel diffraction; Kirchhoff diffraction theory; Photometry; Radiometry; TNS94-8. SP305-6.

lar relaxation; Spin-rotation; *T*<sub>1</sub>; *T*<sub>2</sub>; <sup>13</sup>C relaxation; Chemical shift anisotropy; Dipole-dipole; 12592. SP305-4.

lar-potential; Strain-energy; Thermodynamics; Viscoelasticity; Constitutive equation; Continuum mechanics; Elasticity; isotropy; Material symmetry; Mechanical properties; Rheology; 14689. SP305-6.

le; Tape; Temperature; Tension; Graduation; Length; NBSIR 74-451. SP305-6.

le models; Thermal radiation; Fire tests; Flashover; Heat release rate; SP411, pp. 139-153. SP305-6.

le models; Thermal radiation; Fire growth; Fire tests; Flashover; Room fires; NBSIR 75-710. SP305-7.

led equation; Steam; Critical density; Critical exponents; Critical pressure; Critical region; Critical temperature; Equation of state; Linear model; 15730. SP305-8.

evaluated equation of state; Bose condensation; Critical eigenvalues; Critical phenomena; 10882. SP305-2.

ale-model; Smoke movement; Stratified flow; Theory; Correlates; Fire induced flow; Recirculating flow; 15630. SP305-7.

ales; Scaling; Additive scales; Color geodesics; Color scales; Geodesics; Interval scales; Ratio scales; 9820. SP305-1.

Scales; Survey; Temperature compensation; Uniformity; Weights and measures; Digital indicators; Drained weight; Laws and regulations; Metrication; Metric conversion; Net weight; Package control; Petroleum products; SP407. SP305-7.

Scales; Tests; Codes; Examination procedure; Inspection; Meters; Outlines; H112. SP305-5.

Scaling; Additive scales; Color geodesics; Color scales; Geodesics; Interval scales; Ratio scales; Scales; 9820. SP305-1.

Scaling; Schlieren method; Specific heat; Speed of sound; X-ray scattering; Critical region; Dielectric constant; Equation of state; Homogeneity; Light scattering; Power laws; Refractive index; 14932. SP305-7.

Scaling; Steam; Universality; Critical exponents; Critical region; Homogeneity; Polar fluids; 15733. SP305-8.

Scaling; Thermodynamic properties; Coexistence curve; Critical point; Liquid-gas phase transition; Parametric form; 12156. SP305-3.

Scaling; User evaluations; Visual environment; Color schemes; Field studies; Glare; Illuminance; Matrix analysis; Multidimensional scaling; Performance criteria; Preference scaling; SP361, Vol. 1, pp. 121-129. SP305-4.

Scaling; *W*-value; Charged particle penetration; Dosimetry; Electron slowing down; Electron transport; 15156. SP305-7.

Scaling law; Compressibility; Critical exponents; Critical isotherm; Critical region; Density gradients; Equation of state; Gases; Gravity effect; 9757. SP305-1.

Scaling law; Simple materials assumption; Elasticity; Finite torsion; Natural rubber; 16278. SP305-8.

Scaling law; Specific heat; Chemical potential; Critical exponents; Critical parameters; Critical region; Equation-of-state; Fluids; 11174. SP305-2.

Scaling law; Specific heat; Steam; Water; Coexistence curve; Compressibility; Critical anomalies; Critical exponents; Critical region; Equation of state; 13059. SP305-5.

Scaling law; Specific heat; Thermodynamic anomalies; Vapor pressure; Chemical potential; Critical region; Lattice gas; 10603. SP305-1.

Scaling law; Specific heat; Xenon; Compressibility; Critical point; Equation of state; Fluid; Helium; Low temperature; Methane; J76A No. 3, 207-211 (1972). SP305-4.

Scaling law; Vapor pressure; Burnett method; CO<sub>2</sub>; Coexistence curve; Controlled clearance gage; Critical exponent; Critical isochore; Critical region; Metastable states pressure calibration; 12711. SP305-4.

Scaling laws; Carbon dioxide; Critical phenomena; Critical region of gases; Equation of state; Parametric equation; 14677. SP305-6.

Scaling laws; Critical exponents; Critical point fluids; Curie point; Equation of state; Ferromagnets; 11712. SP305-2.

Scaling laws; Critical phenomena; Equation of state; Parametric equation of state; 12441. SP305-4.

Scaling laws; Critical point; Equation of state; Hydrogen; Index of refraction; PVT; Saturation properties; NBSIR 74-357. SP305-6.

Scaling laws; Scaling symmetry; Universality; Van der Waals' equation; Vapor pressure curve; Coexistence curve; Corresponding states; Critical exponents; Critical isotherm; Rectilinear diameter; 14405. SP305-6.

Scaling laws; Schofield parameterization; Critical point; Equation of state; 11273. SP305-2.

Scaling laws; Specific heat; Critical point; Density; Enthalpy; Equation of state; Hydrogen; Index of refraction PVT; Saturation properties; NBSIR 75-814. SP305-7.

Scaling laws; Specific heat; Thermodynamic properties; Vapor pressure; Xenon; CO<sub>2</sub>; Chemical potential; Critical point parameters; Critical region; Fluids; He<sup>4</sup>; J73A No. 6, 563-583 (1969). SP305-1.

- Scaling laws; Statistical analysis; Critical coefficients; Critical exponents; Critical region; Density profile; Dielectric constant; Linear model; Oxygen; 14772. SP305-7.
- Scaling laws; Statistical analysis; Steam; Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; Methane; NBS equation; 15601. SP305-7.
- Scaling laws; Statistical analysis; Steam; Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; Methane; NBS equation; JPCRD 5, No. 1, 1-52 (1976). SP305-8.
- Scaling laws; Test method; Flame spread; Floor covering materials; Model corridor; NBSIR 73-199. SP305-6.
- Scaling laws; Thermodynamic scaling; Critical region; Equation of state; 12489. SP305-4.
- Scaling of color; Color; Gloss; Light; Perception of color; Photometry; Physiological optics; Psychophysics; 9336. SP305.
- Scaling symmetry; Universality; Van der Waals' equation; Vapor pressure curve; Coexistence curve; Corresponding states; Critical exponents; Critical isotherm; Rectilinear diameter; Scaling laws; 14405. SP305-6.
- Scaling-laws; Critical indices; Equation of state; 10522. SP305-1.
- Scandium; Titanium; Transition probabilities; Allowed transitions; Line strengths; Oscillator strengths; *J. Phys. Chem. Ref. Data* 4, No. 2, 263-352 (1975). SP305-7.
- Scandium compounds; Tantalum compounds; Titanium compounds; Vanadium compounds; Yttrium compounds; Zirconium compounds; Enthalpy; Entropy; Gibbs energy of formation; Hafnium compounds; Heat of formation; Niobium compounds; TN270-5. SP305-3.
- Scandium group and rare-earth gaseous monoxides; Specific heat; Total emittance; Vanadium; Zirconium; Bibliography on spectroscopy of fluorides and oxides of the lanthanide series; Calculation of dissociation energies; Electrical resistivity; Enthalpy of transition; NBSIR 74-600. SP305-7.
- Scandium oxide; Boric oxide; Liquid immiscibility; Oxide systems; Phase diagram; 9476. SP305.
- Scandium oxide; Crystal growth; F centers; Flame fusion; Magnetic susceptibility; Nonstoichiometry; SP364, pp. 385-395. SP305-4.
- Scandium (Sc); Silver (Ag); Titanium (Ti); Zirconium (Zr); Copper; Direct versus nondirect transitions; Electronic density of states; Gold (Au); Nondirect transitions; Optical density-of-states; Photoemission; SP323, pp. 205-208. SP305-4.
- SCANIR; Secondary ion mass spectroscopy; Semiconductor devices; Silicon; Surface analysis; X-ray photoelectron spectroscopy; Auger spectroscopy; Depth profiles; Electron beam induced imaging; ESCA; Insulator films; Interface characteristics; Internal photoemission; SP400-23. SP305-8.
- Scanner; Classification; Computer; Fingerprint; Identification; Pattern recognition; 16030. SP305-8.
- Scanning; Spherical; Symmetry; Antennas; Arrays; Coordinate transformations; Data processing; Group representations; Measurements; Near field; Non-planar; Patterns; NBSIR 75-809. SP305-7.
- Scanning; Stability; Standard; Wavelength; Fringe; Interferometer; Laser; Optical; Photoelectric; Precision; 9942. SP305-1.
- Scanning; Television systems; Variability; Variance (statistics); Aggregates; Anisotropy; Automation; Computers; Mechanical properties; Microscopes; Microstructure; Particle distribution; Phase mapping; Quality control; 12935. SP305-4.
- Scanning acoustic microscope; Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Silicon dioxide; Silicon on sapphire; Spreading resistance; Test patterns; SP400-25. SP305-8.
- Scanning analyzer; Spectral distribution; Computer; Damage-risk criteria; Hearing loss; Noise control; 12. SP305-4.
- Scanning calorimetry; Theory of calorimetry; Thermal analysis; Heats of transition; 13333. SP305-5.
- Scanning electron microanalysis; X-ray microanalysis; X-ray source size; Backscattered electrons; Electron specimen interaction; Monte Carlo simulation; Particulate analysis; 15038. SP305-7.
- Scanning electron micrographs; Convection flows; Desalination; Interfacial turbulence; Membranes; Membrane structure; Polymer precipitation; 14032. SP305-6.
- Scanning electron microprobe; X-ray microscopy; Computed tomography; Metallography; Petrography; Photomicrography; J73A No. 2, 113-123 (1969). SP305-1.
- Scanning electron microscope; Circular holes; Face versus edge oxidation; Impurity effect on oxidation; Layers; Pyrolytic graphite; 13170. SP305-5.
- Scanning electron microscope; Electron detector; Image contrast; Magnetic domains; 12346. SP305-3.
- Scanning electron microscope; Iron-silicon transformer; Magnetic contrast; Magnetic domains; 14450. SP305-6.
- Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; SP400-17. SP305-7.
- Scanning electron microscope; Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Shear test; Sheet resistivity; Silicon; Silicon on sapphire; Spreading resistance; Test patterns; Thermal resistance; SP400-19. SP305-8.
- Scanning electron microscope; Iron-silicon transformer; Magnetic contrast; Magnetic domain images; Magnetic domains; Monte Carlo electron trajectory calculations; SP460, pp. 151-164 (Dec. 1976). SP305-8.
- Scanning electron microscope; Secondary electrons; Target current; Derivative signal; Electron probe; Image; 11540. SP305-2.
- Scanning electron microscope; Signal differentiation; Specimen current images; Channelling patterns; Iron; Lunar samples; Magnetic contrast; 14613. SP305-6.
- Scanning electron microscope; Smoke; Carbon monoxide; Isothermal precipitation; Particulate mass; SP411, pp. 165-170. SP305-6.
- Scanning electron microscope; Smoke; Carbon monoxide; Isothermal precipitation; Heat flux; Oxygen depletion; Particulate mass; NBSIR 75-901. SP305-7.
- Scanning electron microscope; Stage; Large sample; Low magnification; 14510. SP305-6.
- Scanning electron microscope; Strain effects; Iron-silicon alloy; Lorentz force; Magnetic domains; Photomicrography; 15. SP305-7.
- Scanning electron microscope; SEM applications; SEM dynamic experiments; SEM specimen preparation; SEM stereomicroscopy; SEM microanalysis; 15245. SP305-7.
- Scanning electron microscope; Signal processing; Conduction; Electron beam instrumentation; Electron probe microanalyzer; Instrumental development; 15249. SP305-7.
- Scanning electron microscope; SEM contrast formation; SEM image defects; SEM image formation; SEM image quality; Signal processing; 15250. SP305-7.



- ning electron microscope; Surface finish analysis; Surface morphology; Surface roughness; Surface topography; Three-dimensional images; Ceramic Materials; CESEMI (Computer evaluation of scanning electron microscope images); *SP348*, p. 309-316. **SP305-4.**
- ning electron microscope; Surface effects; Electron beam image; Electron beam energy deposition; Integrated circuits; Ionizing radiation effects; *15786*. **SP305-8.**
- ning electron microscope; Dimensional metrology; Integrated circuits; Line-width measurements; Microelectronics; Optical microscope; Photomasks; *15864*. **SP305-8.**
- ning electron microscope; Silicon steel; Transformer steel; Backscattered electrons; Domain walls; Magnetic domains; *1921*. **SP305-8.**
- ning electron microscope; Aluminum wire; Nondispersive x-ray analysis; Overheated receptacle; *16317*. **SP305-8.**
- ning electron microscope; Transistor; Ultrasonic bonding; Wire bonding; Aluminum wire; High reliability; Integrated circuit; Metallization; *TN785*. **SP305-5.**
- ning electron microscope; Voltage contrast; Cathodoluminescence; Electron beam induced conductivity contrast; Electron channeling contrast; Magnetic domain contrast; *1251*. **SP305-7.**
- ning electron microscope; Signal differentiation; Signal processing; Y-modulation; Black level suppression; Nonlinear amplification; *15425*. **SP305-7.**
- ning electron microscope; Bend contours; Contrast formation; Crystalline materials; Electron channelling contrast; Electron channelling patterns; *15548*. **SP305-7.**
- ning electron microscope; Weathering tests; Non-dispersive x-ray spectrometer; Corrosion; Pinhole-type defects; Porcelain enamel; *13714*. **SP305-5.**
- ning electron microscope; X-ray spectrometer shield; Increased sensitivity of touch alarm; *12060*. **SP305-3.**
- ning electron microscope; Cleavage surfaces; Electron channeling contrast; Embrittled iron; Grain surfaces; *14312*. **SP305-6.**
- ning electron microscope; Contrast measurement; Image contrast; Iron-silicon alloy; Magnetic domains; Nickel; *14049*. **SP305-6.**
- ning electron microscope; Contrast measurement; Image contrast; Iron-silicon alloy; Magnetic domains; Nickel; *14436*. **SP305-6.**
- ning electron microscope; Electron probe microanalyzer; Lunar age; Lunar materials; Meteorites; *12495*. **SP305-4.**
- ning electron microscope; Electron probe microanalysis; Lunar samples; Lunar simulation; Lunar thermal history; Meteorites; *11810*. **SP305-3.**
- ning electron microscope; Electron backscatter; Cathodoluminescence; Electron probe; Microanalysis; X-ray spectrometry; *TN278*. **SP305.**
- ning electron microscope; Electron probe microanalysis; Microanalysis; Metallography; Nondispersive x-ray analysis; Point Pleasant, W. Va. bridge; *11609*. **SP305-2.**
- ning electron microscope; Secondary electron detection; Voltage contrast; Computer aided design; Contamination tests; Electron trajectories; *12717*. **SP305-4.**
- ning electron microscope; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Spreading resistance; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Beam leads; *TN806*. **SP305-5.**
- ning electron microscope; Semiconductor devices; Semiconductor materials; Semiconductor process control; Thermal resistance; Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; *SP400-1*. **SP305-**
- Scanning electron microscopy; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Ultrasonic bonding; *SP400-8*. **SP305-7.**
- Scanning electron microscopy; Specimen preparation; Analytical accuracy; Electron probe microanalysis; Elemental mapping; Energy dispersive analysis; *14048*. **SP305-6.**
- Scanning electron microscopy; Strain analysis; X ray; Channelling of electrons; Crystal orientation; Kossel; Lattice spacing determination; Microdiffraction; *14913*. **SP305-7.**
- Scanning electron microscopy; Scanning transmission electron microscopy; Auger electron spectrometry; Electron probe x-ray microanalysis; Energy loss spectrometry; *15030*. **SP305-7.**
- Scanning electron microscopy; Substrates; Surface defects; Surface segregation; Thin film adhesion; Thin film circuit imperfections; Aluminum oxide; Auger electron spectroscopy; Crystallographic texture; Ion microprobe; *SP348*, pp. 271-290. **SP305-4.**
- Scanning electron microscopy; Subsurface damage; Transmission electron microscopy; Abrasion; Aluminum oxide; Dislocations; Ion-bombardment; Microtwins; *SP348*, pp. 333-339. **SP305-4.**
- Scanning electron microscopy; Surface analysis; Contrast; Electron probe microanalysis; Electron spectroscopy for chemical analysis (ESCA); Ion microprobe analysis; *15142*. **SP305-7.**
- Scanning electron microscopy; Electron probe microanalysis; Empirical methods; Fe-Si alloys; Monte Carlo methods; Quantitative analysis; *15246*. **SP305-7.**
- Scanning electron microscopy; SRM-480; Empirical methods; Minicomputers; On-line analysis; Quantitative electron probe microanalysis; *15248*. **SP305-7.**
- Scanning electron microscopy; Thin film x-ray analysis; X-ray continuum radiation; Elemental distribution; Energy dispersive x-ray analysis; Light element analysis; *15771*. **SP305-8.**
- Scanning electron microscopy; Electron beam damage; Electron beam energy deposition; Ionizing radiation; Microelectronic devices; *15963*. **SP305-8.**
- Scanning electron microscopy; Semiconductor devices; Device inspection; Electron-beam-induced current; Microelectronics; p-n junctions; *16449*. **SP305-8.**
- Scanning electron microscopy; Thin film analysis; Electron probe microanalysis; Electron-solid interactions, magnetic domains; Monte Carlo electron trajectory calculations; Particle analysis; *SP460*. **SP305-8.**
- Scanning electron microscopy; Transformer steel; Contrast mechanism; Electron backscattering energy filtering; Iron; Magnetic domains; Monte Carlo methods; *13731*. **SP305-5.**
- Scanning electron microscopy; Transformer alloy; Bitter patterns; Contrast mechanisms; Magnetic domains; Nickel; *13937*. **SP305-6.**
- Scanning electron microscopy; X rays; Electron microprobe; Ion microprobe; Mass spectrometry; Microanalysis; *11631*. **SP305-2.**
- Scanning electron microscopy; X-ray microanalysis; Deposited thin film; Electron beam metal deposition; *13775*. **SP305-5.**
- Scanning electron microscopy; X-ray spectrometry; Cathodoluminescence; Electron backscatter; Electron probe; Microanalysis; *10651*. **SP305-1.**
- Scanning electron microscopy; X-ray microanalysis; Electron probe microanalysis; Electron scattering; Electron-specimen interactions; Monte Carlo electron trajectory calculations; *SP460*, pp. 5-14 (Dec. 1976). **SP305-8.**
- Scanning electron microscopy; Secondary electrons; X rays; Backscattered electrons; Electron probe microanalysis; Monte Carlo electron trajectory simulation; *SP460*, pp. 15-44 (Dec. 1976). **SP305-8.**

Scanning electron microscopy; X-ray generation; Electron microscopy; Electron probe microanalysis; Electron-specimen interactions; Monte Carlo electron trajectory simulation; *SP460*, pp. 45-60 (Dec. 1976). **SP305-8.**

Scanning electron microscopy; X-ray microanalysis; Electron energy loss; Landau electron deceleration theory; Microanalysis; Monte Carlo electron trajectory calculations; *SP460*, pp. 61-96 (Dec. 1976). **SP305-8.**

Scanning electron microscopy; Thin films; X-ray analysis; Electron probe microanalysis; Monte Carlo electron trajectory calculations; Nuclear backscattering analysis; *SP460*, pp. 129-138 (Dec. 1976). **SP305-8.**

Scanning electron microscopy; Contrast calculations; Energy filtering; Low-loss electron image; Magnetic contrast; Monte Carlo electron trajectory calculations; *SP460*, pp. 139-150 (Dec. 1976). **SP305-8.**

Scanning electron microscopy; Cement; Compressive strength; Flexural strength; Fracture mechanics; Polymer impregnated cement; Polymer impregnated mortar; Porosity; *BSS83*. **SP305-8.**

Scanning electron microscopy (SEM); X-ray photoelectron spectroscopy (ESCA); Adhesion failure; Cohesive failure; Polymeric bond failure; *15283*. **SP305-7.**

Scanning Fabry-Perot interferometer; YAG; Birefringence; Fused silica; Optical spectrum analyzer; Photoelastic effect; Sapphire; *SP387*, pp. 254-258. **SP305-5.**

Scanning interferometer; Cw dye laser; Frequency control; Laser wavelength determination; *16649*. **SP305-8.**

Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; *SP400-12*. **SP305-7.**

Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; *SP400-17*. **SP305-7.**

Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Shear test; Sheet resistors; Silicon; Silicon on sapphire; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Transistors; *SP400-19*. **SP305-8.**

Scanning low energy electron probe; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Silicon dioxide; Silicon on sapphire; Spreading resistance; Test patterns; Thermally stimulated current; Thermal resistance; Ultrasonic wire bonding; *SP400-25*. **SP305-8.**

Scanning Michelson interferometer; Schottky capacitance-voltage; Spreading resistance; Automation; Beveling; Comparison; Four-point probe; Incremental MOS capacitance-voltage; Incremental sheet resistance; Infrared spectrometer; Ion microprobe; *SP400-10*, pp. 155-168. **SP305-6.**

Scanning microscopes; Television microscopes; Analysis of microstructures; Automatic image analysis; Gestalt of a material; Microarchitecture; Patternness; *12664*. **SP305-4.**

Scanning microscopes; Television microscopes; Analysis of microstructures; Automatic image analysis; Gestalt of a material; Microarchitecture; Patternness; *12702*. **SP305-4.**

Scanning transmission electron microscopy; Auger electron spectrometry; Electron probe x-ray microanalysis; Energy loss spectrometry; Scanning electron microscopy; *15030*. **SP305-7.**

S-carboxymethyl-L-cysteine sulfone; X-ray, zwitterion; Hydrogen bonding; Single crystal; Structure determination; *16565*. **SP305-8.**

Scatchard-Black method; Anion binding; Anionic detergent; Bovine serum albumin; Electrostatic interaction; Equilibrium dialysis; Hydrophobic interaction; Permeable membrane; *10869*. **SP305-2.**

Scatter; Absorption; Dielectric layers; Irregularities; Me thin films; Microirregularities; Overcoating; Plasmons; *J. 80A No. 4*, 643-658 (1976). **SP305-8.**

Scatter storage; Collision resolution; Hash tables; Polyn search; Pseudo-random numbers; *15669*. **SP305-7.**

Scattered intensity; Small angle x-ray scattering; Correlation function; Critical phenomena; Critical scattering; *SP305-1.*

Scattered light; Diamond turning; Laser damage; Metal micromachining; Optical figure; *SP435*, pp. 49-56 (1976). **SP305-8.**

Scattered light; Infrared absorption; Laser damage; Laser mirror; Laser optical train; Laser window; Microroughness; Optical figure; *SP414*, pp. 23-30. **SP305-6.**

Scattered light; Smoke detectors; Test methods; Aerosol ionization chambers; Light attenuation; *NBSIR 76-1*. **SP305-8.**

Scattered light; Surface absorption; Alkali-halide; KCl; Laser windows; Optical figure; Polishing; *SP435*, pp. 20-28 (1976). **SP305-8.**

Scattered light; Surface figure; Blur circle; Circular diffraction; Diamond-turned mirrors; Diffraction pattern; Machine cusp; *SP435*, pp. 57-65 (Apr. 1976). **SP305-8.**

Scattered light; Surface roughness; Autocovariance; Surface damage statistical characterization of surface; FECD interferometry; *SP414*, pp. 157-162. **SP305-6.**

Scattered neutron; Angular distribution; Inelastic scattering; Proton emission; *SP425*, pp. 350-353. **SP305-7.**

Scattered radiation; Standardization; Calibration; Cavity ionization chamber; Cesium-137; Exposure rate; *J74A No. 1*, 1 (1970). **SP305-2.**

Scattering; Absorption; Kubelka-Munk coefficients; Optical constants; *10518*. **SP305-1.**

Scattering; Albedo; Collimation; Dosimetry; Ion chamber;  $\gamma$  dosimetry; Neutrons; *SP456*, pp. 335-341 (Nov. 1976). **SP305-8.**

Scattering; Angular difference; He, He<sup>+</sup>; Inelastic scattering; Resonances; *9404*. **SP305.**

Scattering; Average; Cross-section; Distribution; Electrical Energy; Isotropic; Motion; *10379*. **SP305-1.**

Scattering; Contaminants; Cryogenics; Eddy currents; Eddy current tests; Electrical resistivity; Nondestructive tests; *PT 12974*. **SP305-4.**

Scattering; Cross section; Differential; Elastic; Inelastic; Neutron; *SP425*, pp. 883-885. **SP305-7.**

Scattering; Crystal structure; Diffraction; Molecular structure; Neutron; Nuclear reactor; Radiation; *TN567*. **SP305-3.**

Scattering; Cylinder scattering; Electromagnetic scattering; Lossy dielectric; Multilayer cylinder; Reference value; *15648*. **SP305-7.**

Scattering; Depth; Deuterium; Diffusion; Elastic; Helium; Migration; Oxide; Proton; Range; *SP425*, pp. 485-490. **SP305-7.**

Scattering; Electron energy loss; Germanium; Material properties; Optical properties; *15387*. **SP305-7.**

Scattering; Instrument function; Iterative computation; Nitrogen arc; Radiance; Radiant sources; *11662*. **SP305-7.**

Scattering; Scattering theory; Surface roughness; Thermal emittance; Bibliography; Emittance; Heat transfer; Measurement techniques; Periodic surfaces; Polarization; Radiative surfaces; Reflectance; Reflectance of coherent radiation; *J. Res. 80A No. 2*, 207-220 (1976). **SP305-8.**

Scattering; Second virial; Viscosity; Gas; Intermolecular potential; Potential function; *12162*. **SP305-3.**

Scattering; Selection-rules; Group theory; Inelastic; Neutron; Rigid-molecule; *13151*. **SP305-5.**

- tering; Semiconductor; Magnetic field; Maxwellian distribution; 12078. SP305-3.
- tering; Simulation; Spectral; Absorbing; Anomalous dispersion; Carbon dioxide; Cryodeposit; Cryogenics; Frost; Inward; Integrating sphere; Mars; Reflectance; SP336, pp. 15-183. SP305-3.
- tering; Slowing down density; Cross sections; Epithermal energy; Group averaging; Neutron; Reactor spectrum; 10511. SP305-1.
- tering; Small angles; U; Fast neutrons; Pb; SP425, pp. 948-99. SP305-7.
- tering; Solid; Alloy; CuNi; Incoherent; Liquid; Neutron; 598. SP305-2.
- tering; S-parameters; Transistors; Vector voltmeter; Delay time; Electronics; High-frequency probes; Sandia bridge; BSIR 73-152. SP305-6.
- tering; Spectrophotometry; Absorption; Color; Colorant; Isomerism; Paint; 11010. SP305-2.
- tering; Spectrophotometry; Specular gloss; Accuracy; Appearance; Error analysis; Gloss; Photometry; Reflectance; N594-10. SP305-7.
- tering; Spectrophotometry; Transmittance; Accuracy; Appearance; Colorimetry; Definition of spectrophotometry; Error analysis; Photometry; Radiation transfer; Reflectance; N594-9. SP305-6.
- tering; Spectrophotometry; Translucency; Transmittance; Nitrolic glass; Blurring effect; Edge loss; Error analysis; Flux loss; Plastics; Reflectance; TN594-12. SP305-8.
- tering; Spin-polarization; Electron; Experiment; LEED; Multi-photon; Photoionization; Review; 15900. SP305-8.
- tering; Standardization; Tissue characterization; Ultrasound; Blood; Cross-section; Diagnosis; SP453, pp. 29-47 Oct. 1976). SP305-8.
- tering; Static potential; Vibrational excitation; Close-coupling calculations; Crossed beams; Cross sections; Differential cross sections; Electron scattering; Inelastic scattering; Nitrogen molecules; Polarization potential; 16533. SP305-8.
- tering; Steel; Surfaces; Cobalt; Grinding; Mössbauer effect; 4451. SP305-6.
- tering; Structure; Transport; Diffraction; Inelastic; Interaction; Materials; Neutron; Properties; Reaction; 10553. SP305-1.
- tering; Substrates; Surface roughness; Thin films; Far ultraviolet; Optical polishing; 9812. SP305-1.
- tering; Sum rules; Compton scattering; Dispersion relations; Photon; Proton; 14114. SP305-6.
- tering; Surface scattering; Tissue characterization; Ultrasonic spectroscopy; Ultrasound diagnosis; Acoustic impedance; Bragg diffraction; Computer processing; Frequency-dependent attenuation; Internal scattering; Myocardial infarction; SP453, pp. 167-196 (Oct. 1976). SP305-8.
- tering; SU(3); Asymptotic; Baryons; Mesons; Reaction; 0296. SP305-1.
- tering; Temperature dependence; Wavelength dependence; Multilayer dielectric mirror; Optical absorbance; Reflectance; SP435, pp. 230-235 (Apr. 1976). SP305-8.
- tering; Theory; Atom; Collisions; Electron; Low energy; Review; 15883. SP305-8.
- tering; Time constant; Contaminants; Cryogenics; Eddy currents; Eddy current tests; Electrical resistivity; Non-destructive tests; Purity; 12583. SP305-4.
- tering; Time-of-flight; Cross section; Hydrogen; Neutron; Review; 12478. SP305-4.
- tering; Tissue characterization; Tissue parameters, tissue signature; Tumor; Ultrasonic spectroscopy; Ultrasound; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; Medical diagnosis; Microscopy; Pattern recognition; Reconstruction; SP453. SP305-8.
- Scattering; Tissue characterization; Tissue parameters; Tumor detection; Ultrasound; Diagnosis; Doppler effect; Optimization; Resonance; SP453, pp. 11-17 (Oct. 1976). SP305-8.
- Scattering; Tissue characterization; Ultrasound; Bragg diffraction; Diagnosis; Frequency dependence; Orientation dependence; SP453, pp. 197-206 (Oct. 1976). SP305-8.
- Scattering; Tissue characterization; Ultrasound; Diffraction; Fourier transform; SP453, pp. 213-228 (Oct. 1976). SP305-8.
- Scattering; Ultrasound; Angular dependence; Blood; Compressibility; Density; Distribution function; Erythrocytes; Hematocrit; SP453, pp. 207-212 (Oct. 1976). SP305-8.
- Scattering; Vacancies; Absorption; Electrotransport; Ionic segregation; Laser; Momentum transfer; Phototransport; SP462, pp. 365-370 (Dec. 1976). SP305-8.
- Scattering; Waveform distortion; Alkali-halides; Alkaline-earth fluorides; Bulk damage; Focal spot diameter; Inclusion damage; Interference ripples; Pulsed DF laser damage; Sapphire; SP462, pp. 136-144 (Dec. 1976). SP305-8.
- Scattering amplitude; Coplanar and non-coplanar events; Differential cross section; Double scattering term; Off-the-energy-shell behaviour; Potential model calculation; Proton-proton bremsstrahlung; 10633. SP305-1.
- Scattering amplitude; Theory; X-ray diffraction; Absorption; Distortion; Lattice sum; Line broadening; Perfect crystal; 10573. SP305-1.
- Scattering amplitude; X-ray diffraction; Dynamical theory; Imperfect crystal; Line broadening; 11638. SP305-2.
- Scattering amplitudes; Weinberg; Gauge theories; Lepton; Muon; M-spin; 14942. SP305-7.
- Scattering angle; Solid angle; Spectrometer; Absolute cross section; Beam profile; Electron scattering; TN871. SP305-7.
- Scattering calculations; Hartree-Fock approximation; Induction energy; Interaction potential; Radial coefficients; 13307. SP305-5.
- Scattering centers; Ion channeling; Laser-damaged GaAs; Rutherford backscattering; SP414, pp. 190-192. SP305-6.
- Scattering chamber; Semiconductor detectors; Detector telescope; Large area detectors; Photonuclear physics apparatus; 9298. SP305.
- Scattering chambers; Transmission of energy analyzers; Absolute electron energy; Calculation of scattering geometries; Differential electron scattering cross section; Doppler broadening; Elastic electron scattering cross sections; Electron multiplier; Faraday cup; 11034. SP305-2.
- Scattering coefficient; Anharmonic ratio; Automatic network analyzers; Cross ratio; Microwave network analysis; Reflection coefficient; TN623. SP305-4.
- Scattering coefficients; Standards; 2-ports; Waveguide; Waveguide discontinuities; Automatic network analyzers; Coaxial; Coaxial line step discontinuities; TN657. SP305-6.
- Scattering coefficients; Statistical models; Absolute absorptivities; Continuum models; Diffuse reflectance; Radiative transfer; Reflectance spectra; J. Res. 80A No. 4, 567-583 (1976). SP305-8.
- Scattering coefficients; Transmission coefficient; Waveguide standards; 2-port standards; Automatic measurement; Coaxial standards; Network parameters; Reflection coefficient; 14739. SP305-7.
- Scattering corrections; Threshold detectors; Activity measurement; Cross sections; Fission spectrum; Neutron source; SP425, pp. 273-276. SP305-7.
- Scattering cross section; Slit correction; Small-angle x-ray scattering; Distribution of intensity; Integral equation; J70A6-419, 467-471 (1966). SP305.
- Scattering diagrams; 360° scattering by particles; Aerosol light scattering; Aerosol size measurements; Aerosol spectrometer; Aerosol sprays; Laser light scattering by aerosols; Refractive index; SP412, pp. 41-56. SP305-6.

- Scattering function; Chain correlation; Chain statistical parameters; Light scattering; Monte-Carlo computations, chase transition; 15209. **SP305-7.**
- Scattering function; Short wavelength; Collective excitations; Liquid rubidium; Neutron scattering; Propagating modes; 15207. **SP305-7.**
- Scattering functions; Cloud physics; Infrared light; Light scattering; Mie Theory; 9228. **SP305.**
- Scattering geometry; Uniform sensitivity neutron counter; Differential elastic scattering cross section; Fast neutrons; *SP425*, pp. 886-888. **SP305-7.**
- Scattering matrices; Adjoint operators; Electroacoustic transducers; Reciprocity; *NBSIR 73-329*. **SP305-6.**
- Scattering matrix; Dynamical diffraction; Imperfect crystal; 13195. **SP305-5.**
- Scattering matrix; Shell model; S-matrix eigenstates; Nuclear continuum states; Nuclear reactions; Nuclear scattering; 9658. **SP305-1.**
- Scattering matrix; Spectral line broadening; Stark broadening; Symmetry group; Time ordering; Balmer lines; Four dimensional rotation group; Hydrogen; Plasma; Plasma broadening; Pressure broadening; 15009. **SP305-7.**
- Scattering matrix; Transducers; Linear differential operators; Reciprocity relations; *J.79B Nos. 1 and 2*, 17-39 (1975). **SP305-7.**
- Scattering matrix; Waveguide junction; Waveguide n-port; Admittance matrix; Impedance concepts; Impedance matrix; 10204. **SP305-1.**
- Scattering matrix analysis; Cascaded multiports; Equivalent generator; Generalized reflectometers; Multiports; Reduced multiports; 11071. **SP305-2.**
- Scattering matrix description of electroacoustic transducers; Electroacoustic transducer measurement techniques; Near-field measurement techniques; *TN651*. **SP305-6.**
- Scattering matrix theory; Dynamical diffraction equation; Imperfect crystals; 15779. **SP305-8.**
- Scattering parameters; S parameters; Transistors; Electronics; High-frequency probes; Interlaboratory comparison; *SP400-5*. **SP305-7.**
- Scattering parameters; Spectral analysis; Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Jitter; Microwave measurement; Mismatch; Network analyzer; Noise; Pulse generator; Pulse measurement; Sampling oscilloscope; *TN672*. **SP305-7.**
- Scattering parameters; Two-port; Measurement; Microwave; Network; Nonreciprocal; 10815. **SP305-1.**
- Scattering phase-shifts; *t*-matrices; Delta-function potential; Excluded terms; Green's functions; Multiple-scattering series; Rigid-band approximation; *SP323*, pp. 515-518. **SP305-4.**
- Scattering sites; Dielectric mirror; Electron avalanche; Laser damage mechanisms; Laser induced damage; Laser monitoring; Plasma production; *SP372*, pp. 108-122. **SP305-4.**
- Scattering surfaces; Bidirectional radiometry; Canopies; Diffuse reflectance; Diffuse transmission; Reflectance standards; *J. Res. 80A No. 4*, 597-603 (1976). **SP305-8.**
- Scattering theory; Absorbance; Alumina; Ceramic; Emissivity; Emittance; Optical; Reflectance; Roughness; 10016. **SP305-1.**
- Scattering theory; Chemical reactions; Collision theory; Cross sections; Dissociation; Hot atoms; Isotope effects; Kinetics; Molecular beams; Quantum mechanics; Rate coefficients; Recombinations; 16591. **SP305-8.**
- Scattering theory; Close coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Momentum transfer; Nitrogen molecules; Rotational excitation; 16618. **SP305-8.**
- Scattering theory; Close-coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Exchange (of electrons); Hydrogen molecules; Inelastic scattering; Momentum transfer; Polarization charge clouds; Rotational excitation; 16532. **SP305-8.**
- Scattering theory; Correlation function; Density expansion; Kinetic equations; Langevin equation; Rate equations; 13. **SP305-5.**
- Scattering theory; Semiclassical approximation; Exchange; Electron scattering; Hydrogen atoms; Indistinguishable particles; Phase shifts; Quantum mechanics; 16. **SP305-8.**
- Scattering theory; Spectral line widths; Molecular collisions; 13863. **SP305-6.**
- Scattering theory; Spectral line widths; Molecular collisions; 13866. **SP305-6.**
- Scattering theory; Sudden approximation; Differential cross sections; Elastic scattering; Electron scattering; Hydrogen molecules; Momentum transfer; Rotational excitation; 15. **SP305-8.**
- Scattering theory; Sudden approximation; Close coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Momentum transfer; Nitrogen molecules; Rotational excitation; 15951. **SP305-8.**
- Scattering theory; Surface roughness; Transmittance; Bibliography; Emittance; Heat transfer; Measurement techniques; Periodic surfaces; Polarization; Random surface reflectance; Reflectance of coherent radiation; Scattering; *Res. 80A No. 2*, 207-220 (1976). **SP305-8.**
- Scattering theory; Trajectories; Uniform approximation; Chemical reactions; Classical scattering matrix theory; Collision theory; Hydrogen atoms; Hydrogen molecules; 160. **SP305-8.**
- Scattering theory; Trajectories; Classical scattering matrix theory; Collision theory; 16593. **SP305-8.**
- Scattering theory; Trajectories; Vibrational energy; Chemical reactions; Classical probability matrix theory; Classical scattering matrix theory; Collision theory; Energy transfer in collisions; Hydrogen molecules; Information theory; 160. **SP305-8.**
- Scattering theory; Trajectories; Transition-state theory; Chemical reactions; Chlorine molecules; Classical scattering matrix theory; Collision theory; Cross sections; Hydrogen atoms; Rate coefficients; 16627. **SP305-8.**
- Scattering theory; Trajectory calculations; Transport processes; Chemical kinetics; Cross sections; Rate theory; 10. **SP305-1.**
- Scattering theory; Unimolecular kinetics; Absolute rate theory; Association; Configuration interaction; Optical potential; Predissociation; Quantum mechanics; Resonance scattering; 11401. **SP305-2.**
- Scattering theory; Unimolecular kinetics; Absolute rate theory; Association; Configuration interaction; Quantum mechanics; Recombination decomposition; Resonance scattering; 11512. **SP305-2.**
- Scattering theory in one-dimension; Statistical mechanics; Thermal conduction; Thermal transport; Transport coefficients; Wave transmission in random media; Harmonic crystal; Transport; Isotopic disorder; Kapitza resistance; 12. **SP305-4.**
- Scattering-matrix theory of antennas; Antenna-antenna interactions; Antenna measurements; Antenna theory; *J. Res. 80A No. 1*, 5-51 (1976). **SP305-8.**
- ScB; Transition metal diborides; Electric quadrupole coupling constant; Knight shift; NMR; 12487. **SP305-4.**
- ScCl<sub>3</sub>; TiCl<sub>3</sub>; TiCl<sub>4</sub>; Dichlorides of Ca, Sc, Ti, V, Cr, Mn, Ni; Geometry; Infrared spectra of species; Matrix isolation; 12281. **SP305-3.**
- SCF; Vibrational transition intensities;  $\pi$ TI; CO; Dipole moment; Excited state; 15551. **SP305-7.**
- SCF calculations; Vacuum UV spectrum; Formaldehyde; Integrated oscillator strength; Photoionization coefficient; Berg spectrum; 12505. **SP305-4.**



- Module size (40 and 80); Acrylonitrile-butadiene (ABS), outside diameter; Dimensions; Pipe; *PS18-69, SP305-2*.
- Module size (40 and 80); Dimensions; Materials; Outside diameter; Pipe; Polyethylene (PE); *PS12-69, SP305-2*.
- Module 40; Dimensions; Inside diameter; Materials; Pipe; Polyethylene plastic; *PS10-69, SP305-2*.
- Module 40, 80, and 120 sizes; Dimensions; Hydrostatic design stress; Materials; Pipe; Poly(vinyl chloride) (PVC); Pressure; Pressure rating (PR); *PS21-70, SP305-2*.
- Modules of reinforcement; Audition; Aversion for sound; Escape and avoidance; Loudness; Noisiness; Psychophysics; *1414, SP305-6*.
- Scheduling; Assignment problems; Job scheduling; *14315, SP305-6*.
- Scheduling; Computer networking; Load leveling; Resource sharing; *16570, SP305-8*.
- Scheduling; Scheduling algorithms; Single-machine scheduling; Job scheduling; Minimizing maximum lateness; Minimizing total delay; Multimachine scheduling; *14313, SP305-6*.
- Scheduling; SIMSCRIPT; Simulation; Sorting; Freight operations; GPSS; Railroads; *9427, SP305-5*.
- Scheduling; Simulation; Systems; Administration; Health; Hospital; Managerial applications; Model; Policies; Queuing model; *12803, SP305-4*.
- Scheduling; Switching theory; Traffic flow; Transportation theory; Allocation; Queuing theory; *J.72B No. 3, 215-227 (1968), SP305-1*.
- Scheduling; Time-sharing; Computer systems; Optimization; *J.6B Nos. 3 and 4, 107-117 (1972), SP305-4*.
- Scheduling algorithms; Single-machine scheduling; Job scheduling; Minimizing maximum lateness; Minimizing total delay; Multimachine scheduling; Scheduling; *14313, SP305-6*.
- Scheduling measurements; Statistical design of experiments; Systematic error; Youden's burette experiment; Accuracy; Analysis of variance; Measurement process; Precision; Regression line; *12527, SP305-4*.
- Scintillator structure; Single crystal; X-ray back-reflection; Calcium molybdate; Crystal orientation; Crystallographic groups; Interplanar angles; Physical properties; *J.70A5-410, 379-384 (1966), SP305*.
- Schematic diagrams; Specifications; Specification writer; Cascade heater; Insulated underground piping; Insulation; Limitation of liability, "or equal" specifications; Performance specifications; *BSS66, pp. 78-87, SP305-7*.
- Schematic mechanism; Simple prototypes; *Ab initio* calculations; HF approximation; *13287, SP305-5*.
- Scattering method; Specific heat; Speed of sound; X-ray scattering; Critical region; Dielectric constant; Equation of state; Homogeneity; Light scattering; Power laws; Refractive index; Scaling; *14932, SP305-7*.
- Scaloid parameterization; Critical point; Equation of state; Scaling laws; *11273, SP305-2*.
- Seal paste; Paste, water-based, semi-liquid; *PS64-75, SP305-1*.
- Seal systems; Smoke detectors; Teaching metric; Cryogenic fluid; Door locks; Energy; EPIC supplement; High winds; Home security; Nondestructive evaluation; Research associate program; *DIM/NBS 60, No. 4, 1-24 (1976), SP305-8*.
- Seals; Smoke detectors; Atriums; Fire detection; Flame detectors; Heat detectors; Hospitals; Hotels; Maintenance; Nursing homes; Reliability; *16179, SP305-8*.
- Seals, paints and inks; Art education; Inks for art education; Paints and inks; *PS65-75, SP305-8*.
- Seonover, Irl C.; Souder, Wilmer; Specifications, dental; Amalgam, dental; American Dental Association; Casting, dental; Dental research; Dental Research Section, NBS; Guest workers; Paffenbarger, George C.; *SP354, pp. 7-11, SP305-4*.
- Schottky anomaly; Brillouin function; Density of states; Einstein function; Energy levels; Harmonic oscillator; Heat capacity; Molecular field; Molecular rotation; *13308, SP305-5*.
- Schottky anomaly; Thulium arsenate;  $\text{TmAsO}_4$ ; Heat capacity; Jahn-Teller effect; Molecular field approximation; *12990, SP305-4*.
- Schottky barrier diode; Single crystal GaN;  $14\text{N}^+$  implantation; *p*-type GaN; *14938, SP305-7*.
- Schottky capacitance-voltage; Spreading resistance; Automation; Beveling; Comparison; Four-point probe; Incremental MOS capacitance-voltage; Incremental sheet resistance; Infrared spectrometer; Ion microprobe; Junction capacitance-voltage; Lap and stain; *SP400-10, pp. 155-168, SP305-6*.
- Schottky pairs; Computer simulation; Kansaki method; Lattice statics; Point defects; *SP317, pp. 219-245, SP305-3*.
- Schottky pairs; Vacancies; Born model calculation; Calcium fluoride; Energies of formation; Frenkel pairs; Interstitials; Ionic crystals; Point defects; *10551, SP305-1*.
- Schottky-barrier; Silicon; Transport properties; Tunneling; Antimony-doped silicon; Arsenic-doped silicon (As doped Si); Band absorption; Band tailing; Depletion layer barrier tunneling; Electronic density of states; Esaki diode; *SP323, pp. 693-712, SP305-4*.
- Schottky-barrier diodes; Semiconductors; Solid-state devices; X-band measurements; Diodes; Gamma rays; Hardness assurance; Microwave mixer diodes; Mixers; Neutrons; Radiation hardness; Receivers; *SP400-7, SP305-8*.
- Schreibersite; Sulfate-reducing bacteria; Vivianite; Anaerobic corrosion; Cathodic depolarization theory; Charles Thom Award; *Desulfovibrio desulfuricans*; Hollow whiskers; Mechanism; Microbial corrosion; Mild steel; Oxidizing agent; *15233, SP305-7*.
- Schrödinger equation; Solution; Applications; Generalizations; Helium; Hyperspherical coordinates; Power series; *10199, SP305-1*.
- Schrödinger equation; Transition probability; Velocity average; Atomic beam; Frequency shift; Rabi spectrometer; *10430, SP305-1*.
- Schumann-Runge bands; Spin-orbit mixing; Molecular oxygen; Predissociation; *16596, SP305-8*.
- Schur matrix; Compounds; Induced matrices; Kronecker powers; Roots of unity; *15955, SP305-8*.
- Schur's lemma; Simultaneous triangularization and diagonalization; Commuting matrices; Group representations; Normal matrices; *J.71B2-3-201, 69-71 (1967), SP305*.
- Schur's lemma; Strain energy; Continuum mechanics; Elasticity; Integration; Matrix calculus; Matrix identity; Matrix theory; Reducibility; *J.77B Nos. 3 and 4, 73-79 (1973), SP305-5*.
- Schwinger mass formula;  $\text{SU}(6)_A$ ; 405 representation; Higher symmetry scheme;  $\lambda$  quark content; Nonet of  $2^{++}$  mesons; *9332, SP305*.
- Science; Air conditioners; Attic fans; Basic research; Chemical thermodynamics; Door security; Elliot Richardson; Energy conservation; Engineering; Fashion; Flammability; Laser measurement; *DIM/NBS 60, No. 6, 1-24 (1976), SP305-8*.
- Science; Standards; Technology; Annual report; Computer; Energy; Environment; Measurement; Product safety; Research; *SP437, SP305-7*.
- Science; Technology; Artifacts; Balance; Computer; Impermanence; Intelligence; Power; *15199, SP305-7*.
- Science; Technology transfer; Administration; Education; Information; Management; Public; *14716, SP305-6*.
- Science and technology; Sea of data; Standard reference data system; Computer age; Data system; Materials research; Measurement challenge; *DIM/NBS 60/Suppl., Anniversary Issue, 1-32 (1976), SP305-8*.
- Science and technology; Standards; Annual report; Computer; Energy; Environment; Health; Product safety; Research; *SP418, SP305-7*.

Science comprehension; Space age; Metrology; Modern technology; 9203. SP305.

Science information; Scientific literature; Reviews; 11530. SP305-2.

Science teaching; Measurement standards; Physical constants; 12381. SP305-4.

Science writers; Science writing; Science writing goals; Image of science; Lead paragraphs; Popular science writing; 10855. SP305-1.

Science writing; Science writing goals; Image of science; Lead paragraphs; Popular science writing; Science writers; 10855. SP305-1.

Science writing goals; Image of science; Lead paragraphs; Popular science writing; Science writers; Science writing; 10855. SP305-1.

Scientific and technical information; Semi-public good; Subsidization; Total cost recovery; User charges; Automated information retrieval; Cost benefit; Public good; TN864. SP305-7.

Scientific and technical librarians; Special Libraries Association; Survey; Users; Properties data; National Standard Reference Data System; 12626. SP305-4.

Scientific and technical resources; converting; Social opportunity; Economic challenge; NBS-GCR-73-3. SP305-8.

Scientific communication; Computer technology; Documentation, federal systems; Government research and development information; Information systems; 10888. SP305-2.

Scientific computer technology; Graphic character sets; Information analysis centers; Information interchange codes; Recording typewriters; TN820. SP305-6.

Scientific data; Silicon devices; Time; Energy conservation; Fires; Gasoline consumption; Glass SRM; Hazardous chemicals; Lead second; Playground equipment safety; DIM/NBS 59, No. 2, 25-48 (1975). SP305-7.

Scientific ills; Society and science; Technology and civilization; Preventive technology; 16300. SP305-8.

Scientific information; Technical literature; Abstract journal; Evaluation; Dissemination; Information analysis; Redesign; 11101. SP305-2.

Scientific literature; Manuscripts; Publications; 10625. SP305-1.

Scientific literature; Reviews; Science information; 11530. SP305-2.

Scientific literature; Word; Information; "Information explosion"; Information producer; Information user; Knowledge; 11713. SP305-2.

Scientific research abstracts; Binational research cooperation; International scientific cooperation; Israel science and technology; Physical science research administration; PL-480 programs; Research planning; TN721. SP305-4.

Scientific research abstracts; Special Foreign Currency Program; Yugoslavia science and technology; Binational research cooperation; International scientific cooperation; Physical science research administration; Research planning; TN753. SP305-5.

Scientific research abstracts; Special Foreign Currency; Binational research cooperation; International scientific cooperation; India science and technology; Physical science research administration; Research planning; TN798. SP305-5.

Scientific text; Users manual; Character codes for scientific text; Computerized text processing; NBS computer system; 13598. SP305-5.

Scientist-inventor; Technical innovations; Antitechnical crisis; Industrial laboratory; Industrial research; SP388, 159-164. SP305-6.

Scientists and engineers; Standing committee; Technical personnel; Environment; Personnel; Professional environment; Professional personnel; 9271. SP305.

Scientists' use of literature; Weeding a scientific library; Weeding criteria; 12178. SP305-3.

Scintillation; Spread-F; Topside; Absorption; High latitude ionosphere; Ionospheric scattering; Irregularity; Satellite; 16641. SP305-8.

Scintillation counting; Sodium-iodide crystals; Anti-coincidence shielding; Low-level radioactivity measurements; 13. SP305-5.

Scintillation detector; Background; Gamma-ray astronomy; Induced radioactivity; Monte Carlo calculation; Responder; 16631. SP305-8.

Scintillator; After-pulse; Detector; Gamma-flash; Photomultiplier; Pulse suppression; SP425, pp. 106-107. SP305-7.

Scintillators; Spacecraft, gamma-rays; Spallation; Activation; Apollo; Background; Computation, decay-schemes; Cross sections; SP425, pp. 480-483. SP305-7.

Scintillators; Time-of-flight; Detector; Flux; Monte Carlo; Neutrons; SP425, pp. 73-74. SP305-7.

Scission point; Statistical theory; Actinide nuclide; Fission; Neutron-induced fission; Fission; Fission fragment; Fission product; Kinetic energy; Mass yield; Prompt neutron; SP425, pp. 342-345. SP305-7.

SCOPE operating system; Segmentation; ANSI FORTRAN; General-purpose computer program; Implementation of COMITAB II; Links; OMNITAB II; Overlay procedures; TN7305-4.

Scott proposal; Antitrust; Hart proposal; Inventors; Patents; SP388, pp. 93-98. SP305-6.

Scramblers; Speech quality; Speech scramblers; Survey; Timing; Voice privacy; Intelligibility; LESL; NILEC; Performance standard; Privacy; 14714. SP305-6.

Scratch detection; Laser damage; Light scattering; Optical face quality; SP414, pp. 149-156. SP305-6.

Scratch resistance; Smoke generation; Toxic combustion products; Toxicity; Washability; Water vapor permeability; Abrasion; Adhesion; Colorfastness; Covering; Material; Flash point; Flame spread; Impact resistance; Lead poisoning; Materials; TN808. SP305-5.

Scratch resistance; Stain resistance; Surface-impact resistance; Test methods; Abrasion resistance; Chemical resistance; Cigarette-burn resistance; Cleanability and soilability; Concentrated static-load capacity; Performance characteristics; Performance level; Sanitary plumbing fixtures; BS. SP305-2.

Scratch resistance; Testing; Water-spray repelling; Component; Dirt repelling; Evaluation; Feed-back; Open system; Performance requirement; SP361, Vol. 1, pp. 529-534. SP305-4.

Scratching of glass; Single diamond cutting of alumina; Abrasion; Chatter vibrations; Forces in grinding; Fracture of alumina grains; Grinding noise; Grinding of alumina; SP348, pp. 73-87. SP305-4.

Screen, die attachment; Transistor die attachment; Die attachment evaluation; Diode die attachment; 14035. SP305-2.

Screening energy; Molecular hydrogen; Photoelectron spectroscopy; Polarization energy; Relaxation energy; 15. SP305-8.

Screening for hot spots, transistors; Thermal hysterisis; transistors; Transistors, hot spot detection; Current gain; Hot spot detection; Hot spots, current gain as indication; Power transistors, screening; 13219. SP305-5.

Screens; Structures; Topological codes; Chemistry; Computer; File organization; HAYSTAO; Hayward; Information retrieval; Linear notation; Markush; Mixtures; Reaction; Representations; 10363. SP305-1.

Screw disclinations; Crystal surface imperfections; Disclinations; SP317, pp. 593-606. SP305-3.

Screw dislocation; Computer simulation; Green's tensors; teratomic potential; Lattice studies; Peierl's energy; SP317, pp. 291-298. SP305-3.

w dislocation; Single crystals; Surface source; "Debris  
er"; Edge dislocation; Near-surface source; 11546. SP305-  
w threads; Smoke and gas fatalities; Water; Water; Com-  
ter valve; Cost-sharing; Cryogenic data; Earthquake; Em-  
r; Grain alcohol; Measurement science; Pollution; DIM/NBS  
4, No. 12, 265-288 (1974). SP305-6.  
ws; Staples; Bolts; Building assemblies; Building com-  
ments; Building constructions; Framing wood; Improved  
ils; Mechanical fasteners; Mechanical fastenings; Nails;  
361, Vol. 1, pp. 633-642. SP305-4.  
lerus Club; Statistical test; William Buckley; Abraham De  
oivre; Annuities upon Lives; "Argument for Divine  
vidence"; *Arithmetica Memorativa*; Bernoulli's theorem;  
erline of Chances; Generating functions; 9695. SP305-1.  
pt  $\mathcal{L}(f)$ ; Script  $\mathcal{L}(f)$ ; Sidebands; Signal stability;  
pectral density; Amplitude fluctuations; Cross-spectral den-  
y; Frequency domain; Frequency noise; Modulation noise;  
oise specification and measurement; Oscillator noise;  
028. SP305-6.  
pt  $\mathcal{L}(f)$ ; Script  $\mathcal{L}(f)$ ; Sidebands; Signal stability; Spectral densi-  
y; Amplitude fluctuations; Cross-spectral density; Frequency  
main; Frequency noise; Modulation noise; Noise specifica-  
ion and measurement; Oscillator noise; Phase noise; 14028.  
305-6.  
pt  $\mathcal{L}(f)$ ; Sidebands; Signal stability; Spectral density; Am-  
plitude fluctuations; Cross-spectral density; Frequency  
main; Frequency noise; Modulation noise; Noise specifica-  
ion and measurement; Oscillator noise; Phase noise; Radio  
equency power spectral density; 14028. SP305-6.  
D; Structure; Subsystem; URBS; ABS; Building systems;  
ollege buildings; Dormitories; HVC; Laboratories;  
ghting/ceiling; Performance specifications; Procurement  
ocess; SP361, Vol. 1, pp. 303-315. SP305-4.  
S.D., R.A.S.; Strategy; Systems approach; Technology and  
ability; User needs; Bid evaluation; Building systems;  
riteria and tests; Educational facilities; Life cost; Per-  
formance specifications; Prototypes; SP361, Vol. 1 pp. 317-  
30. SP305-4.  
D (School Construction System Development); SEF (Study  
Educational Facilities); SSP (Schoolhouse Systems Pro-  
am); URBS (University Residential Building System); User  
quirements; SP361, Vol. 1, pp. 297-301. SP305-4.  
ffing; Wear; Contact lubrication; Elastohydrodynamic con-  
ts; Fatigue; Lubricant film thickness; SP423, pp. 41-54  
Apr. 1976). SP305-8.  
920; Digital computer; Experiment; Modular; Nuclear  
ata; On-line; Programs; 10138. SP305-1.  
of data; Standard reference data system; Computer age;  
ata system; Materials research; Measurement challenge;  
cience and technology; DIM/NBS 60/Suppl., Anniversary  
ue, 1-32 (1976). SP305-8.  
water; Solubility; Carbonates; Equilibria; Hydroxide car-  
onates; Hydroxides; Oxides; 10782. SP305-1.  
water; Solubility; Dimethylmercury; Partition coefficient;  
5944. SP305-8.  
water; Stripping cell; Aromatic hydrocarbons; Gas chro-  
matography; Hydrocarbon analysis; Partition coefficient;  
4955. SP305-7.  
water sampling; Trace organic analysis; Water pollution;  
aseline studies; Fresh water sampling; Sampling device;  
5099. SP305-7.  
water-return cable; Electromagnetic measurements;  
ceanography; 14711. SP305-6.  
coast atmosphere; Standard; Stress-corrosion; 3.5 percent  
aAl; 7XXX aluminum alloys; Aluminum Association;  
STM; Industrial atmosphere; Round robin tests; 16656.  
305-8.  
Electrical feedthrough; Fluorine compatibility; Fluorine  
al; 12624. SP305-4.  
Seal; Vacuum; Flange design; O-ring; 12533. SP305-4.  
Seal leakage; Valve seat leakage; Leak detection; Leak flow  
rates; Leak rates; Leakage through valves; Predicting leak  
rates; TN355. SP305.  
Sealant performance; Standardized testing; Test methods; Ac-  
celerated laboratory tests; Double-glazed window units; Fac-  
tory-sealed insulating glass units; Field performance tests;  
correlation with laboratory tests; B5520. SP305-2.  
Sealants; Adhesion; Bonding; Composites; Coupling agents;  
Monomers; Polymers; Primers; 15374. SP305-7.  
Sealants; Tooth loss; Caries; Dental materials; Plastics; Preven-  
tion; 13261. SP305-5.  
Sealants; Wear resistance; Adhesive materials; Composites;  
Dental materials; Polymer grafting; Resins; Restorative  
materials; NBSIR 75-766. SP305-7.  
Sealed glazing units; Wind loading; Window; Air-tightness; Per-  
formance characteristics; Performance parameters; Rain-  
tightness; SP361, Vol. 1, pp. 375-384. SP305-4.  
Sealed tube dissolution; Antimony; Brilliant green; Dye impuri-  
ty; Extraction-spectrophotometric; Ferrous and non-ferrous  
alloys; Mechanism; 9610. SP305-1.  
Seals; Semiconductor devices; Weight test; Bubble test; Gas  
analysis; Helium leak test; Hermeticity; Integrated circuits;  
Measurement methods; Microelectronics; Radioisotope test;  
SP400-9. SP305-6.  
Search; Comet; HCN; HC<sub>3</sub>N; Kohoutek; OH; Radio; 15262.  
SP305-7.  
Search; Systems; Thinking; Information retrieval; Information  
storage; Mechanized; Methodology; Optical-coincidence;  
Patents; References; 10527. SP305-1.  
Search and rescue; Simulation; Team development; Coast  
Guard; Development; Interdisciplinary team; Management  
science; Model building; Organization; 12243. SP305-3.  
Searching program; Alphanumeric data files; Data retrieval;  
Editing program; File editor; FORTRAN program; General-  
purpose modular programming; Reformatting program; Re-  
port generator; TN700. SP305-4.  
Seasonal efficiency; Boiler oversizing; Efficiency vs. heating  
load; Modular boilers; Modular concept; B5579. SP305-7.  
Seasonal efficiency; Boiler oversizing; Efficiency vs. heating  
load; Modular boilers; Modular concept; 15712. SP305-8.  
Seasonal efficiency; Boilers; Computer simulation; DEPAB  
(Design and Performance Analysis of Boilers); Energy saving  
measures; Performance at part load; 16347. SP305-8.  
Seasonal frost; Snow drifting; Utilidors; Ventilation; Air  
leakage; Arctic; Central heat distribution systems; Construc-  
tion materials; Drainage; Insulation; Permafrost; B5566, pp.  
122-135. SP305-7.  
Season-cracking; Stress-corrosion; Alpha-brass; Copper; Ellip-  
sometry; Oxide-growth; 11539. SP305-2.  
Seat; Seat belts; Acceleration (mechanical); Biodynamics;  
Biomechanics; Human engineering; Kinematics; Occupant  
restraint systems; 11851. SP305-3.  
Seat belt; Sled tests; Webbing abrasion; Webbing degradation;  
Anthropomorphic dummies; Auto seat tests; Deceleration;  
Human kinematics; Human tests; Restraint geometry;  
Restraint systems; 11850. SP305-3.  
Seat belt webbing abrasion; Abrasion resistance testing; Auto-  
matic document distribution; Flexible tubing pump; Inverting  
amplifiers; Laser beam phase shift; Laser heterodyning;  
Liquid metering pump; Optical refractive index; Programmed  
document distribution; TN437. SP305.  
Seat belts; Acceleration; Anthropomorphic dummy; Auto-  
mobile crash simulator; Dynamic tests; Flywheel; 10454. SP305-  
1.  
Seat belts; Acceleration (mechanical); Biodynamics;  
Biomechanics; Human engineering; Kinematics; Occupant  
restraint systems; Seat; 11851. SP305-3.

Seawater; Aqueous solutions; Benzene solubility; Hydrocarbons; Partition coefficients; *J.78A No. 4, 453-460 (1974). SP305-6.*

Seawater; Baseline studies; Gas chromatography; Gas chromatography-mass spectrometry; Hydrocarbon; Liquid chromatography; Marine sediments; Pollution; *15706. SP305-7.*

Sea-water; Ultrasonics; Alloys; Corrosion; Cupro-nickel; High velocity; *12479. SP305-4.*

Seawater analysis; Adsorption; Copper; Cupric ion; Flow cell; Ion-selective electrode; *SP422, pp. 899-915 (Aug. 1976). SP305-8.*

Seawater analysis; Speciation; Stability of water samples; Zinc; Adriatic Sea; Cadmium; Copper; Electrochemical analysis; Heavy metals; Lead; *SP422, pp. 917-928 (Aug. 1976). SP305-8.*

Sea-water periclase; Ceramic; Electron microscopy, MgO; Microstructure; *11562. SP305-2.*

Sebacates; Triglycerides; Correlation; Esters; Heat capacity; Oligomers; *16275. SP305-8.*

Second; Standard; Unit; Degree Kelvin; Kilogram; Measurement system; Meter; Physical constant; *9797. SP305-1.*

Second; Standards for physical measurement; Temperature; Time; Ampere; Candela; Current; Degree Kelvin; International System of Units; Kilogram; Length; Luminous intensity; Mass; Meter; Metric system; *9796. SP305-1.*

Second and third heats;  $\Delta H$ - $\Delta S$  correlation; Heat of vaporization; Least squares fits; *12014. SP305-3.*

Second- and third-order elastic constants; Stress-free equilibrium; Third-neighbor model; Cauchy relations; Central force interaction; Cubic crystals; *12980. SP305-4.*

Second breakdown; Semiconductor devices; Thermal breakdown; Transistors; Bibliography; Device reliability; Diodes; Failure mechanisms; Failure modes; *TN431. SP305.*

Second breakdown; Semiconductor devices; Thermal breakdown; Transistor reliability; Transistors; Circuit reliability; Diodes; Failure mechanisms; Failure modes; Review; *10230. SP305-1.*

Second breakdown; Semiconductor devices; Thermal resistance; Transistor, power; Current crowding; Hot spots; Reliability; Safe operating area limits; *16328. SP305-8.*

Second breakdown; Semiconductors; Temperature sensitive phosphors; Transistors; Diodes; Failure mechanisms; Internal current distributions; *10050. SP305-1.*

Second breakdown; Semiconductors; Transistors; X-ray diffraction microscopy; Dislocations; Failure mechanisms; *10051. SP305-1.*

Second breakdown; Silicon; Carrier lifetime; Germanium; Lithium-drifted gamma-ray detectors; Resistivity; Resistivity inhomogeneities; *TN511. SP305-2.*

Second breakdown; Thermal instability; Transistors; Breakdown; Diodes; Reliability; *10048. SP305-1.*

Second breakdown; Thermal instability; Base widening; Current crowding; Hot spots; Power transistors; Safe operating area; *16451. SP305-8.*

Second breakdown; Transistors; Electronics; Failure mechanism; P-n junctions; Reliability; *10781. SP305-1.*

Second harmonic generation; Bulk damage; Lithium iodate; Phase matching; *SP387, pp. 84-90. SP305-5.*

Second harmonic generation; Selenium; Nonlinear optics; Optical activity; Optical properties; *12203. SP305-3.*

Second harmonic generation; Tunable UV source; ADP crystals; Dye laser; Fluorescein dye; *12539. SP305-4.*

Second law heat; Slope estimators; Third law heat; Vapor pressure; Bias of least squares estimators; Coefficient of variation; Correlated estimators; Enthalpy adjustments; Heat of vaporization; High temperature chemistry; *J.70A6-424, 533-539, (1966). SP305.*

Second layer migration; Tungsten; Carbon monoxide; Field emission; Hydrogen; Nitrogen; *10945. SP305-2.*

Second moment; Internal reorientation; Nuclear magnetic relaxation; Potassium rhenium hydride; Potential barrier; Proton; *11500. SP305-2.*

Second order diffracted radiation; Synchrotron radiation; X-ray gratings; Monochromators; Calibrated XUV detectors; Intensity; Radiometry; *15107. SP305-7.*

Second order Doppler shift; Accuracy evaluation; Atomic frequency standards; Cavity phase shift; *14765. SP305-7.*

Second order fluid; Hole pressure; Nonlinear rheology; Nonlinear stresses; Pressure error; *11966. SP305-3.*

Second order phase transition; Singularities; Padé approximation; Fluctuations; Opalescence; X-transitions; Critical phenomena; Critical point; *M273. SP305.*

Second order schedule; Aversion for sound; Avoidance; Differential reinforcement of high rate; Escape; High school students; Key press; Pure tones; *14815. SP305-7.*

Second order transition; Statistics; Variance; Abscissa; Confidence limits; Glass transition; Intercept; Intersection; Linear; Regression; *J. 76B Nos. 3 and 4, 179-192 (1976). SP305-4.*

Second Punic War; Solar energy; Archimedes; Buffon; Burning mirrors; Feasibility; History of optics; *13946. SP305-6.*

Second quantization; Field operators and statistics; Fock space; Occupation number; Permutation symmetry of wave functions; Quantum mechanics; *13372. SP305-5.*

Second sound; Shock wave; Stress wave; Temperature wave; Thermal diffusivity; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Interatomic potential; Molecular dynamics; *16138. SP305-8.*

Second sound; Shockwave; Thermal relaxation; Three dimensions; Crystalline solid; Iron; Molecular dynamics; *13372. SP305-5.*

Second sound; Stress pulse; Temperature wave; Thermal diffusivity; Thermal equilibrium; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Molecular dynamics; *16589. SP305-8.*

Second sound; Stress wave; Temperature wave; Thermal relaxation; Anharmonicity; Crystal; Heat pulse; Lattice; Molecular dynamics; *14253. SP305-6.*

Second spectra; Configurations  $3d^4p$ ;  $\beta$  and  $T$  corrections; Energy levels; Interaction parameters; Iron group; *J.73A No. 2, 125-127 (1969). SP305-1.*

Second spectra; Configurations  $3d^4p + 3d^4s4p$ ; Energy levels; Interaction between configurations; Iron group; *J.73A No. 2, 159-171 (1969). SP305-1.*

Second spectra; Copper; Energy levels; Interaction between configurations; Odd configurations; Parameters; *J.73A No. 2, 599-609 (1969). SP305-1.*

Second virial; He<sup>4</sup>; Low temperature; *J.72A No. 2, 155-160 (1968). SP305-1.*

Second virial; Viscosity; Gas; Intermolecular potential; Partial function; Scattering; *12162. SP305-3.*

Second virial coefficient; Adsorption; Correction for gas; Gas law correction; Imperfect gas; *12330. SP305-3.*

Second virial coefficient; Adsorption, gas on metal; Aqueous compressibility factor of; Burnett data reduction; Carbon dioxide, second virial coefficient of; Compressibility factor of; Gas; Gas, compressibility factor of; *J.75C Nos. 3 and 4, 172 (1971). SP305-3.*

Second virial coefficient; Burnett data reduction; Carbon dioxide; Nonlinear analysis; *14712. SP305-6.*

Second virial coefficient; Hard spheres; Quantum statistics; Quantum virial coefficient; *9282. SP305.*

Second virial coefficient; Quantum mechanics; Hydrogen; Equation of state; Statistical mechanics; Intermolecular potential; *TN412. SP305.*

Second virial coefficient; Solution properties; End-to-end distance; Light scattering; Linear polyethylene; *J.76A No. 2, 156-160 (1972). SP305-4.*



nd virial coefficient; Speed of sound in gases; Acoustic  
rmometry; Equation of state; Equilibrium gas properties;  
ilium; 12061. SP305-3.

nd virial coefficient; Spherical potential; Hypergeometric  
ies; London interaction; Pair potential function; Realistic  
ential; J.73A No. 4, 421-423 (1969). SP305-1.

nd virial coefficient; Statistical mechanics; Thermodynam-  
; Lennard-Jones gas; ( $m-6$ ) intermolecular potential; Quan-  
n corrections; J.75A No. 1, 57-89 (1971). SP305-3.

nd virial coefficient; Stockmayer; Dipole; Gas; Inter-  
molecular potential function; Polar; J.75A No. 4, 337-385  
971). SP305-3.

nd virial coefficient; Thermal conductivity coefficient;  
ermal diffusion factor; Viscosity coefficient; Critically  
lculated data; Dilute polyatomic gas; Kinetic theory of  
atomic molecules; J. Phys. Chem. Ref. Data 2, No. 4,  
5-756 (1973). SP305-6.

nd virial coefficient; Thermodynamics; Compressibility fac-  
s; Equation of state; High density; High temperature; Pair-  
e potentials; Redlich Kwong; 11887. SP305-3.

nd virial coefficient; Third virial coefficient; Water vapor;  
constituents; Boyle temperature; Deuterium; Hydrogen;  
ermolecular potential; Inversion temperature; Methane;  
ble gases; Potential parameters; 13108. SP305-5.

nd virial coefficient; Third virial coefficient; Isochores;  
therms; Joule-Thomson inversion curve; Liquid densities  
melting line; PVT data; J.74A No. 6, 747-760 (1970).  
305-2.

nd virial coefficient; Vapor pressure; Velocity of sound;  
ically evaluated data; Critical point; Density; Enthalpy;  
ropy; Equation of state; Heat capacity; Ideal gas proper-  
; Latent heat; Nitrogen; J. Phys. Chem. Ref. Data 2, No.  
757-922 (1973). SP305-6.

nd virial coefficient; Virial coefficients; Water vapor; In-  
action virial coefficients; Moist air; J.77A No. 1, 133-147  
973). SP305-5.

nd virial coefficient; Viscosity coefficients; Argon; Cross  
tions; Potential functions; 13138. SP305-5.

nd virial coefficient; Viscosity coefficient; Carbon dioxide;  
usius-Mosotti function; Intermolecular forces;  $m-6-8$   
ential quadrupolar gas; 15521. SP305-7.

nd virial coefficient; Wigner-Kirkwood expansion; Equa-  
n of state; Helium; Lennard-Jones gas exchange effects;  
antum mechanics; 11257. SP305-2.

nd virial coefficients; Configuration; Conformation; Krat-  
Porod model; Light scattering; Osmotic pressure; Poly( $n$ -  
yl isocyanates); Radii of gyration; 12355. SP305-3.

nd virial coefficients; Transport properties; Dispersion  
efficients;  $M-6-8$  potential; Parameter selection; TN628.  
305-5.

nd virial coefficients; Virial coefficients; Enhancement fac-  
; Equation of state; Interaction virial coefficients; Moist  
; Saturated air; J.79A No. 4, 551-560 (1975). SP305-7.

nd virial coefficients; Viscosity coefficient; Nonspherical  
actions; Polarizability;  $M-6-8$  potential; Quadrupole mo-  
nt; 13229. SP305-5.

ndary; System; Variable; Anchor; Controls; Corrosion;  
owth; Metering; Modern; Museum; Primary; Reliability;  
novation; B5566, pp. 102-115. SP305-7.

ndary battery; Transceiver; Battery performance standard;  
w enforcement communications, Law Enforcement Stan-  
dards Laboratory; Personal/portable transceivers; Primary  
tery; 16296. SP305-8.

ndary electron; Thin foils; Electron beam; Energy current;  
oller scattering; Mott scattering; 10494. SP305-1.

ndary electron collisions; Atmospheric gases; Ionization;  
ble gases; 12666. SP305-4.

ndary electrons; Atmospheric gases; Cross section mea-  
ement; Noble gases; 12920. SP305-4.

Secondary electrons; Electron scattering; Helium; Ionization;  
12548. SP305-4.

Secondary electrons; Target current; Derivative signal; Electron  
probe; Image; Scanning electron microscope; 11540. SP305-  
2.

Secondary electrons; X rays; Backscattered electrons; Electron  
probe microanalysis; Monte Carlo electron trajectory simula-  
tion; Scanning electron microscopy; SP460, pp. 15-44 (Dec.  
1976). SP305-8.

Secondary emission; SEM; Specimen criteria; Resolution;  
Resolution specimens; 12718. SP305-4.

Secondary emission; Silver (Ag); Copper; Dielectric constant;  
Direct interband transitions; Electronic density of states; In-  
terband transition; Korringa-Kohn-Rostoker (KKR); "muffin-  
in" potential; Palladium (Pd); SP323, pp. 181-189. SP305-  
4.

Secondary excitation; X-rays; Continuum source; 9668. SP305-  
1.

Secondary extinction; Theory; X-ray diffraction; Dynamical dif-  
fraction; Imperfections; Kinematical scattering; Piezoelectric  
vibration; 12073. SP305-3.

Secondary gamma rays; Adjoint; Concrete; Gamma-ray  
penetration; Moments; Neutron penetration; 15453. SP305-7.

Secondary hardening steel; Tempering; Through hardening  
steel; Ceramic; Cermets; Dimensional stability; Gage blocks;  
Length standards; Precipitation hardening steel; 11223.  
SP305-2.

Secondary ion mass spectrometry; Surface analysis; CARISMA  
program; Ion microprobe mass analysis; Local thermodynami-  
c equilibrium model; Quantitative analysis; 15862. SP305-8.

Secondary ion mass spectrometry; Surface analysis; Auger spec-  
trometry; Electron microprobe analysis; ESCA; Ion scatter-  
ing; SP422, pp. 541-573 (Aug. 1976). SP305-8.

Secondary ion mass spectrometry (SIMS); Surface analysis;  
Auger electron spectroscopy; Elemental depth profiling; Ion  
microprobe mass analysis; Ion optics; Local thermal equilibri-  
um (LTE); Mineral analysis; SP427. SP305-7.

Secondary ion mass spectroscopy; Semiconductor devices; Sil-  
icon; Surface analysis; X-ray photoelectron spectroscopy;  
Auger spectroscopy; Depth profiles; Electron beam induced  
imaging; ESCA; Insulator films; Interface characteristics; In-  
ternal photoemission; SP400-23. SP305-8.

Secondary ion mass spectroscopy; Silicon; Silicon dioxide; Sur-  
face analysis; X-ray photoelectron spectroscopy; Auger elec-  
tron spectroscopy; Depth impurity profiling; Ion implanta-  
tion; Ion sputtering; Microelectronic materials; Rutherford  
backscattering; 15739. SP305-8.

Secondary neutrons; Sodium iodide detector; Apollo 17;  
Background; Cosmic-ray proton; Induced radioactivity;  
15727. SP305-8.

Secondary particle spectra; Energy deposition; Microdosimetry;  
Neutron interaction with tissue; 13217. SP305-5.

Secondary particle spectra; Theoretical dosimetry; Energy  
deposition spectra; Microdosimetry; Neutron interactions  
with tissue; Neutrons; Radiation quality; 16182. SP305-8.

Secondary particle spectra; Tissue; Energy deposition; Neutron  
dosimetry; 12356. SP305-5.

Secondary processes; Specimen preparation; Cross-sections;  
Elastic scattering; Electron detectors; Electron energy  
analyzers; Electron guns; Electron scattering; Electron-solid  
interactions; Experimental techniques; Inelastic scattering;  
Multiple scattering; 11089. SP305-2.

Secondary pulp; Waste paper; Market pulp; Paper, waste; Pulp,  
secondary; Recycled paper; 15604. SP305-7.

Secondary reference materials; Standard Reference Materials;  
Definitive method; Matrix reference materials; Pure  
reference materials; Reference methods; Routine methods;  
16104. SP305-8.

- Secondary reference points; Temperature measurement; High temperature chemistry; International temperature scale; Melting points; Pyrometry; *10116. SP305-1.*
- Secondary standard; Combustion; Enthalpy; Formation; Heat; Isomerization; *J.78A No. 6, 683-689 (1974). SP305-6.*
- Secondary standard; Combustion; Enthalpy; Formation; Heat; Isomerization; *J.79A No. 3, 481-486 (1975). SP305-7.*
- Secondary standard; Signal level calibration; Standard reference materials; Unrecorded reference; Average signal peak level; Computer amplitude reference; Magnetic tape; Master standard; Saturation curves; *SP260-29. SP305-3.*
- Secondary standard; Signal level calibration; Standard reference materials; Unrecorded reference; Average peak signal level; Computer amplitude reference; Magnetic tape; Master standard; Saturation curves; *SP260-18. SP305-1.*
- Secondary standard; Standard reference material; Unrecorded references; Cassette tapes; Cassette transport; Computer amplitude reference; Magnetic tape cassette; *TN731. SP305-4.*
- Secondary standard; Sulfur compound; Thianthrene; Combustion; Enthalpy; Formation; Heat; *J.79A No. 4, 561-564 (1975). SP305-7.*
- Secondary standard; Thermochemical standard; Combustion; Enthalpy; Formation; Heat; *J.79A No. 3, 487-491 (1975). SP305-7.*
- Secondary standard; Vibration standard; Air bearing; Ceramic moving element; Electrodynamic shaker; Piezoelectric accelerometers; Reciprocity; *9297. SP305.*
- Secondary standardization; Calibration; Dosimetry; Ionization chamber; *SP456, pp. 65-69 (Nov. 1976). SP305-8.*
- Secondary standards; Calibration of errors; National standards; Optimum allocation; *9650. SP305-1.*
- Secondary standards in thorium spectrum; Standards of wavelength; Thorium; Thorium standards of class B; Wavelength standards; *11739. SP305-2.*
- Secondary surveillance radar; Air traffic control; Beacon code assignment; Digital simulation; Radar beacon system; *13106. SP305-5.*
- Secondary temperature standards; Temperature scales;  $\text{Y}_2\text{O}_3$ ; IPTS-68; Melting point; *14735. SP305-7.*
- Secondary ventilation; Testing plumbing systems; Vents for plumbing; Hydraulic criteria for plumbing; Hydraulic test loads; Plumbing-vent sizing; Reduced-size vents; Sanitary DWV systems; *BSS49. SP305-6.*
- Secondary-electron energy distribution; X-ray photoemission; Aluminum; Auger transitions; Copper; Electronic density of states; Nickel; *13058. SP305-5.*
- Secondary-electron energy distribution; X-ray photoemission; Aluminum; Auger transitions; Copper; Electronic density of states; Nickel; *13145. SP305-5.*
- Secondary-electron energy distribution; X-ray photoemission; Aluminum; Auger-transitions; Copper; Electronic density of states; Nickel; Photoelectron energy distribution; *13483. SP305-5.*
- Secondary-electron energy distribution; X-ray photoemission; Aluminum; Auger-peak; *12720. SP305-4.*
- Secondary-electron energy distribution; X-ray photoemission; Aluminum; Auger-peak; *14547. SP305-6.*
- Second-neighbor interactions; Shell model; Alkaline earth oxides; Born-Mayer potential; First-neighbor interactions; Ionivity; Lundquist three-body potential; *15398. SP305-7.*
- Second-order doppler; Velocity distribution; Cavity phase shift; Cesium beam tube; Frequency synthesis; Pulse method; Ramsey dual interaction region; *14829. SP305-7.*
- Second-order Doppler shift; Speed of light; Frequency multiplication; Fundamental constants; Laser stability; Metrology; *15980. SP305-8.*
- Second-order Doppler shift; Velocity distribution; Atomic beams; Cavity phase shift; Cesium beam; Frequency accuracy; Frequency standard; Pulsed excitation; *13985. SP305-6.*
- Second-order Doppler shift; Velocity distribution; Atomic beams; Cavity phase shift; Cesium beam; Frequency accuracy; Pulsed excitation; *13991. SP305-6.*
- Second-order interaction; Contingency tables; Estimation cell frequencies from marginals; Generalized independence; Hypothesis testing; Information theory; Interaction; *J.72F 3, 159-199 (1968). SP305-1.*
- Section cracking; Stress distribution; Unreinforced concrete; Buckling; compression members, concrete; Deflection; equilibrium; Load eccentricity; masonry; Stability; *13. SP305-3.*
- Sectors; Simulation; Social; Urban; City; Computer; Directional; Economic; Games; Government; Metropolitan planning; *13511. SP305-5.*
- Sectors; Simulation; Social; Urban; City; Computer; Directional; Economic; Games; Government; Metropolitan planning; *NBSIR 73-108. SP305-6.*
- Sectors; Simulation; Social; Urban; City; Computer; Directional; Economic; Games; Government; Metropolitan planning; *NBSIR 73-110. SP305-6.*
- Sectors; Simulation; Social; Urban; City; Computer; Directional; Economic; Games; Government; Metropolitan planning; *NBSIR 73-113. SP305-6.*
- Sectors; Simulation; Social; Urban; City; Computer; Directional; Economic; Games; Government; Metropolitan planning; *NBSIR 73-114. SP305-6.*
- Sectors; Simulation; Social urban; City; Computer; Directional; Economic; Games; Government; Metropolitan planning; *NBSIR 73-109. SP305-6.*
- Secular determinants; Spectra; Structure; Arsenic; Infrared resolution; Perturbation-allowed transitions; Resonance; *14953. SP305-7.*
- Secular equation; Trace equation; Trace formula; Closed matrix of rotation matrix; Orthogonal transformation; Rotation matrix; *J.73B No. 3, 215-223 (1969). SP305-1.*
- Securities and tax regulation; Small firm finances; Technological change; Technology subsidies; Venture capital; Capital market imperfections; Federal technology policy; *S. NBS-GCR-ETIP 76-08. SP305-8.*
- Securities and tax regulation; Small firm finances; Technological change; Technology subsidies; Venture capital; Capital market imperfections; Federal technology policy; *S. NBS-GCR-ETIP 76-12. SP305-8.*
- Security; Citizen rights; Computers; Confidentiality; Communications; Health records; Information policy; Management principles; Medical records; Privacy; Recordkeeping practices; *Monogr. 157. SP305-8.*
- Security; Communications; Computer security; Cryptography; Data security; Encryption; Network security; *15657. SP305-7.*
- Security; Computer systems, privacy and security; Confidentiality; Privacy; *TN809. SP305-6.*
- Security; Computer systems; Confidentiality; Privacy; Fairness and security; *SP404. SP305-6.*
- Security; Confidentiality; Controlled accessibility; Data integrity; Data security; *TN780. SP305-5.*
- Security; Data confidentiality; Data integrity; Encryption; Personal identification; Privacy; Record identification; Risk analysis; *16390. SP305-8.*
- Security; Shoplifting; Theft; Burglary; Consultants; Crime opportunity; Directory, (security); Investigations; Law enforcement; Resources; *16369. SP305-8.*
- Security; Small protection domains; Types; Capability; Capability-based addressing; Computer security; Extended-type objects; Operating system structures; Protection; Reliability; Reliability; *TN919. SP305-8.*
- Security; Standards; Technology assessment; User experience; Auditing; Cost/benefit analysis; Data base; Data base management; DBMS; Government regulation; Management objectives; Privacy; *SP451. SP305-8.*

nity; Standards; User groups; Computers; Data base management; Governments; Management information systems; Public services; 15923. SP305-8.  
 nity; Systems design; Computer; Data processing; Index; Information processing; Privacy; Requirements definition; *NBSIR 75-909. SP305-7.*  
 nity; Terminals; 16048. SP305-8.  
 nity; Terminology; Validation; Warranty; Accuracy; Audit; Certification; Code-independent; Documentation; Optimization; Precision; Run statistics; *SP406*, pp. 141-144. SP305-7.  
 nity; Terms; Vocabulary; Computer; Data processing; Definitions; Federal Information Processing Standards Publication; Information processing; Privacy; *FIPS PUB 39. 305-8.*  
 nity; Weapon detection; Handgun detection; Metal detection; Performance standard; 15306. SP305-7.  
 nity audit; Access control; Computer security; Controlled accessibility; EDP management control; Identification; Measurement; *TN827. SP305-6.*  
 nity audit; Security awareness; Supporting utilities; ADP security; Computer reliability; Contingency plans; Federal Information Processing Standard; Fire safety; Natural disasters; Physical security; Risk analysis; *FIPS PUB 31. SP305-6.*  
 nity awareness; Supporting utilities; ADP security; Computer reliability; Contingency plans; Federal Information Processing Standard; Fire safety; Natural disasters; Physical security; Risk analysis; Security audit; *FIPS PUB 31. SP305-6.*  
 nity costs; Computer model; Computer security; Confidentiality; Cost model; Data security costs; PL-93-579; Privacy; Privacy Act of 1974; Privacy compliance techniques; Privacy costs; Privacy model; *NBSIR 76-985. SP305-8.*  
 nity costs; Computer security; Data security; Privacy; Privacy costs; *TN876. SP305-7.*  
 nity costs; Computer security; Confidentiality; Cost model; Data security costs; PL 93-597; Privacy; Privacy Act of 1974; Privacy compliance techniques; Privacy costs; Privacy model; *W906. SP305-8.*  
 nity, data transmission; Security, file access; Security, identification (password); Security, input and output processing; Security software; Software monitors; Computer performance; Computer security; Hardware monitors; *SP406*, pp. 83-86. SP305-7.  
 nity equipment; Standards; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; Performance standards; Project plans; Protective equipment; *NBSIR 74-568. SP305-6.*  
 nity equipment; Standards; Warning lights and sirens; Anthropometry; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; Performance standards; Project plans; Protective equipment; *NBSIR 74-529. SP305-6.*  
 nity equipment; Surveillance equipment; Alarm systems; Cameras; Police; Police equipment; *NBSIR 73-213. SP305-6.*  
 nity, file access; Security, identification (password); Security, input and output processing; Security software; Software monitors; Computer performance; Computer security; Hardware monitors; Performance evaluation of secure computer systems; *SP406*, pp. 83-86. SP305-7.  
 nity flows; Software security; Taxonomy of integrity flaws; NIVAC 1100 Series OS; BBN-TENEX; IBM OS/360; Operating system security; *NBSIR 76-1041. SP305-8.*  
 nity, identification (password); Security, input and output processing; Security software; Software monitors; Computer performance; Computer security; Hardware monitors; Performance evaluation of secure computer systems; Security, data transmission; *SP406*, pp. 83-86. SP305-7.  
 nity, input and output processing; Security software; Software monitors; Computer performance; Computer security; Hardware monitors; Performance evaluation of secure computer systems; Security, data transmission; Security, file access; *SP406*, pp. 83-86. SP305-7.  
 Security, software; Software engineering; Software systems; 16099. SP305-8.  
 Security software; Software monitors; Computer performance; Computer security; Hardware monitors; Performance evaluation of secure computer systems; Security, data transmission; Security, file access; Security, identification (password); *SP406*, pp. 83-86. SP305-7.  
 Security systems; Sensory processes; Threat analysis; Behavioral impact; Cognitive processes; Nuclear weapon theft; Perceptual processes; Psychological deterrence; *NBSIR 76-1007. SP305-8.*  
 Security systems; WWV/WWVH; Accelerator facilities; Computers; Court records; Fire safety; Forensic science; Law enforcement; Methane; Metric; Police protection; Safer streets; *DIM/NBS 59, No. 3, 49-72 (1975). SP305-7.*  
 Security systems vehicles; Voluntary standards; Weapons; Building systems; Communications equipment; Concealed objects detectors; Emergency equipment; Law Enforcement Standards Laboratory; Procurement guidelines; Protective equipment; 15325. SP305-7.  
 Sediment; Standard; X ray; Alpha particle; Beta particle; Gamma-ray; Radioactivity; 15933. SP305-8.  
 Sediment; Trace elements; Water; Wet chemical analysis; Atomic absorption analysis; Californium-252; Mahoning River; Neutron activation analysis; Pollution; *SP422*, pp. 225-230 (Aug. 1976). SP305-8.  
 Sedimentation; Centrifuge; Equilibrium sedimentation; Lamm equation; Rotor deceleration; 9584. SP305-1.  
 Sedimentation; Critical point; Critical solution point; Densimeter, magnetic; Diffusion, pressure; Gradient, concentration; Gradient, density; Gravity, effects of; 3-methylpentane; Mixture; Liquid; Nitroethane; 14944. SP305-7.  
 Sedimentation; Sieve; Standard sieve; Abrasive grain; Accumulation curve; Coated abrasive products; Grain, abrasive; Micron; Overgrade; *P58-67. SP305.*  
 Sedimentation coefficient; Translation diffusion coefficient; Zimm theory; Bead-spring model; Block copolymers; Dilute polymer solutions; Limiting viscosity number; Mandelkern-Flory-Scheraga equation; Molecular weight determination; 16026. SP305-8.  
 Sedimentation equilibrium; Molecular weight average; Molecular weight distributions; Moments; Polydispersity; Polynomial representation; *J17A1-431, 13-17 (1967). SP305.*  
 Sedimentation equilibrium; Ultracentrifugation; Lamm equation; Molecular weight; Numerical solutions; Rotor slowing; 10508. SP305-1.  
 Sediments; Anaerobic bacteria; Atomic absorption; Chesapeake Bay; Dimethylmercury; Estuary; Facultative bacteria; Gas chromatography; Mercury; Metabolites; Methylmercury; 14526. SP305-6.  
 Sediments; Standard; Trace elements; Accuracy; Atomic Absorption Spectrometry; Caribbean; Precision; Puerto Rico; Replicates; *SP422*, pp. 1089-1102 (Aug. 1976). SP305-8.  
 Sediments; Total mercury; Water; Chesapeake Bay; Elemental sulfur; Flameless atomic absorption; Petroleum; Plankton; 15874. SP305-8.  
 Seebeck coefficient; Sodium tungstate; Structure; Resistivity; *SP364*, pp. 41-50. SP305-4.  
 Seebeck effect; Semiconductor; Transport; Magnetophonon effect; 14212. SP305-6.  
 Seebeck effect; Standard reference material; Thermal conductivity; Transport properties; Tungsten; Cryogenics; Electrical resistivity; Lorenz ratio; *NBSIR 73-351. SP305-6.*  
 Seebeck effect; Temperature measurement; Thermocouples; Thermoelectric properties; Cryogenics; Dipping; Evaluation; Heterogeneity; Liquid helium; Liquid nitrogen; Low temperature tests; 12623. SP305-4.

- Seebeck effect; Temperature measurement; Thermoelectric properties; Cryogenics; Dipping; Evaluation; Heterogeneity; Liquid helium; Liquid nitrogen; Low temperature; *12975*. SP305-4.
- Seebeck effect; Thermal conductivity; Transport properties; Cryogenics; Electrical resistivity; Iron; Lorenz ratio; *12601*. SP305-4.
- Seebeck effect; Thermal conductivity; Titanium alloy; Transport properties; Aluminum alloy; Cryogenics; Electrical resistivity; Lorenz ratio; Nickel alloys; *J75A No. 4*, 269-277 (1971). SP305-3.
- Seebeck effect; Thermal conductivity; Transport properties; Cryogenics; Electrical resistivity; Electrolytic iron; Lorenz ratio; *SP260-31*. SP305-3.
- Seebeck effect; Thermal conductivity; Transport properties; Cryogenics; Electrical resistivity; Equipment; Error analysis; Iron; Lorenz ratio; *J74A No. 5*, 673-690 (1970). SP305-2.
- Seebeck voltage; Silver-gold alloy; Standard Reference Material; Thermocouple; Cryogenics; *SP260-34*. SP305-4.
- SEF (Study of Educational Facilities); SSP (Schoolhouse Systems Program); URBS (University Residential Building System); User requirements; ABS (Academic Building Systems); *SP361, Vol. 1*, pp. 297-301. SP305-4.
- Segment;  $\theta$  solvent; Adsorption; Chain; Concentration; Interface; Isotherm; Polymer; Polystyrene; *9786*. SP305-1.
- Segmental bone replacement; Bioglass-ceramic; Ceramic implants; Flame spray coating; Hip prosthesis; *SP415*, pp. 19-36. SP305-7.
- Segmentation; ANSI FORTRAN; General-purpose computer program; Implementation of OMNITAB II; Links; OMNITAB II; Overlay procedures; SCOPE operating system; *TN734*. SP305-4.
- Segmentation; System parameters; Transportable computer programs; ANSI FORTRAN; Double precision; General-purpose computer program; Implementation of OMNITAB II; Labeled common; Machine independent; OMNITAB II; Overlay; *TN550*. SP305-2.
- Segregation; Casting gold; Composition; Dental gold alloys; Electron microprobe; Grain reduction; Grain size; *10924*. SP305-2.
- Segregation nodes; Vacancy condensation; Angular distribution of cavities; Cavitation; Copper; Creep; Grain boundaries; Grain boundary sliding; Nucleation of cavities; *13091*. SP305-5.
- Segs; Basic cut-sets; Cut-sets; Graph theory; Network flows; Mathematics; *J71B4-242, 183-186* (1967). SP305.
- $\sigma(E, \theta)$ ; <sup>76</sup>Ge;  $E_{\gamma}$ ;  $E_{\beta}$  2.0-4.1 MeV; Level schemes; ( $n, n'$ ) reaction; *SP425*, pp. 893-896. SP305-7.
- Seidel transform; Spectrochemical analysis; Arrak transform; Baker transform; Emulsion calibration; Kaiser transform; Photographic emulsions; Sampson transform; *11384*. SP305-2.
- Seismic; Standards; Structural engineering; Bridge; Building; Codes; Dams; Earthquake damage; Earthquakes; Foundation geology; Highways; Hospital; Housing; Mobile home; *B5540*. SP305-3.
- Seismic; Structural engineering; Building; Codes; Earthquake damage; Earthquakes; Hazards; Hospital; Natural disasters; *14759*. SP305-7.
- Seismic design; Seismic response; Spherical tanks; Structural design; Dynamic analysis; Earthquake; *SP444*, pp. V-50-V-62 (Apr. 1976). SP305-8.
- Seismic loading; Shear strength; Shear wall; Stiffness; Analysis; Compressive strength; Deflection; Design; Flexural strength; Masonry walls; Racking strength; *NBSIR 74-520*. SP305-6.
- Seismic loads; Structural engineering; Wind loads; Vibrations; Buildings; Climatology; *B5530*, pp. 129-131. SP305-3.
- Seismic pulses; Ultrasonic transducers; Acoustic emission; Calibration of transducers; Electrostatic transducers; Lamb's problem; *14960*. SP305-7.
- Seismic response; Compensation; Ground motion; Infras microphones; *J75C No. 1*, 41-45 (1971). SP305-3.
- Seismic response; Spherical tanks; Structural design; Dynamic analysis; Earthquake; Seismic design; *SP444*, pp. V-50-V-62 (Apr. 1976). SP305-8.
- Seismic response; Structural engineering; Analytical method; Dynamic analysis; Dynamic loading; Earthquake; Energy dissipation; Finite element; *SP444*, pp. IV-70-IV-89 (Apr. 1976). SP305-8.
- Seismic system; Seismometer; Accelerometer; Calibration; Electromechanical transducer; Galvanometer; Galvanometer amplifier; *NBSIR 76-1089*. SP305-8.
- Seismic waves; Seismometer; Soil-structure interaction; Earthquake; Field data; Ground response; *SP444*, pp. 13-III-23 (Apr. 1976). SP305-8.
- Seismograph; Earth strain; Earth tide; Geophysics; Laser strain meter; *11865*. SP305-3.
- Seismology; Geophysics; Gravity; Ionosphere; *9274*. SP305.
- Seismometer; Accelerometer; Calibration; Electromechanical transducer; Galvanometer; Galvanometer amplifier; Seismometer; *NBSIR 76-1089*. SP305-8.
- Seismometer; Soil-structure interaction; Earthquake; Field data; Ground response; Seismic waves; *SP444*, pp. III-13-III-23 (Apr. 1976). SP305-8.
- Selected thermodynamic values; Thermodynamic properties; CODATA compatible values; Enthalpies of formation; Entropy; Gibbs energy of formation; *NBSIR 75-968*. SP305.
- Selected values; CHNOPS compounds; Heat of combustion; Heat of formation; *J. Phys. Chem. Ref. Data 1*, No. 2, 277 (1972). SP305-6.
- Selected values; Soap; Solubilization; Standard values; Surface active agents; Surface chemistry; Surface tension; Surface Association colloid; Bibliography; CMC; Colloid; Colloid electrolyte; Critical concentration; *NSRDS-NBS36*. SP305.
- Selection; Building; Classification; Comparison; Elements; Materials; Performance requirements; *SP361, Vol. 1*, pp. 518. SP305-4.
- Selection; Shaping; Sizing; Capability; Ceramics; Grinding wheels; *SP348*, pp. 45-52. SP305-4.
- Selection; Substrates; Surface preparation; Varnish; Wet thinning; Application; Coatings; Coating systems; Corrosion inhibiting; Federal specifications; Fire-retardant; Lacquer; Latex; Multicolor; Organic coatings; Paint; Pigments; Polymers; *B557*. SP305-1.
- Selection; Users; Acquisition; CODASYL; Computer; Data management; Designers; Evaluation; *15668*. SP305-7.
- Selection and retrieval; Library automation; Optical character recognition; Pattern recognition; Programming languages; Speech and speaker recognition; Artificial intelligence; Automatic abstracting; Automatic indexing; Computational linguistics; *TN462*. SP305-1.
- Selection criteria; Software features; System evaluation; System features; User experiences; Data base applications; Data management systems; *TN887*. SP305-7.
- Selection of DTA parameters; Temperature standards; Theory of isoperibol and adiabatic shield calibration; Atherosclerotic plaque; DSC; Elastomers and vulcanizates; Explosives; High temperature DTA; Kinetics by TGA; *SP305-2*.
- Selection of hearing aids; Speech communication; Audiology; Communications; Hearing; Hearing aids; *CIS4*. SP305-3.
- Selection of hearing aids; Speech communication; Audiology; Communications; Hearing; Hearing aids; *Monograph*. SP305-2.
- Selection rule; Symmetry;  $A_2$ ; Boson; Decay; Octet; *11384*. SP305-2.
- Selection rules; Cobaltic acid; Crystal structure; Hydrogen bond; Infrared spectra; Isotope effect; Lattice vibrations; Neutron spectra; *10898*. SP305-2.



- tion rules; SrTiO<sub>3</sub>; Uniaxial stress; Absorption edge; Chromism; Rotary transmission method; 10942. **SP305-2.**
- tion rules; Stress-optical effects; Strontium titanate; Electro-optical effects; Energy bands; 9620. **SP305-1.**
- tion rules; Strontium titanate; Brillouin zone; Critical points; Infrared; Optical absorption; Phonons; 11575. **SP305-1.**
- tion rules; Symmetry species; Tetrahedral; Energy levels; perfluorinated interactions; Methane; 16376. **SP305-8.**
- tion rules; Tetrahedral point group; Group theory; Methane; Rovibronic symmetry species; 14138. **SP305-6.**
- tion rules; Vibration-rotation Hamiltonian; Angular momentum; Biomolecular complex; Collisions; Group theory; Molecule-fixed axes; 13080. **SP305-5.**
- tion rules; Group theory; Inelastic; Neutron; Rigid molecule; Scattering; 13151. **SP305-5.**
- itive copier; Information retrieval device; Microcopier; Microfilm duplicator; Reader-printer; *TN516*. **SP305-2.**
- itive dissemination systems; Auto-encoding; Automatic abstracting; Automatic indexing; KWIC indexing; Luhn; 10792. **SP305-1.**
- itive dissemination systems; Automatic classification; Automatic indexing; Indexer inconsistency; Mechanized indexing; 141. **SP305-2.**
- itive harmonic excitation; Two-stream; Velocity distribution; Vlasov equation; Electron trapping; Non-linear; Numerical; *J.73B No. 4, 293-300 (1969)*. **SP305-1.**
- itive inhibition; Selectivity; Self-inhibition; Thermal control; 1-butene; 2-butene; Concurrent reactions; Consecutive reactions; Controlled oxidation; Conventional additive experiments; Cool-flames; Intermediate products; Isobutane; *SP357, 111-117*. **SP305-4.**
- itivity; Self-inhibition; Thermal control; 1-butene; 2-butene; Concurrent reactions; Consecutive reactions; Controlled oxidation; Conventional additive experiments; Cool-flames; Intermediate products; Isobutane; *SP357, 111-117*. **SP305-5.**
- itivity; Semimicro; Sensitivity; Accuracy; Activation analysis; Element; Generator; Micro; Precision; Reactor; 1030. **SP305-4.**
- ides; Semiconductor-to-metal transitions; Structure transitions; Sulfides; Tellurides; Transition-metal chalcogenides; Trigonal-prismatic coordination; Dichalcogenides; Intercalation compounds; Layer structures; Modulated structures; 364, pp. 625-635. **SP305-4.**
- ium; Activation analysis; Arsenic; Cadmium; Environment; Mercury; Pollution; Radiochemical separations; 14519. **SP305-6.**
- ium; Nonlinear optics; Optical activity; Optical properties; Second harmonic generation; 12203. **SP305-3.**
- ium; Silicon; Stability; Temperature dependence; Fatigue; Light memory; Photocells; Photodiodes; Photometry; diometry; *TN594-5*. **SP305-5.**
- ium; Standard; Biological; Neutron activation analysis; 734. **SP305-4.**
- ium; Supercooled liquid; Thermodynamic properties; Trigonal selenium; Annealed and quenched glasses; Isomerism; Glass transformation; Heat capacity; 14179. **SP305-6.**
- ium; Toxic elements in paints; Analytical methods; Arsenic; Arsenic; Cadmium; Lead; Mercury; Review; 13768. **SP305-5.**
- ium; Trace elements; Urine; Arsenic; Biological fluids; Bromine; Copper; Fluorine; Lead; Nickel; Reference materials; *NBSIR 73-406*. **SP305-6.**
- ium analysis; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Sulfur analysis; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; Vacuum spectrometer; Computing; Digital readout; *TN422*. **SP305-1.**
- Selenium-75; Standardization; Coincidence counting; Gamma rays; Ground state decay; Radioactivity; 15846. **SP305-8.**
- Selenodesy; Astronomy; Cartography; Geophysics; Laser; Lunar distance; Moon; 14892. **SP305-7.**
- Selenodesy; Celestial mechanics; Crustal movements; Earth rotation; Geophysics; Laser; Moon; Polar motion; 13809. **SP305-6.**
- Selenology; Celestial mechanics; Geophysics; Laser; Lunar ephemeris; 12727. **SP305-4.**
- Selenology; Geophysics; Laser; Lunar motion; 11667. **SP305-2.**
- Self absorption; Soft x-ray emission; X-ray spectroscopy; Zinc (Zn); Cobalt; Copper; Electronic density of states; Iron; Nickel; Satellite emissions; *SP323, pp. 319-326*. **SP305-4.**
- Self absorption; Uranium-oxide; Alpha particles; Backscattering; Gadolinium-148; Polonium-210; 15807. **SP305-8.**
- Self balancing; Stabilizer; Bridge; Leveler; Microwave; Power; 12042. **SP305-3.**
- Self diffusion coefficient; Time correlation function; Transport coefficient; Cluster expansion method; Dense gases; Projection operator method; 10931. **SP305-2.**
- Self energy; Electron; Hydrogen; Lamb shift; 9997. **SP305-1.**
- Self focusing; Critical power; Laser damage; Nonlinear index; *SP387, pp. 36-41*. **SP305-5.**
- Self focusing; Laser damage; Nonlinear; *SP387, pp. 42-48*. **SP305-5.**
- Self focusing; Laser damage; Nonlinear index; Random index variation; *SP387, pp. 49-56*. **SP305-5.**
- Self focusing; Yttrium aluminum garnet; Ellipse rotation; Glass; Nonlinear index; Nonlinear susceptibility; *SP387, pp. 11-24*. **SP305-5.**
- Self heating; Building materials; Calorimetry; Combustibility; Flammability; Heat release rate; Potential heat; 16111. **SP305-8.**
- Self pressurization; Thermal stratification; Computer program; Cryogenic; Liquid hydrogen; Mathematical model; 14203. **SP305-6.**
- Self shielding factor; 24 keV; 160 keV; Fe; Multigroup capture cross section; *Na<sup>24</sup>; SP425, pp. 961-963*. **SP305-7.**
- Self-absorption; Uranium oxide; Alpha particles; Backscattering; Disintegration rate; Ranges; 15808. **SP305-8.**
- Self-absorption corrections; Standard reference materials; Vanadium in irons and steels; Activation analysis; Biological; Botanical samples; Carbon in sodium; Cockcroft-Walton generator; Digital computers; Flux monitors; High precision 14 MeV neutron activation; Homogeneity testing; Instrumentation; NBS LINAC; NBS reactor; Photoneutron reactions; *TN428*. **SP305-5.**
- Self-adjoint equations; Sturm-Liouville systems; Boundary value problems; Coupled equations; Differential equations; *J.75B, Nos. 3 and 4, 125-138 (1971)*. **SP305-3.**
- Self-assembly; Structural transformations; Surface adsorption; Biopolymers; Helix-coil transition; Phase transitions in biopolymers; 15721. **SP305-8.**
- Self-avoiding polymer chains; Shape of polymer chains; Spans; Unrestricted polymer chains; Monte Carlo analysis; Ordered spans; 15622. **SP305-7.**
- Self-avoiding walks; Span; Polymer chains; Ratio method; 14015. **SP305-6.**
- Self-balancing current comparator; Transformer; Wide-range; Calibration; Current comparator; Current transformer; Overload testing; 12256. **SP305-3.**
- Self-balancing potentiometers; Thermometry; Automatic potentiometer; Automation; Calorimetry; Dieselschott ring; Potentiometer; Programmable potentiometer; *J. Res. 80A No. 4, 669-675 (July-Aug. 1976)*. **SP305-8.**
- Self-balancing Wheatstone bridge; Automated dc substitution; Bolometer calibration; Radiofrequency power measurement; *SP335, pp. 35-37*. **SP305-3.**

- Self-calibrated detectors; Detectors; Gold-blacks; Optical radiation detectors; Optics; Polymers; Pyroelectric detectors; Pyroelectricity; 14520. **SP305-6.**
- Self-calibration; Directional coupler; Measurement standards; 15828. **SP305-8.**
- Self-calibration; Seven-port junction; Vector voltmeter; Amplitude; Computer controlled; Diode detectors; Microwave measurements; Phase angle; *NBSIR 76-844*. **SP305-8.**
- Self-calibration; Six-port; Vector voltmeter; Voltage; Attenuation; Microwave; Phase angle; Ratio; 15665. **SP305-7.**
- Self-calibration; Six-ports; Vector voltmeter; Voltage; Admittance; Automated precision measurements; Correlator; Current; Impedance; Microwave circuit parameters; Microwave measurements; Phase angle; Power; Ratio; Reflection coefficient; Reflectometer; *TN673*. **SP305-7.**
- Self-calibration; Standards, national; Systems concept; Measurement; National Bureau of Standards; National Measurement System; National standards; 11516. **SP305-2.**
- Self-calibration by users; Special NBS facilities; Astin-Branscomb transition; Astin legacy; Compatibility and reproducibility of measurements; Contributions to basic science; Design and performance standards; Fundamental constants; International standards; 14344. **SP305-6.**
- Self-consistent crystal field; Standard reference materials; Structure analysis; Calculations; Conversion electrons; Counting statistics; Cross sections; Cryostats; Electric field gradient tensor; Electronics; Gas analysis; Heterogeneity; Interferometric; *TN501*. **SP305-2.**
- Self-consistent field; Term values; Wavefunctions; Multiplet strength; *J.71A2-447*, 157-162 (1967). **SP305.**
- Self-consistent field; Valence electrons; Basis functions; Configuration mixing; Dipole moments; Electronic structure of molecules; Hartree-Fock; Integrals, evaluation of; Molecular structure; Orbitals; Potential energy curves; Pseudopotentials; 16611. **SP305-8.**
- Self-consistent orthogonalized plane wave model (SCOPW); Semiconductors, tetrahedrally bonded; Silicon; Zincblende; ZnSe; Aluminum phosphide (AlP); Electronic density of states; Exchange potential; Gallium arsenide (GaAs); Germanium; *SP323*, pp. 93-102. **SP305-4.**
- Self-consistent-field; Dipole moment function; Dissociation energy; Electronic structure; Hydroxyl radical; Potential curve; 14805. **SP305-7.**
- Self-diffusion; Continuous interface profile; Diffusion equation; Hypergeometric differential equation; Interfacial force; Liquid-vapor interface; Markov Stochastic model; 15726. **SP305-8.**
- Self-diffusion; Sintering; Surface diffusion; Thermo-migration; Copper; Diffusion; Electromigration; Liquid copper diffusion; Nuclear magnetic resonance and diffusion; Pressure effects on diffusion; *J. Phys. Chem. Ref. Data 2*, No. 3, 643-656 (1973). **SP305-6.**
- Self-diffusion; Tracer diffusion; Chemical interdiffusion; Grain-boundary diffusion; Intrinsic diffusion; Lattice diffusion; *J.72A No. 2*, 157-173 (1968). **SP305-1.**
- Self-diffusion; Tracer diffusion; Chemical interdiffusion; Grain-boundary diffusion; Intrinsic diffusion; Lattice diffusion; 13978. **SP305-6.**
- Self-diffusion; Tracer diffusion; Chemical interdiffusion; Grain-boundary diffusion; Intrinsic diffusion; Lattice diffusion; 13979. **SP305-6.**
- Self-diffusion coefficient; Argon; Critical review; Krypton; Measurement technique; Methane; 14831. **SP305-7.**
- Self-diffusion coefficient; 11-6-8 potential function; Correlation function; Experimental data; Hydrodynamic behavior; Methane; Molecular dynamics; Potential function; 15173. **SP305-7.**
- Self-diffusivity; Thermal conductivity; Corresponding-states principle correlation; Cryogenic liquids and liquid mixtures; Mutual-diffusivity; 10416. **SP305-1.**
- Self-energy; Atomic beam; Electromagnetic; Electron; Hydrogen; Mass; Measurement; 9996. **SP305-1.**
- Self-excited pulse repetition; Temperature compensation; Ultrasonics; Velocity of sound; Delay line; Frequency stability; Gauge; High pressure; 9331. **SP305.**
- Self-focusing; Absorption coefficient; Damage threshold; Electrostriction; Inclusion damage; Intrinsic damage; Kerr effect; Laser damage; Laser glasses; Laser rod materials; Modulators; Nonlinear index of refraction; Optical glasses; Polarizer materials; *NBSIR 74-458*. **SP305-6.**
- Self-focusing; Apodization; Beam breakup; Instability of the nonlinear propagation; Propagation codes; *SP414*, pp. 7-10. **SP305-6.**
- Self-focusing; Apodizers; Glass lasers; *SP414*, pp. 2-6. **SP305-6.**
- Self-focusing; Bulk damage; Damage threshold; Elliptical beams; Enhancement; *SP372*, pp. 84-91. **SP305-4.**
- Self-focusing; Damage threshold; Disk amplifiers; Eikonal; Scattering; *SP387*, pp. 57-62. **SP305-5.**
- Self-focusing; Damage threshold; Electrostriction; Kerr effect; Laser damage in glasses; Optical glasses; *SP372*, pp. 92-93. **SP305-4.**
- Self-focusing; Damage threshold; Electrostriction; Kerr effect; Laser damage in glasses; Optical glasses; 13016. **SP305-4.**
- Self-focusing; Glass; Laser damage; *J.76A No. 4*, 337-340 (1972). **SP305-4.**
- Self-focusing; Laser damage; Laser materials; *SP356*. **SP305-5.**
- Self-focusing; Subnanosecond pulses; Damage mechanisms; Laser systems; Disk amplifiers; Nd: YAG laser; *SP372*, pp. 100-103. **SP305-4.**
- Self-focusing; Surface damage; Alkali halides; Avalanche breakdown; Bulk damage; *SP372*, pp. 27-39. **SP305-4.**
- Self-focusing; Thermal self-focusing; Absorption coefficient; Damage threshold; Electrostrictive self-focusing; Electrostriction; Kerr effect; Laser damage; Nonlinear index of refraction; 13529. **SP305-5.**
- Self-focusing; Thermal self-focusing; Thoria:yttrium oxide ceramic; Yttrium aluminum garnet; Absorption coefficient; Calcite; Damage threshold; Deuterated potassium dihydrogen phosphate; Electrostriction; Electrostrictive self-focusing; Inclusion damage; 13793. **SP305-5.**
- Self-focusing; Thermal self-focusing; Yttrium aluminum garnet; Absorption coefficient; Electrostriction; Kerr effect; Laser damage; Nonlinear refractive index; Optical glasses; *SP372*, pp. 26-35. **SP305-5.**
- Self-focusing; Thermal self-focusing; Absorption coefficient; Damage threshold; Electrostriction; Electrostrictive self-focusing; Kerr effect; Laser damage; Nonlinear index of refraction; 13964. **SP305-6.**
- Self-focusing; Thin films; Avalanche ionization; IR windows and mirrors; Laser damage; Laser materials; Multiphoton processes; *SP435*. **SP305-8.**
- Self-focusing; Thin films; IR windows and mirrors; Laser damage; Laser materials; *SP387*. **SP305-5.**
- Self-focusing; Thin films; IR windows and mirrors; Laser damage; Laser materials; *SP372*. **SP305-4.**
- Self-focusing; Thin films; IR windows and mirrors; Laser damage; Laser materials; *SP414*. **SP305-6.**
- Self-focusing; Three-wave mixing; Ac Kerr effect; Glasses; Nonlinear optical effects; Nonlinear optical susceptibility; *SP414*, pp. 207-213. **SP305-6.**
- Self-generated atmosphere; Calibration filters; Chrysotile; Environmental health; Improved methodologies; Particulates; Quartz; 15466. **SP305-7.**
- Self-inhibition; Thermal control; 1-butene; 2-butene; Confront reactions; Consecutive reactions; Controlled oxidation; Conventional additive experiments; Cool-flames; Intermediate products; Isobutane; Isotopic tracer techniques; *SP357*, pp. 111-117. **SP305-4.**

- interacting polymer chains; Asymmetry of polymer configurations; Excluded volume; Principal moments; Radius of gyration; 14016. **SP305-6.**
- luminescent sources; Test procedures; Classification; Containment; Designation; Light sources; National standard; Radiation source; Radioactive; Radioluminescent products; 11116. **SP305-8.**
- nucleation; Steady-state; Cilia; Conformational entropy; Free energy; Nucleation rate; Rate constants; 12293. **SP305-9.**
- nulling ellipsometer; Thin films; Corrosion; Electronic ellipsometer; Faraday cells; 14409. **SP305-6.**
- reversal; Uranium spectrum; Uranium, spectrum; Spectrum, uranium; 170A4-408, 323-324 (1966). **SP305.**
- surface ionization; Electron affinity; Ion sublimation energy; Mass spectrometry; Molybdenum; Positive and negative ions; 10347. **SP305-1.**
- surface ionization; Singly charged positive and negative atomic ions; Sublimation energies; Tantalum; Electron affinity; 12747. **SP305-4.**
- surface ionization; Tungsten; Electron affinity; Ion sublimation energy; Mass spectrometry; Positive and negative atomic ions; Rhenium; 10181. **SP305-1.**
- teaching; Statistical analysis; Automatic printing; Bessel functions; Data analysis; Data manipulation; Easy and effective programming in English; List of instructions; Matrix operations; Numerical analysis; OMNITAB II user oriented computing system; TN552. **SP305-3.**
- Ter; Specifications; Validation; Buyer; Computer software; Marketplace; Performance measurement; Quality; 15495. **SP305-7.**
- M; Lunar soil; Metal inclusions; Meteorite; Microstructure; 12131. **SP305-3.**
- M; Specimen criteria; Al-W alloy; Resolution test specimen; 3846. **SP305-6.**
- M; Specimen criteria; Resolution; Resolution specimens; Secondary emission; 12718. **SP305-4.**
- M applications; SEM dynamic experiments; SEM specimen preparation; SEM stroboscopy; Stereomicroscopy; Scanning electron microscope; 15245. **SP305-7.**
- M contrast formation; SEM image defects; SEM image formation; SEM image quality; Signal processing; Scanning electron microscope; 15250. **SP305-7.**
- M dynamic experiments; SEM specimen preparation; SEM stroboscopy; Stereomicroscopy; Scanning electron microscope; SEM applications; 15245. **SP305-7.**
- M image defects; SEM image formation; SEM image quality; Signal processing; Scanning electron microscope; SEM contrast formation; 15250. **SP305-7.**
- M image formation; SEM image quality; Signal processing; Scanning electron microscope; SEM contrast formation; SEM image defects; 15250. **SP305-7.**
- M image quality; Signal processing; Scanning electron microscope; SEM contrast formation; SEM image defects; SEM image formation; 15250. **SP305-7.**
- M specimen preparation; SEM stroboscopy; Stereomicroscopy; Scanning electron microscope; SEM applications; SEM dynamic experiments; 15245. **SP305-7.**
- M stroboscopy; Stereomicroscopy; Scanning electron microscope; SEM applications; SEM dynamic experiments; SEM specimen preparation; 15245. **SP305-7.**
- nanitics; Specificity; Experimental conditions; Imprecision; Information system design; Levels of abstraction; Nanotechnology; 11153. **SP305-2.**
- nanitics; Systems approach; Building industry; Building production process; Building systems; Innovation; Performance approach; SP361, Vol. 1, pp. 207-212. **SP305-4.**
- Auger effect; X-ray photoelectron spectra; Argon, KCl, CH<sub>2</sub>Cl<sub>2</sub>, SF<sub>6</sub>; L and K x-ray spectra; 14400. **SP305-6.**
- Semiconducting process; SF<sub>6</sub>; X-ray absorption of sulphur K, L and fluorine K; X-ray emission of sulphur K $\alpha$ , K $\beta$ , L and fluorine K $\alpha$ ; Molecular orbital model; 13101. **SP305-5.**
- Semiconducting; Correlations; Laser; Maser; Phase fluctuations; 11450. **SP305-2.**
- Semiconducting approximation; Electron exchange; Electron scattering; Hydrogen atoms; Indistinguishable particles; Phase shifts; Quantum mechanics; Scattering theory; 16122. **SP305-8.**
- Semiconducting S-matrix; Spectral line broadening; *ab initio* potentials; Atom-molecule interactions; Curved classical trajectories; HCl, CO, CO<sub>2</sub> with He, Ar; Rotation-vibration spectra; 16528. **SP305-8.**
- Semiconducting devices; Silicon; X rays; Dosimetry; Exposure rate measurements; Gamma rays; Radiation detection devices; Radiation detectors; Radiation monitoring; 10052. **SP305-1.**
- Semiconducting devices; Silicon; X rays; Dosimetry; Gamma rays; Photodiodes; Photovoltaic effects; Radiation detection; Radiation detectors; 11114. **SP305-2.**
- Semiconducting oxides; Spinels; Teflon bonded electrodes; Nickel cobalt oxides; Oxygen evolution, Pourbaix diagram; SP455, pp. 281-288 (Nov. 1976). **SP305-8.**
- Semiconducting polymers; Technology; Biopolymers; Dipole moments; Effects of radiation; Relaxation phenomena; 10466. **SP305-1.**
- Semiconducting SrTiO<sub>3</sub>; Superconducting SrTiO<sub>3</sub>; Critical fields; Heat capacity; Magnetization curves; 9269. **SP305.**
- Semiconducting systems; SrTiO<sub>3</sub>; Superconducting; Transition temperature; (Ba<sub>1-x</sub>Sr<sub>x</sub>)TiO<sub>3</sub>; (Ca<sub>1-x</sub>Sr<sub>x</sub>)TiO<sub>3</sub>; Critical fields; Magnetic moment; Penetration depth; 10817. **SP305-1.**
- Semiconducting transmission line; Electric near-field probe; Electromagnetic-field hazard; Field-strength measurements; Magnetic near-field probe; Near-field measurements; R-f hazard measurements; TN658. **SP305-7.**
- Semiconductivity; Metallic conductivity; Oxides; Pyrochlore structure; SP364, pp. 227-232. **SP305-4.**
- Semiconductivity; SrFe<sub>2</sub>Mn<sub>1-x</sub>O<sub>3-y</sub>; Antiferromagnetism; CaFe<sub>2</sub>Mn<sub>1-x</sub>O<sub>3-y</sub>; Defect structure; Mixed metal oxides; Mössbauer effect; Oxygen vacancies; Perovskite; SP364, pp. 265-273. **SP305-4.**
- Semiconductor; Automation; Integrated circuits; Measurements; Microelectronics; Process control; Reliability; 16116. **SP305-8.**
- Semiconductor; Bandgap; Band structure; Cadmium fluoride excitons; Optical absorption; Reflectivity; 13017. **SP305-4.**
- Semiconductor; Cuprous oxide; Implantation; Ion; Nondestructive testing; Raman scattering; Sample characterization; 15915. **SP305-8.**
- Semiconductor; Magnetic field; Maxwellian distribution; Scattering; 12078. **SP305-3.**
- Semiconductor; Silicon; Detector; Proton; Radiation effect; 10474. **SP305-1.**
- Semiconductor; Silicon; Detector; Proton; Radiation effect; 10881. **SP305-2.**
- Semiconductor; Silicon; Strontium titanate; Modulation technique; Optical; Piezo-optical; 9708. **SP305-1.**
- Semiconductor; Silicon; Titanium dioxide; Acetonitrile; Cyclic voltammetry; Electrochemistry; Nonaqueous; SP455, pp. 149-152 (Nov. 1976). **SP305-8.**
- Semiconductor; Solid state; Amplifiers; Basic characteristics; Microwave; Oscillators; TN597. **SP305-3.**
- Semiconductor; Spreading resistance; Boundary correction; Calculations; Electrostatic analogue; Resistivity; SP400-10, pp. 45-50. **SP305-6.**
- Semiconductor; SrTiO<sub>3</sub>; Superconductor; Electronic band structure; Heat capacity; Mixed titanate; Phase transition; 10330. **SP305-1.**
- Semiconductor; Strontium titanate; Bandstructure; Insulator; Magnetic susceptibility; Pauli paramagnetism; 9453. **SP305.**

- Semiconductor; Strontium titanate; Band structure; Effective mass; Electronic transport properties; 9723. SP305-1.
- Semiconductor; Strontium titanate; Energy band structure; Magnetoresistance; 9724. SP305-1.
- Semiconductor; Superconducting energy gap; Tunnel junction; GeTe; 9409. SP305.
- Semiconductor; Superconducting semiconductor; Superconductivity; Tunneling; Density of states; Low density semiconductor; 11357. SP305-2.
- Semiconductor; Transport; Magnetophonon effect; Seebeck effect; 14212. SP305-6.
- Semiconductor; Traps; Zinc oxide; Dislocation; Electrochemical; Exchange current; SP455, pp. 139-148 (Nov. 1976). SP305-8.
- Semiconductor amplifiers; Will-to-think; Creative-failure methodology; Invention of transistor; Junction transistor; Patents; SP388, pp. 47-88. SP305-6.
- Semiconductor array; Stepping motor; Backup detectors; Counting rate corrections; Electron scattering; Relative efficiencies; 10671. SP305-1.
- Semiconductor breakdown; Silicon diodes; Anisotropy; Crystallographic orientation; Hot carriers; J.73A No. 3, 321-331 (1969). SP305-1.
- Semiconductor characterization; Semiconductor device; Silicon; Square array; Bulk resistivity; Collector resistivity; Four-probe; Planar test structure; Resistivity; 16424. SP305-8.
- Semiconductor characterization; Silicon; Carrier lifetime; Gold-doped silicon; Resistivity; 13419. SP305-5.
- Semiconductor characterization; Silicon; Thermally stimulated measurements; Defect centers;  $p$ - $n$  junction; 14226. SP305-6.
- Semiconductor characterization; Surface photovoltage; Absorption coefficients; Epitaxial silicon; Minority carrier diffusion length; Minority carrier lifetime; 13071. SP305-5.
- Semiconductor defects; Silicon; Thermally stimulated capacitance; Thermally stimulated current; Gold-doped silicon; Measurement methods; MOS capacitor;  $p$ - $n$  junction; 16363. SP305-8.
- Semiconductor detectors; Detector telescope; Large area detectors; Photonuclear physics apparatus; Scattering chamber; 9298. SP305.
- Semiconductor detectors; Gamma ray detectors; Germanium; 10473. SP305-1.
- Semiconductor detectors; Silicon; Monoenergetic electrons; Monte Carlo calculations; Response function; 10629. SP305-1.
- Semiconductor device; Silicon; Square array; Bulk resistivity; Collector resistivity; Four-probe; Planar test structure; Resistivity; Semiconductor characterization; 16424. SP305-8.
- Semiconductor devices; Device inspection; Electron-beam-induced current; Microelectronics;  $p$ - $n$  junctions; Scanning electron microscopy; 16449. SP305-8.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; TN754. SP305-5.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated measurements; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; TN773. SP305-5.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; TN788. SP305-5.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Spreading resistance; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Beam leads; Carrier lifetime; Delay time; TN806. SP305-5.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bond; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; TN717. SP305-4.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bond; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; TN727. SP305-4.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; TN733. SP305-4.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; TN743. SP305-4.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bond; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; TN702. SP305-3.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; ASTM standards; Integrated circuits; Microelectronics; 11869. SP305-3.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bond; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; TN560. SP305-3.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bond; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; TN571. SP305-3.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bond; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; TN592. SP305-3.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bond; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; TN598. SP305-3.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal properties; Wire bond; Carrier lifetime; Electrical properties; Germanium; Method of measurement; Microelectronics; TN472. SP305-1.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Germanium; Metallization; Methods of measurement; TN475. SP305-1.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; TN488. SP305-1.
- Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; TN495. SP305-1.



Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; Wire bonds; Contact resistance; *SP400-1. SP305-6.*  
 Semiconductor devices; Semiconductor materials; Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; Test patterns; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Thick film copper; Voltage contrast mode; Wire bonds; *SP400-4. SP305-6.*  
 Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic microphone; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; *TN520. SP305-2.*  
 Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; *TN527. SP305-2.*  
 Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; *TN555. SP305-2.*  
 Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Ultrasonic bonding; Voltage contrast mode; *SP400-8. SP305-7.*  
 Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; *SP400-12. SP305-7.*  
 Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Boron nitride; Boron redistribution; *SP400-17. SP305-7.*  
 Semiconductor devices; Semiconductor materials; Semiconductor process control; Shear test; Sheet resistors; Silicon; Silicon on sapphire; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Transistors; Ultrasonic bonding; Wire bonds; *SP400-19. SP305-8.*  
 Semiconductor devices; Semiconductor process control; Sheet resistors; Test patterns; Thermally stimulated currents; MOS capacitors; *p-n* junctions; Resistivity of silicon; *SP400-21. SP305-8.*  
 Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Silicon dioxide; Silicon on sapphire; Spreading resistance; Test patterns; Thermally stimulated current; Thermal resistance; Ultrasonic wire bonding; Voltage contrast mode; *SP400-25. SP305-8.*  
 Semiconductor devices; Semiconductor process control; Silicon; Automation; Electronics; Integrated circuits; Measurement technology; *NBS-GCR-76-64. SP305-8.*  
 Semiconductor devices; Silicon; Surface analysis; X-ray photoelectron spectroscopy; Auger spectroscopy; Depth profiles; Electron beam induced imaging; ESCA; Insulator films; Interface characteristics; Internal photoemission; Ion scattering spectroscopy; *SP400-23. SP305-8.*  
 Semiconductor devices; Silicon; Test methods; Microelectronics; Monolithic microcircuits; Reliability; *10858. SP305-1.*

Semiconductor devices; Silicon; Wire bonding; Die bonding; Hermeticity; Integrated circuits; Measurement methods; Microelectronics; Oxides; Photolithography; Process control; Reliability; *SP400-3. SP305-6.*  
 Semiconductor devices; Surgical implants; Cardiac pacemaker; Data banks; Failure analysis; Failure modes; Hermeticity; Hybrid devices; Leak testing; Measurement technology; Microelectronics; MOS devices; Process control; Reliability; *SP400-28. SP305-8.*  
 Semiconductor devices; Survey (wire bond); Testing (wire bond); Thermocompression bonding; Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); *TN726. SP305-4.*  
 Semiconductor devices; Temperature, peak; Thermal properties; Transistors, power, safe-operating area; Method of measurement, electrical; *15493. SP305-7.*  
 Semiconductor devices; Testing (wire bond); Wire bond; Bonding; Electrical connection; Failure (wire bond); Integrated circuits; Microelectronics; Reliability; *TN786. SP305-5.*  
 Semiconductor devices; Testing (wire bond); Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; Integrated circuits; Microelectronics; *SP400-2. SP305-6.*  
 Semiconductor devices; Thermal breakdown; Transistors; Bibliography; Device reliability; Diodes; Failure mechanisms; Failure modes; Second breakdown; *TN431. SP305.*  
 Semiconductor devices; Thermal breakdown; Transistor reliability; Transistors; Circuit reliability; Diodes; Failure mechanisms; Failure modes; Review; Second breakdown; *10230. SP305-1.*  
 Semiconductor devices; Thermal resistance; Transistor, power; Current crowding; Hot spots; Reliability; Safe operating area limits; Second breakdown; *16328. SP305-8.*  
 Semiconductor devices; UHF transistor measurements; Device nonlinearity measurements; Hot spots, transistor; Laser scanning; Nondestructive tests; *16571. SP305-8.*  
 Semiconductor devices; Ultrasonic bonding; Wire bond; Bond angle; Bonding; Bond pull test; Bond-to-bond spacing; Large wire; Loop height; Microelectronics; Nondestructive bond pull test; Position of hook; Pull rate; Pull strength; Resolution-of-forces; *SP400-18. SP305-8.*  
 Semiconductor devices; Weight test; Bubble test; Gas analysis; Helium leak test; Hermeticity; Integrated circuits; Measurement methods; Microelectronics; Radioisotope test; Seals; *SP400-9. SP305-6.*  
 Semiconductor devices; Wire bond; Electrical connection; Failure analysis; Intermetallic compounds; Kirkendall voids; Microelectronics; Reliability; *14525. SP305-6.*  
 Semiconductor diodes; Carrier lifetime; Reverse recovery; *15259. SP305-7.*  
 Semiconductor dopant concentration; Spreading resistance; Computer modeling; Correction factors; Dopant profiles; Multilayer spreading resistance model; Resistivity; *SP400-10, pp. 75-94. SP305-6.*  
 Semiconductor electrode; Flat band potential; Hydrogen evolution; Oxide electrode; Perovskite surface composition; Rotating electrode voltammetry; *SP455, pp. 229-240 (Nov. 1976). SP305-8.*  
 Semiconductor electrode; Tin oxide electrode; Transparent electrode; Adsorption; Anodic oxidation; Electrocatalysis; *SP455, pp. 175-181 (Nov. 1976). SP305-8.*  
 Semiconductor electrodes; Carbon; Electrocatalysis; Nickel oxide; Oxide electrodes; Oxygen electrochemistry; *SP455, pp. 203-219 (Nov. 1976). SP305-8.*  
 Semiconductor electrodes; Stability, surface layers; Surface reactions; Anodic decomposition; Cathodic decomposition; Electrochemistry; Inorganic bronze electrodes; Metal electrodes; *SP455, pp. 267-280 (Nov. 1976). SP305-8.*

- Semiconductor electronics; Sheet resistors; Silicon; Test pattern; Test structures; Dopant density; Microelectronics; MOS capacitors; *n-p-n* transistor fabrication; *p-n* junctions; Resistivity; *SP400-22*. **SP305-8.**
- Semiconductor gas sensor; Sensor contamination; False alarm; Fire detector; Fire test; Residential smoke detector; *NBSIR 74-591*. **SP305-7.**
- Semiconductor grade silicon; Trichlorosilane; Boron measurements; Mass spectrometry; *SP422*, pp. 709-714 (Aug. 1976). **SP305-8.**
- Semiconductor infrared windows; Solid state plasma; Two-stream instability threshold; Damage threshold of GaAs; Extended Shockley avalanche; Pulsed laser damage; *SP414*, pp. 200-206. **SP305-6.**
- Semiconductor laser; Delta-function formulation of density of states; Green effect; *k*-conserving transitions; Landau levels; Laser semiconductor; Magneto-optical density of states; Optical density of states; *SP323*, pp. 437-450. **SP305-4.**
- Semiconductor lasers; Cryogenic cooler; Light emitters; Mode switching; Photo detectors; *9838*. **SP305-1.**
- Semiconductor material inhomogeneities; Measurement methods; Photovoltaic; Electron voltaic; Photoconductivity; Point potential probe; Spreading resistance; Voltage breakdown; Bibliography; *TN445*. **SP305-1.**
- Semiconductor materials; AgGaS<sub>2</sub>; Chalcogenides; Chalcopyrite; I-III-VI<sub>2</sub> compounds; Crystal growth; CuGaS<sub>2</sub>; CuInS<sub>2</sub>; D-bands; Direct bandgap semiconductors; Nonlinear optical materials; *SP364*, pp. 671-679. **SP305-4.**
- Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN754*. **SP305-5.**
- Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated measurements; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; *TN773*. **SP305-5.**
- Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; *TN788*. **SP305-5.**
- Semiconductor materials; Semiconductor process control; Silicon; S-parameters; Spreading resistance; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Beam leads; Carrier lifetime; Delay time; Die attachment; *TN806*. **SP305-5.**
- Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; *TN717*. **SP305-4.**
- Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; *TN727*. **SP305-4.**
- Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN733*. **SP305-4.**
- Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN743*. **SP305-4.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurements; trasonic bonder; Wire bonds; Alpha-particle detectors; A minimum wire; Base transit time; Carrier lifetime; Die attachment; *TN702*. **SP305-3.**
- Semiconductor materials; Semiconductor process control; icon; ASTM standards; Integrated circuits; Microelectronic Semiconductor devices; *11869*. **SP305-3.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurements; trasonic bonder; Wire bonds; Alpha-particle detectors; A minimum wire; Carrier lifetime; Die attachment; Electrical properties; *TN560*. **SP305-3.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurements; trasonic bonder; Wire bonds; Alpha-particle detectors; A minimum wire; Base transit time; Carrier lifetime; Die attachment; *TN571*. **SP305-3.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurements; trasonic bonder; Wire bonds; Alpha-particle detectors; A minimum wire; Base transit time; Carrier lifetime; Die attachment; *TN592*. **SP305-3.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurements; trasonic bonder; Wire bonds; Alpha-particle detectors; A minimum wire; Base transit time; Carrier lifetime; Die attachment; *TN598*. **SP305-3.**
- Semiconductor materials; Semiconductor process control; icon; Thermal properties; Wire bonds; Carrier lifetime; Electrical properties; Germanium; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; *TN475*. **SP305-1.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurement; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Germanium; Metallization; Methods of measurement; Microelectronics; *TN475*. **SP305-1.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurement; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; *TN488*. **SP305-1.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurement; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; *TN495*. **SP305-1.**
- Semiconductor materials; Semiconductor process control; Shunt resistance; Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; Wire bonds; Contact resistance; Die attachment; *SP400-1*. **SP305-6.**
- Semiconductor materials; Semiconductor process control; Shunt resistance; Silicon; Spreading resistance; Test patterns; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Thick film copper; Voltage control mode; Wire bonds; *SP400-4*. **SP305-6.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurements; Ultrasonic microphone; Wire bonds; Alpha detectors; A minimum wire; Carrier lifetime; Die attachment; Electrical properties; *TN520*. **SP305-2.**
- Semiconductor materials; Semiconductor process control; icon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN527*. **SP305-2.**

Semiconductor materials; Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; *TN555. SP305-2.*

Semiconductor materials; Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Ultrasonic bonding; Voltage contrast mode; Wire bonds; *SP400-8. SP305-7.*

Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Boron redistribution; *SP400-12. SP305-7.*

Semiconductor materials; Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Boron nitride; Boron redistribution; *SP400-17. SP305-7.*

Semiconductor materials; Semiconductor process control; Shear test; Sheet resistors; Silicon; Silicon on sapphire; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Transistors; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; *SP400-19. SP305-8.*

Semiconductor materials; Semiconductor process control; Silicon; Silicon dioxide; Silicon on sapphire; Spreading resistance; Test patterns; Thermally stimulated current; Thermal resistance; Ultrasonic wire bonding; Voltage contrast mode; X-ray photoelectron spectroscopy; *SP400-25. SP305-8.*

Semiconductor materials; Silicon; Spreading resistance; Automated testing; Epitaxial silicon; Impurity concentration; Resistivity; *SP400-10, pp. 95-98. SP305-6.*

Semiconductor materials; Thin films; X-ray fluorescence; X-ray microanalysis; Distribution functions; Electron probe microanalysis; *15967. SP305-8.*

Semiconductor materials test; Speed of light; Measures for air quality; Metric chart; RF measurements; Runway capacities; *TNB 57, No. 1, 1-24 (1973). SP305-5.*

Semiconductor nuclear radiation detectors; Charge carrier lifetime; Lithium-compensated silicon; *9438. SP305.*

Semiconductor nuclear radiation detectors; Gamma-ray spectrometers; Ge(Li) detectors; Lithium driftability; Lithium mobility; *11776. SP305-2.*

Semiconductor optical properties; Two-photon absorption coefficients; Multiphoton processes; Nonlinear absorption; Nonlinear optical properties; *SP435, pp. 369-388 (Apr. 1976). SP305-8.*

Semiconductor process control; Shear test; Sheet resistors; Silicon; Silicon on sapphire; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Transistors; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; *SP400-19. SP305-8.*

Semiconductor process control; Sheet resistance; Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; Wire bonds; Contact resistance; Die attachment; Dopant profiles; *SP400-1. SP305-6.*

Semiconductor process control; Sheet resistance; Silicon; Spreading resistance; Test patterns; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Thick film copper; Voltage contrast mode; Wire bonds; X-ray photoelectron spectroscopy; *SP400-4. SP305-6.*

Semiconductor process control; Sheet resistors; Test patterns; Thermally stimulated currents; MOS capacitors; *p-n* junctions; Resistivity of silicon; Semiconductor devices; *SP400-21. SP305-8.*

Semiconductor process control; Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; *TN754. SP305-5.*

Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated measurements; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; *TN773. SP305-5.*

Semiconductor process control; Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; *TN788. SP305-5.*

Semiconductor process control; Silicon; S-parameters; Spreading resistance; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Beam leads; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; *TN806. SP305-5.*

Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN717. SP305-4.*

Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN727. SP305-4.*

Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN743. SP305-4.*

Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN702. SP305-3.*

Semiconductor process control; Silicon; ASTM standards; Integrated circuits; Microelectronics; Semiconductor devices; Semiconductor materials; *11869. SP305-3.*

Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN560. SP305-3.*

Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN571. SP305-3.*

Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN592. SP305-3.*

Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN598. SP305-3.*

- Semiconductor process control; Silicon; Thermal properties; Wire bonds; Carrier lifetime; Electrical properties; Germanium; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; *TN472*. SP305-1.
- Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Germanium; Metallization; Methods of measurement; Microelectronics; Resistivity; *TN475*. SP305-1.
- Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; *TN488*. SP305-1.
- Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; *TN495*. SP305-1.
- Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic microphone; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; *TN520*. SP305-2.
- Semiconductor process control; Silicon thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; *TN527*. SP305-2.
- Semiconductor process control; Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; *TN555*. SP305-2.
- Semiconductor process control; Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Ultrasonic bonding; Voltage contrast mode; Wire bonds; Boron redistribution; Darlington pairs; *SP400-8*. SP305-7.
- Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Boron redistribution; Darlington pairs; *SP400-12*. SP305-7.
- Semiconductor process control; Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Boron nitride; Boron redistribution; Capacitance-voltage methods; Darlington pairs; *SP400-17*. SP305-7.
- Semiconductor process control; Silicon; Silicon dioxide; Silicon on sapphire; Spreading resistance; Test patterns; Thermally stimulated current; Thermal resistance; Ultrasonic wire bonding; Voltage contrast mode; X-ray photoelectron spectroscopy; Acoustic emission; *SP400-25*. SP305-8.
- Semiconductor process control; Silicon; Automation; Electronics; Integrated circuits; Measurement technology; Semiconductor devices; *NBS-GCR-76-64*. SP305-8.
- Semiconductor surface preparation; Silicon; Spreading resistance; Dopant concentration; Dopant profiles; Metal-semiconductor contacts; Resistivity; *SP400-10*. SP305-6.
- Semiconductor surface states; Chemisorption; Electrocatalysis; Electron transfer theory; Multistep redox reactions; *SP455*, pp. 1-19 (Nov. 1976). SP305-8.
- Semiconductor surface structure; Silicon; Field-ion microscopy; *15128*. SP305-7.
- Semiconductor technology; Diffusion equations; Finite-difference techniques; Impurity redistribution; Moving boundary problems; Numerical methods; Partial differential equations; *15175*. SP305-7.
- Semiconductor technology; Integrated circuits; Microelectronics; Micrometrology; Photolithography; Photomasks; *SP400-20*. SP305-7.
- Semiconductor technology; Thermocouple data; Video tape; Warning lights; Weights and measures; Auto paint; Chlorine monitor; Color measurements; Color use; Postdoctoral appointments; Retroreflectors; *DIM/NBS 58*, No. 9, 193-2 (1974). SP305-6.
- Semiconductors; Band gaps; Binary compounds; Electronic properties; Insulators; *J. Phys. Chem. Ref. Data 2*, No. 1, 10 (1993). SP305-6.
- Semiconductors; Band structure; Covalent-ionic solids; Dislocation-electron interactions; Fermi energy; *SP317*, pp. 129-1302. SP305-3.
- Semiconductors; Band structures; Charged dislocation; Diamond lattice; Dislocation-electron interactions; *SP317*, pp. 1231-1253. SP305-3.
- Semiconductors; Barium titanate; Barium titanate oxalate; Neodymium; Rare earths; *11661*. SP305-2.
- Semiconductors; Cadmium telluride; Frequency dispersion; Lattice dynamics; Neutron inelastic scattering; Phonon dispersion relation; *14375*. SP305-6.
- Semiconductors; Conductivity; Electric field effects; Insulating films; Insulators; Metal oxidation; Metals; MOM devices; Cation; Oxidation theory; Parabolic law for metal oxidation; *16260*. SP305-8.
- Semiconductors; Cryogenic heat transfer; Measurements; *975*. SP305-1.
- Semiconductors; Defect level; Germanium; Impurity levels; Infrared response; Lithium-drifted diodes; *12757*. SP305-4.
- Semiconductors; Electron devices; Electron tubes; Soviet electron devices; *TN441*. SP305-1.
- Semiconductors; Semimetals; Superconductivity; Dielectric function; Green's function; *11025*. SP305-2.
- Semiconductors; Silicon; ASTM Committee F-1; Electronic Four-probe method; Resistivity; *NBSIR 74-496*. SP305-6.
- Semiconductors; Silicon; BASIC; Capacitance-voltage measurements; Computer programs; Dopant profiles; Error function; Gaussian diffusion; Plotting; computer; *SP400-11*. SP305-7.
- Semiconductors; Silicon; Deep impurities; Germanium; Infrared; Photoconductivity; Photoresponse; *TN570*. SP305-3.
- Semiconductors; Silicon; Defect level; Germanium; Impurity levels; Infrared response; Lithium-drifted diodes; *12757*. SP305-4.
- Semiconductors; Silicon; Defect levels; Impurity levels; Infrared response; Lithium-drifted radiation detectors; *12765*. SP305-4.
- Semiconductors; Silicon; Germanium; Isomorphogenesis; Measurement methods; Photovoltaic effect; Resistivity; *1422*. SP305-6.
- Semiconductors; Silicon; Test patterns; Data acquisition; Display; Integrated circuits; Measurement technology; Microelectronics; Process control; Reliability; *SP 400-1*. SP305-8.
- Semiconductors; Silicon; Thermally stimulated capacitance; Thermally stimulated current; Cryostat; Defects; Gold-doped silicon; Measurement methods; Microelectronics; MOS capacitor; *p-n* junctions; *SP400-26*. SP305-8.
- Semiconductors; Solid-state devices; X-band measurements; Diodes; Gamma rays; Hardness assurance; Microwave mixers; Mixers; Neutrons; Radiation hardness; Receive Schottky-barrier diodes; *SP400-7*. SP305-8.
- Semiconductors; Spreading resistance measurements; Surface effects; Surface preparation; Bevel polishing; *p-type* silicon; Resistivity depth profiling; Resistivity radial profiling; *SP400-10*, pp. 249-256. SP305-6.



- semiconductors; SrTiO<sub>3</sub>; Strontium titanate; Superconductivity; Surface potential barrier; Tunneling; Indium; 11925. SP305-3.
- semiconductors; SrTiO<sub>3</sub>; Superconductivity; BaSrTiO<sub>3</sub>; CaSrTiO<sub>3</sub>; Ceramics; Magnetization; Mixed titanates; 10235. SP305-1.
- semiconductors; SrTiO<sub>3</sub>; Superconductivity; Transition temperatures; 10381. SP305-1.
- semiconductors; Statistical thermodynamics; Formation enthalpy; Formation entropy; Formation free energy; Formation volume; Ionic solids; Metals; Noble gas solids; Point defects; 12966. SP305-4.
- semiconductors; Strontium titanate; Superconductivity; 9397. SP305.
- semiconductors; Strontium titanate; Transition metal compounds; Transport measurements; Electronic band structure; Oxides; 11623. SP305-2.
- semiconductors; Strontium titanate; Effective mass; Energy bands; Ionic crystals; Polarons; 11011. SP305-2.
- semiconductors; Strontium titanate; Piezoresistive effects; 11309. SP305-2.
- semiconductors; Superconducting semiconductors; Solid state; Strontium titanate; 11582. SP305-2.
- semiconductors; Superconductivity; Tunneling; Density of states; Phonons; SP323, pp. 673-679. SP305-4.
- semiconductors; Superconductivity; Titanates; Ceramic; Ferroelectric; Mixed compounds; 9726. SP305-1.
- semiconductors; Superconductivity; Tunneling; Density of states; Phonons; J74A No. 4, 559-565 (1970). SP305-2.
- semiconductors; Superconductor; Transition temperature; Energy gap equation; 13531. SP305-5.
- semiconductors; Surface photovoltage; Bibliography; Diffusion length; Diode recovery; Excess carrier lifetime; Measurement methods; Photoconductive decay; Photoconductivity; Photomagnetoelectric effect; Recombination of excess carriers; TN465. SP305-1.
- semiconductors; Temperature sensitive phosphors; Transistors; Diodes; Failure mechanisms; Internal current distributions; Second breakdown; 10050. SP305-1.
- semiconductors; Thermoelectric power; Band structure; Properties of semiconductors; 16161. SP305-8.
- semiconductors; Thermomagnetism; Galvanomagnetism; Quantum transport theory; 15525. SP305-7.
- semiconductors; Transistors; X-ray diffraction microscopy; Dislocations; Failure mechanisms; Second breakdown; 10051. SP305-1.
- semiconductors; Transition pressures; Diamond-anvil pressure cell; Fixed point pressure scale; High pressure; NaCl pressure scale; Pressure measurement; Ruby fluorescence; 15224. SP305-7.
- semiconductors; Transport theory; Acoustoelectric gain; Hot electrons; Indium antimonide; Magnetoresistance; 12617. SP305-4.
- semiconductors; Transport theory; Boltzmann equation; Magnetoresistance; 13140. SP305-5.
- semiconductors; Transport theory; Boltzmann equation; Magnetophonon effect; 12918. SP305-4.
- semiconductors; Transport theory; InSb; Magnetophonon; Magnetoresistance; 12933. SP305-4.
- semiconductors; Transport theory; Magnetophonon effect; 13512. SP305-5.
- semiconductors; Transport theory; Magnetophonon effect; Magnetoresistance; TN614. SP305-4.
- semiconductors; Transport theory; Magnetophonon effect; 16643. SP305-8.
- semiconductors; U.S.S.R.; Electron devices; Electron tubes; TN715. SP305-4.
- semiconductors; U.S.S.R.; Electron devices; Electron tubes; TN835. SP305-6.
- Semiconductors; U.S.S.R.; Electron devices; Electron tubes; TN526. SP305-2.
- Semiconductors; Vacuum tubes; ASTM; History; 14438. SP305-6.
- Semiconductors; Zincblende structure; ZnTe; Electronic density of states; Gallium arsenide (GaAs); Indium antimony (InSb); Indium arsenide (InAs); Joint density of states; Nonlinear optical susceptibility; SP323, pp. 757-766. SP305-4.
- Semiconductors, diamond; Semiconductors, zinc blende; Spin-orbit splittings; Critical points; Diamond semiconductors; Electroreflectance; Gallium antimonide (GaSb); Gallium arsenide (GaAs); Germanium; SP323, pp. 411-415. SP305-4.
- Semiconductors, tetrahedrally bonded; Silicon; Zincblende; ZnSe; Aluminum phosphide (AlP); Electronic density of states; Exchange potential; Gallium arsenide (GaAs); Germanium; Self-consistent orthogonalized plane wave model (SCOPW); SP323, pp. 93-102. SP305-4.
- Semiconductors, zinc blende; Spin-orbit splittings; Critical points; Diamond semiconductors; Electroreflectance; Gallium antimonide (GaSb); Gallium arsenide (GaAs); Germanium; Semiconductors, diamond; SP323, pp. 411-415. SP305-4.
- Semiconductor-to-metal transitions; Structure transitions; Sulfides; Tellurides; Transition-metal chalcogenides; Trigonal-prismatic coordination; Dichalcogenides; Intercalation compounds; Layer structures; Modulated structures; SP364, pp. 625-635. SP305-4.
- Semi-continuum model; Alkali halide; Alkaline earth fluoride; Alkaline earth oxide; F center; Ionic crystal; Polarons; 10623. SP305-1.
- Semiconductum polaron model; CaF<sub>2</sub>; CaO; F center; Internal Stark effect; KCl; Optical phonons; Polarizable ion model; 12134. SP305-3.
- Semiconductum; Vacancy; Annealing; Chain fold; Chain rotation; Chain twisting; Defect; Dielectric relaxation; Mechanical relaxation; Polychlorotrifluoroethylene; Polyethylene; Polymer; 9462. SP305.
- Semi-direct model; Volume form; (n,y) cross sections; Calculations; Complex interaction; SP425, pp. 346-349. SP305-7.
- Semi-discrete approximations; Transport equation; A-priori bound; Convergence; Finite differences; Hyperbolic equation; Positive mapping; 12650. SP305-4.
- Semiempirical rules; Atoms; Extrapolation; Ionization potentials; Nontransition elements; 18335. SP305-6.
- Semiempirical calculations; Ab initio calculations; Atomic negative ions; Binding energy; Electron affinity; Excited states; Experimental methods; Fine structure splitting; Recommended values; J. Phys. Chem. Ref. Data 4, No. 3, 539-576 (1975). SP305-7.
- Semigroup; Stability theory; Topology; Contractions; Control theory; Functional analysis; J74B No. 2, 115-120 (1970). SP305-2.
- Semigroups; Stability theory; Contractions; Functional analysis; Operators; J74B No. 4, 311-319 (1970). SP305-2.
- Semi-infinite aluminum medium; Silicon detector; Absorbed energy vs depth; Absorbed-energy distributions; Incident monoenergetic electrons; Monte Carlo calculations; 12140. SP305-3.
- Semilinear; Analytic continuation; Analyticity; Complex variables; Elliptic type; First order systems; Partial differential equations; 13019. SP305-4.
- Semimetals; Superconductivity; Dielectric function; Green's function; Semiconductors; 11025. SP305-2.
- Semimicro; Sensitivity; Accuracy; Activation analysis; Element; Generator; Micro; Precision; Reactor; Selectivity; 1030. SP305-4.
- Seminar; South Asia trade; Testing; Certification; Developing countries; Exports; Industrializing countries; Labeling; SP438. SP305-8.

Semipermeable membranes; High speed osmometer; Number-average molecular weight; Osmometer; Osmotic pressure; 11185. SP305-2.

Semi-public good; Subsidization; Total cost recovery; User charges; Automated information retrieval; Cost benefit; Public good; Scientific and technical information; TN864. SP305-7.

Semi-Thue systems; Splinters; Combinatorial systems with axiom; Degrees of unsolvability; General decision problems; Markov algorithms; Many-one reducibility; Recursive functions; R.e. many-one degrees; R.e. one-one degrees; 14998. SP305-7.

Sensitive; Contour; Displacement; Distance; Distance-measurement; Field emission; Instrument; Measurement; Micrometer; Precise; 10141. SP305-1.

Sensitive detector; Vacuum ultraviolet; Absolute radiation detector; Absorption measurements; Filters; GM counter; 14903. SP305-7.

Sensitive isotropic probe; Broadband antenna; Electromagnetic compatibility; Fiber optics; Field strength measurement; Isolated EMC antenna; 16210. SP305-8.

Sensitive isotropic probe; Electromagnetic compatibility; Fiber optics; Field strength measurement; Isolated EMC antenna; NBSIR 75-819. SP305-8.

Sensitivities; Bremsstrahlung; Carbon; Electron accelerators; Nitrogen; Oxygen; Photon activation analysis; Review; 12076. SP305-3.

Sensitivities; Uncertainties; Adjustment; Critical assemblies; Cross sections; Evaluation; Integral data; SP425, pp. 405-408. SP305-7.

Sensitivity; Accuracy; Activation analysis; Element; Generator; Micro; Precision; Reactor; Selectivity; Semimicro; 13030. SP305-4.

Sensitivity; Afterheat; Decay heat; Error estimates; Fission products; Loss of coolant accident; SP425, pp. 29-38. SP305-7.

Sensitivity; Shield; Two dimensional; Cross section; SP425, pp. 459-463. SP305-7.

Sensitivity; Spectrophotometry; Statistical methods; Zinc; Atomic absorption; Cadmium; Copper; Lead; Manganese; SP422, pp. 1023-1033 (Aug. 1976). SP305-8.

Sensitivity; Switching; Dicke; Microwave; Radiometer; J71C2-252, 127-152 (1967). SP305.

Sensitivity; Tables; Accuracy; Atomic absorption; Detection limits; Differential method; Flame emission; Nonaqueous media; Precision; 12111. SP305-3.

Sensitivity; Temperature; Calibration; Ceramic; Condenser; Electret; Humidity; Microphones; Reciprocity; NBSIR 76-1090. SP305-8.

Sensitivity; Tungsten; Carbon monoxide; ESCA; Monolayer; Oxygen; Photoyield; 14027. SP305-6.

Sensitivity; Uncertainties; Air transport; Benchmark; Profiles; SP425, pp. 825-833. SP305-7.

Sensitivity; Uncertainties; Cross sections; Fusion reactors; Perturbation; SP425, pp. 674-679. SP305-7.

Sensitivity;  $^{13}\text{C}$ ; Fourier transform; Nmr; Relaxation; Scalar coupling; 12378. SP305-3.

Sensitivity;  $^{239}\text{Pu}$ ; Critical assemblies; ENDF/B-IV; Fission spectrum; Inelastic scattering; SP425, pp. 389-391. SP305-7.

Sensitivity analysis; Blood banks; Blood utilization statistics; Cost benefit analysis; Donor profiles; Peer review; Regulatory activities; TN777. SP305-5.

Sensitivity analysis; Highway traffic accidents; Indices; 13612. SP305-5.

Sensitivity analysis;  $\sigma_c$ ;  $^{101,102,104}\text{Ru}$ ; 1271; Adjustment; Evaluation; Fission products; SP425, pp. 165-168. SP305-7.

Sensitivity analysis; Steel; Structural mechanics; Uncertainty; Creep; Fire endurance; Fire tests; Reinforced concrete; BSS76. SP305-8.

Sensitivity and gamma-ray spectra of the elements; 3-MeV neutron activation analysis; Absolute flux; Cockcroft-Walton neutron generator; Sample attenuation corrections; 1191. SP305-3.

Sensitivity calculation; Air transport; Cross sections; Neutron Nitrogen; SP425, pp. 436-439. SP305-7.

Sensitivity loss; Supralinearity; Dosimetry; Fading; Furnace annealing; Glow curve; Maximum heating temperature; Peak height; Reproducibility; 15193. SP305-7.

Sensitivity of coefficient; Isotopic thermal diffusion coefficient; Fitting of experimental data; Potential function families; 11320. SP305-2.

Sensitivity shift; Strain gage; Temperature cycling; Temperature storage; Zero shift; Life testing; Pressure transducer; TN49. SP305-1.

Sensitivity study; Breeding ratio; Cross section uncertainty; Equilibrium cycle; Fuel cycle; Reactivity swing; SP425, p. 385-388. SP305-7.

Sensitivity vs. precision and accuracy; Standard Reference Materials; Atomic absorption spectrometry; Nonflame graphite furnace; SP422, pp. 1045-1051 (Aug. 1976). SP305-8.

Sensitization; Vacuum ultraviolet photolysis;  $\text{CO}_2$ ; Energy transfer; Quantum yield; Rare gas; 11781. SP305-2.

Sensitized fluorescence; Fluorescence; Quantum efficiency; Resonant energies; 9655. SP305-1.

Sensor; Temperature; Thermometer; Time constant; Cryogenic instrumentation; Measurement; Metrology; Response time; 9944. SP305-1.

Sensor; Ultra high vacuum; W-Re alloys; EMF-temperature relationship; Furnace; High temperature; Refractory metal thermocouple; Thermoelements; J75C No. 2, 99-10 (1971). SP305-3.

Sensor; Waveguide-below-cutoff; Absolute (unambiguous) readout; Piston; Precision attenuator; NBSIR 74-394. SP305-7.

Sensor; Waveguide-below-cutoff; Absolute (unambiguous) readout; Piston; Precision attenuator; NBSIR 76-833. SP305-8.

Sensor contamination; False alarm; Fire detector; Fire test; Residential smoke detector; Semiconductor gas sensor; NBSIR 74-591. SP305-7.

Sensor progress; Clinical SRM's; Distance to moon; Energy fire technology; Invisible moonlight; Iodine stabilized laser DIM/NBS 57, No. 11, 253-276 (1973). SP305-5.

Sensors; Superconductors; Liquefied gases, liquid level gage; Liquid level gages, hydrogen; Liquid rocket propellants; Performance (engineering); 9851. SP305-1.

Sensory acuity; Sensory deterioration; Spatial sets; User need; Age and perception; Complexity; Home range; Life cycle; Life space; Loss continuum; Macro space; Mastery; Micro space; Redundant cuing; SP361, Vol. 1, pp. 57-62. SP305-4.

Sensory deterioration; Spatial sets; User needs; Age and perception; Complexity; Home range; Life cycle; Life space; Loss continuum; Macro space; Mastery; Micro space; Redundant cuing; Sensory acuity; SP361, Vol. 1, pp. 57-62. SP305-4.

Sensory processes; Threat analysis; Behavioral impact; Cognitive processes; Nuclear weapon theft; Perceptual processes; Psychological deterrence; Security systems; NBSIR 76-100. SP305-8.

Separable forces; Effective forces; Nuclear forces; Nuclear shell model; Residual forces; 11120. SP305-2.

Separable potential; Three-body problem; Tritium; Electro scattering; Final state rescattering; Helium-3; 12849. SP305-4.

Separable potential; Tritium; Cross sections; Electric dipole; Helium-3; Photodisintegration; 10409. SP305-1.

Separable potentials; Three-body problem;  $^3\text{He}$ ; Polarization; Quasifree scattering; Rescattering effects; 13120. SP305-5.

- separable potentials; Three-body problem; Confidence cross sections;  $^3\text{He}(pd)$  vertex; Plane wave impulse approximations; Quasi-free scattering; *J3012*. **SP305-4.**
- Separation; Analysis; Concentration; Distillation; *9885*. **SP305-1.**
- Separation; Styrene-butadiene; Vinyl-acrylic; Acrylic; Identification; Infrared spectroscopy; Latex paints; Polyvinyl acetate; *10415*. **SP305-1.**
- Separation; Styrene/divinylbenzene; Zeolites; Air pollution; Bilirubin; Infrared analysis; Ion exchange; Liquid chromatography; Purification; *TN549*. **SP305-3.**
- Separation; Styrene/divinylbenzene; Ultra-pure reagents; Gas chromatography; Infrared analysis; Ion exchange; Liquid chromatography; Purification; *TN509*. **SP305-2.**
- Separation; Vertical separation; Aircraft; Air transportation; Air traffic control models; Altimetry; Altitude; Aviation; Collision risk; Error analysis; Mathematical models; Safety; *NBSIR 76-1067*. **SP305-8.**
- Separation by flow; Chromatography; Gel filtration; Gel permeation chromatography; Macromolecules; *12003*. **SP305-3.**
- Separation of variables; Difference equations; Functional equations; *J. 76B Nos. 3 and 4, 201-204 (1972)*. **SP305-4.**
- Separation of variables; Spectral measure; Tensor products; Convolution; Hilbert space; *J. Res. 80B No. 3, 347-351 (1976)*. **SP305-8.**
- Separations; Atomic absorption; Atomic fluorescence; Cobalt; Interferences; Iron; Nickel; *15577*. **SP305-7.**
- Separations; Chromatography; Interactive gel; *14501*. **SP305-6.**
- Separator materials; Battery separators; Nickel-cadmium batteries; Satellite batteries; *NBSIR 74-541*. **SP305-7.**
- Sequence cameras; Shopping; Surveillance; Surveillance cameras; Cameras; Demand cameras; Employee theft; Fixed surveillance; Motion picture surveillance; Robbery; *14923*. **SP305-7.**
- Sequences; Uniform distribution; Equidistribution; Numerical analysis; Pseudo-random; Quadrature; Random numbers; *11629*. **SP305-2.**
- Sequential decays; Two-particle reactions; Configuration interaction; Continuum states; Nuclear reactions; Nuclear structure; *9657*. **SP305-1.**
- Sequential test; Time scale; Atomic clock model; Detection; Flicker noise; *TN636*. **SP305-5.**
- Serial-by-bit; Serial-by-character; Telecommunications; Teleprocessing; American Standard Code for Information Interchange; ASCII; Communications; Data communications equipment; Data processing terminal equipment; Data transmission; *FIPS PUB 16*. **SP305-3.**
- Serial-by-bit; Telecommunications; Teleprocessing; American Standard Code for Information Interchange; ASCII; Character structure; Character parity sense; Communications; Data transmission; Federal information processing standards; *FIPS PUB 17*. **SP305-3.**
- Serial-by-character; Telecommunications; Teleprocessing; American Standard Code for Information Interchange; ASCII; Communications; Data communications equipment; Data processing terminal equipment; Data transmission; *FIPS PUB 16*. **SP305-3.**
- Serial-by-character; Telecommunications; Teleprocessing; American Standard Code for Information Interchange; ASCII; Character structure; Communications; Data transmission; Federal information processing standards; Parallel-by-bit; *FIPS PUB 18*. **SP305-3.**
- Series; Approximations; Computer programs; Computing pitfalls; Continued fractions; Error function; Recurrence relations; *J.74B No. 3, 211-224 (1970)*. **SP305-2.**
- Series; Calculation; Ionization; Neutral; Rare earths; *9384*. **SP305.**
- Series elements; Two-port standards; Immittance measurement; Radio frequency; *J.74C Nos. 3 and 4, 79-85 (1970)*. **SP305-2.**
- Series perturbations; Atomic spectra; Atomic wave functions; Oscillator strengths; *14351*. **SP305-6.**
- Series perturbations; Configuration interaction; Oscillator strength; *11182*. **SP305-2.**
- Series substitution; Attenuation; Measurement; Rotary-vane attenuator; *TN647*. **SP305-6.**
- Series summability methods; Convergence acceleration techniques; Epsilon-transformation; Nonlinear series transformation; Numerical methods; *J.73B No. 1, 25-29 (1969)*. **SP305-1.**
- Series-parallel; Tetrahedral junction; Four-terminal; Hamon divider; Resistance network; *14190*. **SP305-6.**
- Serrated yielding; Tensile test; Compliance; Luder's strain; Recrystallized iron; *14207*. **SP305-6.**
- Serum; Accurate; Blood; Concentrations; Determination; Dilution; Electrolyte; Isotope; Mass spectrometry; *SP422*, pp. 951-960 (Aug. 1976). **SP305-8.**
- Serum; Biological materials; Chromium; Cobalt; Contamination; Manganese; Sampling; *SP422*, pp. 299-310 (Aug. 1976). **SP305-8.**
- Serum; Calcium; Isotopes; Mass spectrometry; *13089*. **SP305-5.**
- Serum glucose; Clinical reference method; Definitive glucose method; Glucose in serum; Isotope dilution-mass spectrometry; *16343*. **SP305-8.**
- Serum magnesium; Standard material; Atomic absorption spectrometry; Magnesium gluconate; *14514*. **SP305-6.**
- Serum minerals; Serum storage effects; Sodium; Temperature effects; Trace elements; Zinc; Atomic absorption spectrophotometry; Calcium; Container effects; Copper; Magnesium; Potassium; *SP422*, pp. 575-591 (Aug. 1976). **SP305-8.**
- Serum storage effects; Sodium; Temperature effects; Trace elements; Zinc; Atomic absorption spectrophotometry; Calcium; Container effects; Copper; Magnesium; Potassium; Serum minerals; *SP422*, pp. 575-591 (Aug. 1976). **SP305-8.**
- Serum thermochemistry of enzyme processes; Analysis; Assay in serum; Bacterial growth calorimetry; Enzyme catalyzed processes; Glucose; Microcalorimetry; *14898*. **SP305-7.**
- Serums; Soap; Stabilizer; Styrene-butadiene rubber (SBR); Washes; Bound styrene; Carbon black; Chemical analysis; Latexes; Oil; Organic acid; *TN485*. **SP305-1.**
- Service; Computer; Interactive; Measurement; Procurement; Response; *16247*. **SP305-8.**
- Service; Computer networks; Data analysis; Interactive; Network service; Performance evaluation; Performance measurement; *TN897*. **SP305-8.**
- Service; Dosimetry; Electrons; Impact; Improvement; Performance; Radiation therapy; *SP456*, pp. 365-370 (Nov. 1976). **SP305-8.**
- Service; Users; Administration; Batch; Computing; Documentation; Remote; *13718*. **SP305-5.**
- Service; Utility; Computer; Evaluation; Measurement; Performance; *15093*. **SP305-7.**
- Service bureaus; Synthetic benchmarking; Workload characterization; Benchmarking; Charging algorithms; *16624*. **SP305-8.**
- Service bureaus; Synthetic benchmarking; Workload characterization; Benchmarking; Charging algorithms; *TN920*. **SP305-8.**
- Service failures; Stress concentration; Surface hardening; Crack initiation; Fatigue; Residual stress; *10507*. **SP305-1.**
- Service improvement; Communication; Cost-benefit; Deployment; Electronic transmission; Facility location; Mail; Mathematical programming; Message network synthesis; Network optimization; Satellite; *NBSIR 75-737*. **SP305-7.**
- Service industries; Automation; Computers; Productivity; *NBSIR 74-515*. **SP305-6.**
- Service loads; Stiffness; Strength; Testing; Variability; Accelerated aging; Building systems; Extreme loads; Performance criteria; Performance evaluation; *SP361, Vol. 1*, pp. 267-274. **SP305-4.**

Service sector; Automation; Consumers; Innovation; Institutional barriers; Productivity; 16319. SP305-8.

Serviceability; Dimensional measurement; Image enhancement; Imaging methods; Nondestructive evaluation; Radiography; 15148. SP305-7.

Serviceability; Stability; Adaption; Acrylic; Contraction; Dentures; Epoxy; Expansion; Hard rubber; Retention; 12189. SP305-3.

Serviceability; Stability; Structures; Design mode; Limit states design; Load; Performance criteria; Reinforced concrete; Reliability; Resistance mode; Safety; 14656. SP305-6.

Serviceability; Static; Vibration; Deflection; Dynamic; Floor systems; Human responses; Performance criteria; TN900. SP305-8.

Serviceability; Strength; Structural performance; Tests; Analysis; Concrete beams; Concrete plates; Ducts; Openings; SP361, Vol. 1, pp. 545-556. SP305-4.

Serviceability; Structures; Building criteria; Design; Optimization; Reliability; Safety; SP361, Vol. 1, pp. 181-190. SP305-4.

Services; Users-Providers; Creative-partnership; Management; Operating; Procurement; SP383. SP305-5.

Services—state/local government; Automation; Computer utilization; Dedicated computers; EDP expenditure; Employment; Finance; Productivity; 16075. SP305-8.

Servo-hydraulic system; Viscoelasticity; Yield point; Biaxial; Fatigue; Fracture; Laboratory automation; Mechanical testing; Plasticity; Polyvinyl chloride; 16626. SP305-8.

Sessile dislocations; X-ray dynamical diffraction; X-ray topography; Contrast conditions; Dynamical images; Immobile dislocations; Lomer locks; 16373. SP305-8.

Sessile dislocations; X-ray topography; Anomalous transmission; As-grown copper crystal; Crystal perfection; Czochralski growth; Lomer-Cottrell locks; 14779. SP305-7.

Set covering; Clique; Clique graph; Intersection graph; Pseudointersection graph; J. Res. 80B No. 4, 441-445 (1976). SP305-8.

Set reduction; Structure search; Substructure search; Ambiguity; Binary matrices; Bond adjacency; Chemical information; Computer; Control vector; 12337. SP305-3.

Set theory; Classification design; Combinatorics; J.71B/1-193, 21-22 (1967). SP305.

Set-retarding; Water-retarding; Accelerating concrete admixtures; Concrete admixtures; 9719. SP305-1.

Setting mechanisms; Colloidal theory; Crystallization theory; Gypsum; Hydration; Induction period; Plaster of paris; TN755. SP305-5.

Seven-point junction; Vector voltmeter; Amplitude; Computer controlled; Diode detectors; Microwave measurements; Phase angle; Self-calibration; NBSIR 76-844. SP305-8.

Sewage flow measurement; Flow measurement; water; Flumes, measuring; Open channel flow measurement; Palmer-Bowlus flumes; 15738. SP305-8.

Sewage sand; Sewer self-cleansing; Grit; Sand transport; 16374. SP305-8.

Sewage treatment; User fees; Water pollution; Cost sharing; Efficiency; Equity; Financing; Nonplant treatment; NBSIR 74-479. SP305-6.

Sewer self-cleansing; Grit; Sand transport; Sewage sand; 16374. SP305-8.

Sewing threads; Testing programs, sewing thread tests, sewing thread; Thread properties; Threads, sewing; Apparel industry; Industry, apparel; Performance, sewing thread; Properties, sewing thread; Quality control, sewing threads; 12382. SP305-4.

Sewn seam strapping; Solar heat load; Test procedure; Adhesives; Air-inflatable shelter sections; Cloth webs; Polyester and nylon fabrics; Sewn seams; NBSIR 74-467. SP305-6.

Sewn seams; Sewn seams; Sewn seams; Solar heat load; Test procedure; Adhesives; Air-inflatable shelter sections; Cloth webs; Polyester and nylon fabrics; Sewn seams; NBSIR 74-467. SP305-6.

$\sigma_1$ ;  $^{245}\text{Cm}$ ; Fast ionization chamber; Fission/alpha; Spherical electrodes; SP425, pp. 81-82. SP305-7.

Sferic interference; Earth-ionosphere waveguide; Electromagnetic noise; EMI measurement technique; NBSIR 74-30. SP305-6.

SFRL frequency measurement; Spin flip Raman laser; Frequency measurements on tunable lasers; IFS with a tunable laser; Infrared frequency synthesis; TN680. SP305-8.

SF<sub>6</sub>; Structure; Vibrational fundamental; Centrifugal distortion; Force field; Microwave spectrum; 13905. SP305-6.

SF<sub>6</sub>; Spectral region 80 Å to 630 Å; Vibrational band; Absorption coefficients; Rydberg series; 9637. SP305-1.

SF<sub>6</sub>; Xe; CO<sub>2</sub>; Critical exponents; Critical point; Equation of state; 16081. SP305-8.

SF<sub>6</sub>; X-ray absorption of sulphur K $\alpha$ , K $\beta$ , L and fluorine K $\alpha$ ; Molecular orbital model; Photon and electron excited emission spectra; 13101. SP305-5.

SF<sub>6</sub>; sulfur; X-ray; Absorption; Fine structure; K-edge; Molecular gas; 9879. SP305-1.

$\sigma_1(^{238}\text{U})$  shape; E $\alpha$  = 20-550 keV; SP425, pp. 620-622. SP305-7.

SH; Electron affinity; Free radical; Negative ion; Photodetachment; 11138. SP305-2.

SH; Ultraviolet; Infrared spectrum; Isolated SH; Low temperature; Matrix; 11846. SP305-3.

Shadowgraph; Homogeneity; Index gradient; Infrared; Interferometer; Laser; Measurement; Optical; Refractive index; 10023. SP305-1.

Shadowing effects; Diffractive production; Diffractive scattering; Glauber model; Hadronic components of photons; High energy scattering; Multiple scattering; Neutrino-nucleus interactions; Monogr. 139. SP305-7.

Shaft position encoder; Staple detector; Superconducting; Synthesis, chemical; Titration; Wind vane; Work position; Conductometry; Decoding matrix; Fluoroolefins; Integrated; Magnetic sensing probe; Magnetic tape; Microbridge; Numerical machine; TN744. SP305-4.

Shaft seal; Closed pumping system; He<sup>3</sup>-He<sup>4</sup> dilution refrigerator; Mass spectrometer leak detector; Mechanical pump; 12235. SP305-3.

Shake table; Structural engineering; Tests; Earthquake simulator; SP444, pp. V-250V-34 (Apr. 1976). go2SP305-8.

Shaker; Vibration; Accelerometer; Calibration; Comparison; calibration; Frequency range; 9306. SP305.

Shakers; Standards; Transducers; Vibration; Vibration excitation; Vibration pickups; Acceleration; Automation; Calibration; Measurements; 15569. SP305-7.

Shakers; Standards; Transducers; Vibration; Vibration excitation; Vibration pickups; Acceleration; Automation; Calibration; Measurements; Minicomputer; NBSIR 74-482. SP305-7.

Shakers; Time-shared computers; Vibration standard; Accelerometers; Calibration; 9983. SP305-1.

Shake-up; Structure; X-ray photoelectron spectroscopy; Oxygen; Ruthenium; Satellite; 15147. SP305-7.

Shallow cavity emittance; Surface characterization; Thorngsten; Emission; Graphite; Iridium; Laser-source integrating sphere; Reflectance; 12940. SP305-4.

Shandite; Sulfides; Chalcogenides; Parkerite; 14123. SP305-6.

Shape; Contours; Datum deformation; Irregular areas; Length; Linear measurement; Process evaluation; 10148. SP305-1.

Shape; Contours; Datum deformation; Irregular areas; Length; Linear measurement; Process evaluation; 10173. SP305-1.

Shape; Drop-ball test; Edge; Fracture; Impact; Ophthalmic lenses; 16311. SP305-8.



- Shape analysis; Nuclear reactions  $^{56}\text{Fe}$ ,  $^{58,60,61}\text{Ni}(n,\gamma)$ ,  $E \approx 6-150$  keV, deduced  $\gamma$ , width correlations; *SP425*, pp. 929-933. **SP305-7.**
- Shape dependent; Specific heat; Cerous magnesium nitrate; Cesium titanium alloy; Dipole-dipole interaction; Neodymium ethyl sulphate; *11909*. **SP305-3.**
- Shape of polymer chains; Spans; Unrestricted polymer chains; Monte Carlo analysis; Ordered spans; Self-avoiding polymer chains; *15622*. **SP305-7.**
- Shape resonance; Spectroscopic constant; Valence orbital; Electron scatter; Energy curve; Local potential;  $N_2$ ; Resonance width; *11899*. **SP305-3.**
- Shape resonance; Two-electron excitations; Absorption spectrum; Barium; Heat pipe; Inner shell excitation; *14989*. **SP305-7.**
- Shaping; Closed die; Forging; Isostatic; Polishing; Quartz; *SP462*, pp. 95-99 (Dec. 1976). **SP305-8.**
- Shaping; Size-effect; Statistical nature of strength; Ultrasonic cutting; Weibull distribution; Abrasion; Brittle-ductile transition; Erosion; Fracture location; Ring cracking; *SP348*, pp. 119-131. **SP305-4.**
- Shaping; Sizing; Capability; Ceramics; Grinding wheels; Selection; *SP348*, pp. 45-52. **SP305-4.**
- Shaping; Thermal shock control; Arc machining; Cutting; Drilling; Electron beam machining; Laser machining; *SP348*, pp. 193-195. **SP305-4.**
- Shared holes;  $\text{SrTiO}_3$ ; Color centers; EPR; Hole centers; Optical absorption; *11805*. **SP305-3.**
- Sharp edges; Sharp points; Threshold; Consumer products; Electrical breakdown; Gases; Hazard; High voltage; *NBSIR 75-908*. **SP305-7.**
- Sharp points; Threshold; Consumer products; Electrical breakdown; Gases; Hazard; High voltage; Sharp edges; *NBSIR 75-908*. **SP305-7.**
- Shear; Shell; Stress analysis; Thin wall; Torsion; Tube; Creep; Primary creep; *J.71C3-256*, 209-225 (1967). **SP305.**
- Shear; Temperature; Torsion pendulum;  $a$ ,  $c$  face of cell; Compliance; Crystallization-oriented; Lamella thickness; Logarithmic-decrement; Modulus; Polyethylene; Relaxations; *9689*. **SP305-1.**
- Shear; Transformers; Aircraft; Bend tests; Bolted joints; Bolts; Cracking (fracturing); Crack initiation; Cyclic loads; Differentiating circuits; Digital to analog converters; Failure; Fasteners; Fatigue (materials); Fatigue tests; *13082*. **SP305-5.**
- Shear analysis, nonlinear; Adhesively bonded joints; Composite materials; Composite-over-lay reinforcement; Contour plotting; Cracks, reinforcement of; Cutouts, reinforcement of; Debond analysis, progressive; Finite element analysis; Joints, adhesively bonded; *13607*. **SP305-5.**
- Shear modulus; Single crystals; Young's modulus; Bulk modulus; Compressibility; Elastic constants; Elasticity Lamé constant; Poisson ratio polycrystals; *14871*. **SP305-7.**
- Shear modulus; Single-crystal elastic coefficients; Young's modulus; Bulk modulus; Compressibility; Elastic constant; Debye temperatures; Iron; Iron alloys; Lamé constants; Nickel; Nickel alloys; *J. Phys. Chem. Ref. Data* 2, No. 3, 531-618 (1973). **SP305-6.**
- Shear modulus; Single-crystal elastic coefficients; Young's modulus; Bulk modulus; Compressibility; Copper; Elastic constants; Poisson's ratio; *J. Phys. Chem. Ref. Data* 3, No. 4, 897-936 (1974). **SP305-6.**
- Shear modulus; Soil; Tests; Torsional excitation; Damping; Damping coefficients; *SP444*, pp. III-72-III-83 (Apr. 1976). **SP305-8.**
- Shear modulus; Sound velocity; Titanium alloys; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Poisson's ratio; *14172*. **SP305-6.**
- Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Nickel-chromium-iron alloys; Poisson's ratio; *15225*. **SP305-7.**
- Shear modulus; Sound velocity; Young's modulus; Aluminum alloy; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Nickel steels; Poisson's ratio; *15522*. **SP305-7.**
- Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Nickel-base alloys; Poisson's ratio; *15533*. **SP305-7.**
- Shear modulus; Sound velocity; Young's modulus; Bulk modulus; Compressibility; Copper; Copper alloys; Elastic constants; Poisson ratio; Pulse-echo method; Resonance method; *16505*. **SP305-8.**
- Shear modulus; Sound velocity; Young modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Plutonium; Plutonium alloy; Poisson ratio; *16635*. **SP305-8.**
- Shear modulus; Stainless steel; Antiferromagnetic; Cold-work; Fe-Ni-Cr alloys; Neel temperature; *J.70C3-232*, 207-210 (1966). **SP305.**
- Shear modulus; Standard reference material; Young's modulus; Alumina; Elastic modulus; Resonance frequency; *J.77A No. 4*, 391-394 (1973). **SP305-5.**
- Shear modulus; Standard reference material; Young's modulus; Alumina; Elastic modulus; Resonance frequency; *J.75A No. 3*, 155-162 (1971). **SP305-3.**
- Shear modulus; Theory of elasticity; Bulk modulus; Composite materials; Elastic constants; Filled polymers; Mechanical properties; Particulate composites; *J.78A No. 3*, 355-361 (1974). **SP305-6.**
- Shear modulus; Theory of elasticity; Composite materials; Elastic constants; Filled polymers; Mechanical properties; Particulate composites; *J.79A No. 2*, 419-423 (1975). **SP305-7.**
- Shear modulus; Young's modulus; Aluminum oxide; Corundum; Elastic constants; *J.70A4-403*, 277-280 (1966). **SP305.**
- Shear modulus; Young's modulus; Bulk modulus; Dental amalgam; Elastic constants; Poisson's ratio; Pulse-echo technic; *10339*. **SP305-1.**
- Shear modulus; Young's modulus; Bulk modulus; Composite; Compressibility; Elastic compliance; Elastic stiffness; Piezoelectric oscillator; Poisson's ratio; *15523*. **SP305-7.**
- Shear modulus; Young's modulus; Bulk modulus; Composite materials; Elastic constants; Filled polymers; Mechanical properties; Particulate composites; Poisson's ratio; *16264*. **SP305-8.**
- Shear modulus; Young's modulus; Calcium molybdate; Compressibility; Debye temperature; Elastic constants; *10718*. **SP305-1.**
- Shear modulus; Young's modulus; Yttria; Elastic moduli; Poisson's ratio; Porosity; *10541*. **SP305-1.**
- Shear relaxation; Ultrasonic interferometer; High temperature ultrasonic interferometer; Lock-in amplifier system; Measurements in molten glasses; Phase-lock detection system; *10710*. **SP305-1.**
- Shear relaxation time; Shear viscosity; Simple fluid; Time correlation function; Argon; Bulk viscosity; *9960*. **SP305-1.**
- Shear relaxation time; Time correlation function; Volume viscosity; Corresponding states fluid; Elastic moduli in liquids; Relaxation time for volume viscosity; *10695*. **SP305-1.**
- Shear resistance; Theory of cement hardening; Time of set; Vane-shear apparatus; Cement; Cement mortar; Cement paste; Early strength; False set; Hardening of cement; Hydration; *B5528*. **SP305-2.**
- Shear spectra of relaxation times; Ultrasonic relaxation; Viscous relaxation;  $\text{B}_2\text{O}_3$ ; *10497*. **SP305-1.**

Shear strength; Shear test; Shear walls; Stress distribution; Stresses; Structural engineering; Brick; Failure; Failure theories; Masonry; *NBSIR 75-703. SP305-7.*

Shear strength; Shear wall; Stiffness; Analysis; Compressive strength; Deflection; Design; Flexural strength; Masonry walls; Racking strength; Seismic loading; *NBSIR 74-520. SP305-6.*

Shear strength; Sustained loading; Tensile strength; Adhesive bonding; Aging tests (materials); Composite materials; Glass fibers; Housing system; Laminates; Reinforced plastics; *15624. SP305-7.*

Shear strength; Tests; Web; Beams; Design criteria; Joists; Openings; *14663. SP305-6.*

Shear stress; Torsion; Aluminum alloy; Bending; Fatigue strength; Microcracks; *10735. SP305-1.*

Shear test; Shear walls; Stress distribution; Stresses; Structural engineering; Brick; Failure; Failure theories; Masonry; Shear strength; *NBSIR 75-703. SP305-7.*

Shear test; Shear resistors; Silicon; Silicon on sapphire; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Transistors; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; *SP400-19. SP305-8.*

Shear test; Vacuum and pressure test; Adhesives; Boil test; Bonding; Exterior; Grading; Interior; Moisture content; Overlay; Plywood; *PS1-66. SP305.*

Shear tests; Structural engineering; Web reinforcement; Column; Ductility; Earthquake; Reinforced concrete; *SP444, pp. IV-16-IV-36 (Apr. 1976). SP305-8.*

Shear viscosity; Simple fluid; Time correlation function; Argon; Bulk viscosity; Shear relaxation time; *9960. SP305-1.*

Shear viscosity; Temperature dependence; Viscosity of parahydrogen; Liquid normal hydrogen; Parahydrogen; *9201. SP305.*

Shear viscosity; Thermal conductivity; Van der Waals gas; Volume viscosity; Critical phenomena; Fluctuation and time correlation function; Heat capacity; *10696. SP305-1.*

Shear wall; Stiffness; Analysis; Compressive strength; Deflection; Design; Flexural strength; Masonry walls; Racking strength; Seismic loading; Shear strength; *NBSIR 74-520. SP305-6.*

Shear walls; Stress distribution; Stresses; Structural engineering; Brick; Failure; Failure theories; Masonry; Shear strength; Shear test; *NBSIR 75-703. SP305-7.*

Shear wave; Elastic medium; Engineering seismology; Ground layer; Numerical solution; *SP444, pp. III-1-III-12 (Apr. 1976). SP305-8.*

Shear wave analyzer; Shear wave orientation; Shear wave transducer; Multiwaveguide; *12551. SP305-4.*

Shear wave orientation; Shear wave transducer; Multiwaveguide; Shear wave analyzer; *12551. SP305-4.*

Shear wave transducer; Multiwaveguide; Shear wave analyzer; Shear wave orientation; *12551. SP305-4.*

Shearing flows; Hole pressure; Normal stress; Pressure hole errors; *13894. SP305-6.*

Shearing interferometer; Telescopes; Wavefront shearing interferometer; Aberration of telescopes; Interferometer; *11110. SP305-2.*

Shearing interferometer; Testing of optics; Interferometry; Optical shop testing; *14533. SP305-6.*

Sheathed thermocouples; Tantalum; Temperature measurements; Tungsten-rhenium alloys; Beryllium oxide; Emf drift; *14377. SP305-6.*

Sheathed thermocouples; Tantalum; Temperature measurements; Thermal emf drift; Tungsten-rhenium alloys; Beryllium oxide; Refractory metals; *15797. SP305-8.*

Sheet; Sulfuric acid; Titanium; Tubing; Corrosion; NaCl solution; Passivation; *14516. SP305-6.*

Sheet piles; Soil corrosion; Soils; Steel piles; Underground; Corrosion; H-piles; *11654. SP305-2.*

Sheet piling; Undisturbed soil; Weight loss; Active region; Aerated soil; Corrosion; Disturbed soil; Excavated; Extract; H-piling; Instantaneous corrosion rate; Mill scale; Permafrost region; Pipe piling; Pit depth; Polarization; *Monogr. 12. SP305-4.*

Sheet, plastic; Impact resistance, plastic sheet; Oriented sheet; Plastic sheet; Polystyrene plastic sheet; *PS31-70. SP305-3.*

Sheet polarizers; Spectrophotometry; Transmittance standard; Accuracy; Phase retardation plates; Polarization attenuator; *12660. SP305-4.*

Sheet resistance; Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; Wire bonds; Contact resistance; Die attachment; Dopant profiles; Electric properties; Electronics; *SP400-1. SP305-6.*

Sheet resistance; Silicon; Spreading resistance; Test pattern; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Thick film copper; Voltage contrast mode; Wire bonds; X-ray photoelectron spectroscopy; Boron redistribution; Collector resistor; *SP400-4. SP305-6.*

Sheet resistance; Silicon; Spreading resistance; Contact resistance; Correction formulae; *SP400-10, pp. 27-44. SP305-6.*

Sheet resistors; Silicon; Silicon on sapphire; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Transistors; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; *SP400-19. SP305-8.*

Sheet resistors; Silicon; Test pattern; Test structures; Dopant density; Microelectronics; MOS capacitors; *n-p-n* transistor fabrication; *p-n* junctions; Resistivity; Semiconductor electronics; *SP400-22. SP305-8.*

Sheet resistors; Test patterns; Thermally stimulated current; MOS capacitors; *p-n* junctions; Resistivity of silicon; Semiconductor devices; Semiconductor process control; *SP400-21. SP305-8.*

Sheet steel; Abrasion resistance; Chemical resistance; Porcelain enamel; Sanitary ware; *PS5-66. SP305.*

Sheeting; Agricultural; Composition; Construction; Industrial; Polyethylene; Properties; *PS17-69. SP305-2.*

Sheets; Springs; Upholstered furniture; Upholstery; Bedding; Beds; Blankets; Carpets; Curtains; Drapes; Fabrics; Fibers; Fire; Flames; Flammability; Flammable; Floor coverings; Furnishings; Furniture; Interior furnishings; Mattresses; *TN498-1. SP305-2.*

Sheets; Springs; Wearing apparel; Apparel; Bedding; Beds; Blankets; Carpets; Clothing; Fabrics; Fibers; Fire; Flame; Flammability; Flammable; Floor coverings; Mattresses; Pillows; Cases; Pillows; Rugs; *TN498. SP305-2.*

Shelf-life extension; Sprouting inhibition; Chemical dosimeter; Disinfection; Dosimetry; Dyes; Gamma rays; Insect sterilization; *12193. SP305-3.*

Shell; Stress analysis; Thin wall; Torsion; Tube; Creep; Primary creep; Shear; *J71C3-256, 209-225 (1967). SP305.*

Shell calculations; Solid solutions; Alkali halides; Heats of solution; Ion substitution; Lattice relaxation; Polarization energy; *9300. SP305.*

Shell model; Alkaline earth oxides; Born-Mayer potential; First neighbor interactions; Ionically; Lundquist three-body potential; Second-neighbor interactions; *15398. SP305-7.*

Shell model; S-matrix eigenstates; Nuclear continuum states; Nuclear reactions; Nuclear scattering; Scattering matrix; *9658. SP305-1.*

Shell model; Spurious; Sum rule; Electron scattering; Momentum transfer; Pair correlation; *12043. SP305-3.*

Shell-correlation energy; Symmetry-adapted; Electron affinity  $O, O^{+}$ ; Pair-correlation energy; *12821. SP305-4.*

Shell-model; Structure; Wave function; Correlations; Neutrons; Pairing; Quartetting; *12851. SP305-4.*

- Shells; Soft x-ray spectroscopy; Valence bands; Absorption spectra; Electron transitions; Emission spectra;  $L_{2,3}$  emission spectra; 12583. **SP305-4.**
- Shelter; Durability; Field inspection; Foam and beam; Honeycomb; Impact; Lightweight structures; Military; Reliability; Sandwich panel; *NBSIR 76-1025. SP305-8.*
- Shelter; Shielding; Civil Defense; Engineering method; Fallout; Gamma rays; 12872. **SP305-4.**
- Shewhart, W. A.; Statistical tolerance limits; Wilks, S. S.; Wishart, John; Annals of Mathematical Statistics; Army Experiment Design Conferences; Dodd, E. L.; Educational testing; History of mathematical statistics in the U.S.A.; 15513. **SP305-7.**
- Shield; Two dimensional; Cross section; Sensitivity; *SP425*, pp. 459-463. **SP305-7.**
- Shielded strip line; TEM cell; EMC measurements; Radiation resistance; Rectangular coax; *NBSIR 75-829. SP305-8.*
- Shielded strip line; TEM cell; *NBSIR 76-841. SP305-8.*
- Shielded transformer; Toroidal core; Voltage divider; Voltage ratio; Calibration; Comparator; High permeability core; Inductive voltage divider; Phase angle; R-C network; 10614. **SP305-1.**
- Shielding; Adjoint; Buildup factor; Dosimetry; Gamma-ray transport; Moment methods; *TN748. SP305-5.*
- Shielding; Analysis; Cross sections; Evaluation; Information; Processing; Radiation; *SP425*, pp. 363-366. **SP305-7.**
- Shielding; Carbon; Computer code; Gauss quadrature; Moments; Neutron transport; *TN725. SP305-4.*
- Shielding; Civil Defense; Engineering method; Fallout; Gamma rays; Shelter; 12872. **SP305-4.**
- Shielding; Concrete; Function fitting; Moments; Neutron transport; Reactor shields; 13910. **SP305-6.**
- Shielding; Cross sections; Meeting; Neutrons; Nuclear technology; Reactors; 10749. **SP305-1.**
- Shielding; Erasure, magnetic media; Erasure, permanent magnet; Erasure, shielding against; Erasure, signal loss due to; Magnet fields, erasure with; Magnetic media, computer; Magnetic media, information damage; Permanent magnets; Permanent magnet, erasure with; *TN735. SP305-4.*
- Shielding; Single scatter; Air-scatter; Angular distribution; Energy spectrum; Gamma rays; Neutrons; Point source; 9308. **SP305.**
- Shielding; Single scatter; Air-scatter; Buildup factor; Gamma rays; Image source; Interface; 10546. **SP305-1.**
- Shielding; SQUID; Superconducting shield; Superconductivity; Cryogenic resistors; Current comparators; Low temperature; 15597. **SP305-7.**
- Shielding; Superconductivity; Transformer; Current comparator; Current ratio; 14558. **SP305-6.**
- Shielding; Thermal reactor testing; Benchmark experiments; Dosimetry; Fast reader testing; Fission products; *SP425*, pp. 834-841. **SP305-7.**
- Shielding; Transport; Angular distributions; Energy spectrum; Gamma rays; Invariant imbedding; 10786. **SP305-1.**
- Shielding; Truncation errors; Biorthogonal functions; Gamma rays; Moments methods; Neutrons; 12863. **SP305-4.**
- Shielding; Weapons radiation; Benchmark problems; Dose distributions; Moments method; Neutron penetration; *TN745. SP305-5.*
- Shielding; Computer code; Gamma rays; Gamma ray transport; Gauss quadrature; Moments; *TN766. SP305-5.*
- Shielding,  $^{238}\text{U}(p,xn)$ ,  $E_p = 800$  MeV; Analysis by Monte Carlo; Angular dependence; Deep penetration of neutrons in Fe + H shield; Measured neutron spectra; *SP425*, pp. 476-479. **SP305-7.**
- Shift; Core level; Implant; Noble metals; Rare gas; 16080. **SP305-8.**
- Shift; Stark broadening; Width; Experimental; Neutral atom; Review; *JPCRD 5*, No. 2, 209-258 (1976). **SP305-8.**
- Shifting operators; Slit correction; Slit weighting-function; Small-angle x-ray scattering; Strong numerical instability; Conditions for convergence of solutions; Integral equation of first kind; *J.75B*, Nos. 3 and 4, 187-207 (1971). **SP305-3.**
- Shifts; Stabilized arc; Stark broadening; Asymmetries; Hydrogen lines; Line profiles; 12934. **SP305-4.**
- Shingles; Storm damage; Asphalt shingles; Built-up roofing; Hail; Roofing; *B5523. SP305-1.*
- Shingles; Wood fibers; Asphalt; Asplund; Felt; Mineral-surfaced roll roofing; *TN477. SP305-1.*
- Shipboard; 77 K refrigerator; Cryogenics; Infrared detector; Low capacity; Reliability; 14305. **SP305-6.**
- Shipboard; 77 K refrigerator; Cryogenics; Infrared detector; Low capacity; Reliability; *NBSIR 74-372. SP305-7.*
- Shipboard atmospheric sampling; Analytical blanks; Atmospheric sampling; Coastal sampling; Contamination of atmospheric particulate samples; Sample handling; *SP422*, pp. 377-388 (Aug. 1976). **SP305-8.**
- Shipping; Stability; Standard reference materials; Accelerated testing; Clinical; Hazards; Legal problem packaging; 16110. **SP305-8.**
- Shipping and boating industries; Standards laboratories; Telephone industry and specialized carriers; Time and frequency; Time scales; Users of NBS radio broadcasts; Atomic frequency standards; Aviation industry; Electric power industry; *SP445-1. SP305-8.*
- Ships; Steel; Welding; Alloying; Inclusions; Low temperature; Rolling; 16145. **SP305-8.**
- Shirley Highway; Transportation planning; Bus-on-freeway operations; Choice and captive riders; Cost allocation formula; Incremental costs and revenues; Reverse commute bus service; *NBSIR 74-624. SP305-7.*
- Shirley Highway; Transportation planning; Bus-on-freeway operations; Commuter surveys; Mode choice decisions; Park-and-ride; *NBSIR 75-689. SP305-7.*
- Shirley Highway bus project; Superconductive fixed-point device; Electrical power; Insulation of buildings; Inventor; Kitchen range standards; *TNB 57*, No. 4, 77-100 (1973). **SP305-5.**
- Shirley Highway Corridor in Northern Virginia; Urban Mass Transit Demonstration Project; Bus fringe parking; Bus priority lanes, bus priority lanes in District of Columbia; Bus transit operation; Exclusive bus lanes, express-bus-on freeway technology; 13710. **SP305-5.**
- Shirley Highway Corridor in Northern Virginia; Urban mass transit demonstration project; Bus fringe parking; Bus priority lanes; Bus priority lanes in District of Columbia; Bus transit operation; Exclusive bus lanes; Express-bus-on-freeway technology; 13734. **SP305-5.**
- Shishkebab; Sonicated solution; Spinning; Stirred solution; Crystallization; Cylindrite; Drawing of swollen polymer solid; Epiaxial overgrowth; Extrusion; Hard elastomer; Nucleation; Oriented melt; Rheological unites; Row nucleus; 16274. **SP305-8.**
- Shock compression; Shock propagation; Shock wave; Crystal; Cubic lattice; Hooke's law forces; Lattice dynamics; Morse potential function; Numerical computation; 10104. **SP305-1.**
- Shock compression; Shock wave; Thermal relaxation; Equation of state of solids; Lattice dynamics; *SP326*, pp. 105-122. **SP305-3.**
- Shock force; Space simulation; Testing; Volatile products; Absorption; Condensation; Contamination control; Evaluation; Far infrared; Fluid dynamic force; Microorganisms; Optical properties; Planetary quarantine; Polymers; *SP336*, pp. 51-77. **SP305-3.**
- Shock generator; Accelerometer; Calibration; FFT; Fourier transform; Fourier transform frequency; Mechanical shock; 16128. **SP305-8.**

- Shock measuring; Single-sideband; Accelerometer; Calibration; Doppler; Interferometer; Laser; *J73C Nos. 3 and 4, 75-78 (1969)*. SP305-1.
- Shock propagation; Shock wave; Crystal; Cubic lattice; Hooke's law forces; Lattice dynamics; Morse potential function; Numerical computation; Shock compression; *10104*. SP305-1.
- Shock sensitivity; Stability of value; Ten picofarad capacitor; Transportable ten picofarad capacitor; Unit of capacitance; Volume dependence; Capacitance standards; Fused silica dielectric; Picofarad capacitor; *9653*. SP305-1.
- Shock tube; Tape; Thermal radiant-energy response; Thermal transient response; Transducers; Zero shift; Coatings; Dynamic; Dynamic response; Pressure transducer; Protective coatings; *NBSIR 76-1144*. SP305-8.
- Shock tube; *t*-butyl radical; Thermal decomposition; 2,2,3-trimethylpentane; Bond energy; Cyclohexyl radical; 3,4-dimethylhexane; Heats of formation; *n*-propyl radical; *s*-butyl radical; *12562*. SP305-4.
- Shock tube; *t*-butyl radical decyclization; 2,2,3-trimethylbutane; Bond energy; Cyclohexane; Decomposition; Gas phase; Isopropyl bromide; *12831*. SP305-4.
- Shock tube; Thermal decomposition; 2,3-dimethylbutanol-2; 3,3-dimethylbutanol-2; Alcohols; Heats of formation; Hydroxy-alkyl radicals; *15904*. SP305-8.
- Shock tube; Thermal transient; Transducer; Acceleration; Calibrator; Dual centrifuge; Dynamic; Inter-agency Transducer Project; Life-cycling; Pressure; *10483*. SP305-1.
- Shock tube; 2,4-dimethylhexene-1; Bond strength; Combination rate; Decomposition; Isobutyl; *14044*. SP305-6.
- Shock tube; 2,4-dimethylpentene-2; 1,1,2,2-tetramethylcyclopropane; Cyclohexene; Decomposition; Decyclization; *14196*. SP305-6.
- Shock tubes; *t*-butyl radicals; 2,2,3-trimethylbutane; Bond energies; Decomposition; Hexamethylethane; Isopropyl radical; Methyl radicals; Neopentane; Pyrolysis; *10106*. SP305-1.
- Shock wave; Crystal; Cubic lattice; Hooke's law forces; Lattice dynamics; Morse potential function; Numerical computation; Shock compression; Shock propagation; *10104*. SP305-1.
- Shock wave; Solar wind; Earth magnetic field; Earth tail; Magnetosphere; Plasma theory; *SP336*, p. 297. SP305-3.
- Shock wave; Stress wave; Temperature wave; Thermal diffusivity; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Interatomic potential; Molecular dynamics; Second sound; *16138*. SP305-8.
- Shock wave; Thermal relaxation; Equation of state of solids; Lattice dynamics; Shock compression; *SP326*, pp. 105-122. SP305-3.
- Shock wave propagation; Thermal oscillations; Two-dimensional lattice dynamics; Energy calculations; Grüneisen parameter; Lattice stability; *11165*. SP305-2.
- Shock wave technique; Temperature; Accurate measurement; Equation-of-state; Fixed points; High pressure; High-pressure equipment; Instrumentation; Pressure scale; *SP326*. SP305-3.
- Shock wave techniques; Thermodynamic measurements; Thermodynamic properties; Experimental thermodynamics; High-speed thermodynamic measurements; *10831*. SP305-1.
- Shock waves; Blast waves; Computer simulation; Interatomic potentials; Lattice dynamics; Molecular dynamics; *15434*. SP305-7.
- Shock waves; Cepheids; Extended atmospheres; Hydrodynamics; *SP332*, pp. 300-319. SP305-2.
- Shockley partials; Dislocation geometry; Stacking faults; *SP317*, pp. 47-55. SP305-3.
- Shockley theory of  $\epsilon$ ; Silicon radiation detectors; Trapping; Energy, required to create an electron-hole pair; Low temperature; Recombination; *9299*. SP305.
- Shocks; Two-phase flow; Choking; Hydrogen; Nitrogen; *TN359*. SP305-1.
- Shockwave; Thermal relaxation; Three dimensions; Crystal; solid; Iron; Molecular dynamics; Second sound; *134*. SP305-5.
- Shoplifting; Surveillance; Surveillance cameras; Cameras; I mand cameras; Employee theft; Fixed surveillance; Motion picture surveillance; Robbery; Sequence cameras; *149*. SP305-7.
- Shoplifting; Theft; Burglary; Consultants; Crimes of opportunity; Directory, (security); Investigations; Law enforcement Resources; Security; *16369*. SP305-8.
- Shoreline management; Shoreline protection; Beach erosion control; Corps of Engineers; Cost sharing; Efficiency; Hurricane protection; *16059*. SP305-8.
- Shoreline protection; Beach erosion control; Cost sharing; Economics; Efficiency; Equity; Incentives; *NBSIR 73-25*. SP305-6.
- Shoreline protection; Beach erosion control; Corps of Engineers; Cost sharing; Efficiency; Hurricane protection; Shoreline management; *16059*. SP305-8.
- Shoring; Standards; Building; Codes; Concrete; Construction; Falsework; Formwork; Loads; Reshoring; Safety; *B58*. SP305-8.
- Short- and long-term frequency stability; Atomic frequency standards; Power spectral density; *9534*. SP305-1.
- Short arm; Two-knife; Arrestment; Balance; Beam; Buoyar Case; Constant-load; Equilibrium; Knife; One-pan; *J76 Nos. 1 and 2, 1-10 (1972)*. SP305-4.
- Short circuit; Standards; Automatic; Broad frequency; Equations; Network analyzers; Open circuit reflection coefficient; *16510*. SP305-8.
- Short circuited waveguide; Cavity resonator model; Ferromagnetic resonance measurement; Nonresonant system; *1001*. SP305-1.
- Short line mileage; Waybill file; Programmer's documentation; *16241*. SP305-8.
- Short lived molecule; Spectrum; Thioformaldehyde; High resolution; Infrared; Rotational constants; *12500*. SP305-4.
- Short pulse; Transient beam-loading; Waveguide; Electron Energy loss; Linear accelerator; *11369*. SP305-2.
- Short range behavior; Structure factor; Superfluid transition; Ground state wave function; Liquid  $^4\text{He}$ ; Neutron diffraction data; Pair correlation function; *J77A No. 6, 725-731 (1973)*. SP305-5.
- Short range correlations; Cluster expansion; High momentum components; Jastrow wave function; Photonic nuclear effect; Quasideuteron effect; *12686*. SP305-4.
- Short range correlations; Correlated pairs; High momentum components; Meson nucleus interactions; Nuclear wave function;  $\pi$  mesons; *10875*. SP305-2.
- Short range correlations; Electron scattering; Hydrodynamic model; Isospin mixing; Nuclear charge distribution; Nuclear structure; *12854*. SP305-5.
- Short wavelength; Collective excitations; Liquid rubidium; Neutron scattering; Propagating modes; Scattering function; *15207*. SP305-7.
- Short-chain branching; Branching; Limiting viscosity numbers; Long-chain branching; Nuclear magnetic resonance; Polyethylene; *16244*. SP305-8.
- Short-circuited ring; Torsion balance; Ammeter; Electrodynamicmeter; High frequency current; *11308*. SP305-2.
- Shorted termination; Waveguide; Microwave; Reflection coefficient; Return loss; Sliding short; *TN602*. SP305-3.
- Shortest path; Double-sweep method; Graph;  $k$  shortest paths; Network; Network algorithms; *J78B No. 3, 139-165 (1974)*. SP305-6.
- Shortest path studies; Air pollutants; Automation technology; Computer software; Computer standards; Computer utilization; Electron spectroscopy; Humidity facility; International trade; *DIM/NBS 57, No. 12, 277-300 (1973)*. SP305-5.



- shortest paths; Iterative methods; K best paths; Linear equations; Network algorithms; Networks; 16389. SP305-8.
- shortest-path; Transportation; Algorithm; Graph; Network; Optimization; 10552. SP305-1.
- shortest-paths; Trees; Algorithms; Networks; Paths; TN772. SP305-5.
- shortite; Single-crystal x-ray diffraction; Calcium sodium carbonate; Crystal structure; J.75A No. 2, 129-135 (1971). SP305-3.
- short-line miling system; Waybills; Railroad freight movements; 16241. SP305-8.
- short-lived molecules; Chemical monitoring and analysis; Double resonance; Microwave instrumentation; Microwave spectroscopy; Radio astronomy; 16400. SP305-8.
- short-pulse; Angular scattering law; Meter wavelength; Radar echoes; 10196. SP305-1.
- short-range order; Magnetism; Molecular field theory; 9986. SP305-1.
- short-range order; Magnetism; Molecular field theory; 11083. SP305-2.
- short-range-order parameters; Spectral density of states;  $t$ -matrices; Alloys; Brass; Delta-function potential; Disordered systems; Green's functions; Korringa-Kohn Rostoker (KKR); "muffin-tin" potential; SP323, pp. 509-514. SP305-4.
- short-term stability; SI Units; TAI; Television T/F dissemination; Thallium beam standards; Time; Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; Time scales; "unified standard"; URSI; USA standard time zones; UTC (NBS); Monogr. 140. SP305-6.
- short-term stability; Spectral density of frequency fluctuations; Time domain stability; Crystal controlled oscillator; Fast linewidth; Quartz crystal resonators; 15673. SP305-7.
- Short-term stability; Spectral density of frequency fluctuations; Time domain stability; Crystal controlled oscillator; Fast linewidth; Quartz crystal resonators; 15687. SP305-7.
- short-term tests; Weathering factors; Accelerated aging; Building components and materials; Climatological data; Durability; Environmental factors; Long-term tests; TN838. SP305-6.
- Shrink film, plastic; Balanced and unbalanced film; Film, plastic; Orientation release stress; Plastic heat-shrinkable film; Retraction ratio; PS29-70. SP305-3.
- Shrinkage; Statistical evaluation; Strength; Sulfate expansion; Trace elements; Alkalies; Concrete; Durability; Heat of hydration; Portland cements; 11863. SP305-3.
- Shrinkage; Strain; Stress; Tensile; Adhesion; Bonding; Dental; Filling materials; Hardening; 9433. SP305.
- Shrinkage; Strength; Structural concrete; Aggregate grading; Cement content; Concrete construction; Creep; Durability; Economy; Gap-grading; SP361, Vol. 1, pp. 711-718. SP305-4.
- Shrinkage; Theorem; Asymptotics; Elastic; Oscillations; Pomeranchuk; 16249. SP305-8.
- Shrinkage; Variable prestress; Creep; Loss of prestress; Prestressed concrete; Relaxation; B513. SP305-1.
- Shrinkage of concrete; Trace elements; Cement composition; Expansion-shrinkage ratios; Portland cement concrete; B515, Sec 10. SP305-1.
- Shrinkage of portland cements; Trace elements; Chemical composition of portland cements; Cracking of portland cements; Cracking resistance of cements; Portland cement; B515, Sec 9. SP305-1.
- Shubnikov-de Haas effect; Strontium titanate; Band structure; High magnetic field; Oscillatory magnetoresistance; 9725. SP305-1.
- SI; Standards; U.S. Metric Study; Engineering standards; International standards; International System of Units; Metric conversion; Metric system; Metrication; Metrication and engineering standards; SP345-11. SP305-3.
- SI; Système International des Unités; Units of Measurement; General Conference of Weights and Measures; International Committee of Weights and Measures; International System of Units; SP330, 1972 Edition. SP305-4.
- SI; Système International des Unités; Units of measurement; General conference of weights and measures; International Committee of Weights and Measures; International System of Units; SP330. SP305-3.
- SI; Systems of units; Units of measurement; International System of Units; Measurement units; Metric units; 15481. SP305-7.
- SI; Timetable for metrication; Conversion to metric; Government metrication; Metrication; Metric system; 16231. SP305-8.
- SI; Treaty of the Metre; Base units; Centennial volume; History of SI; International Bureau of Weights and Measures; International System of Units; Measurements; SP420. SP305-7.
- Si; Tungsten wires;  $\text{CaF}_2$ ; Density; Measurement technique; J.78A No. 1, 9-13 (1974). SP305-6.
- SI; Units; Metric system; Physical constants; 9913. SP305-1.
- SI; U.S. Metric Study; Commercial weights and measures; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SP345-3. SP305-3.
- SI; U.S. Metric Study; Consumers; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SP345-7. SP305-3.
- SI; U.S. Metric Study; Department of Defense; International System of Units; Metric conversion; Metric system; Metrication; Metrication, costs and benefits of; Metrication, impact of; SP345-9. SP305-3.
- SI; U.S. Metric Study; Education; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SP345-6. SP305-3.
- SI; U.S. Metric Study; Federal Government; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SP345-2. SP305-3.
- SI; U.S. Metric Study; Foreign trade; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SP345-8. SP305-3.
- SI; U.S. Metric Study; International System of Units; Manufacturing industry; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Metric conversion; Metric system; Metric usage; SP345-4. SP305-3.
- SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Nonmanufacturing businesses; SP345-5. SP305-3.
- SI; U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; SP345-12. SP305-3.
- SI; Weights and measures; International system of units; Measurement systems; Metric system; Modernized metric system; SP304, Revised October 1972. SP305-4.
- SI; Weights and measures; International system of units; Measurement systems; Metric system; Modernized metric system; SP304A, Revised October 1972. SP305-4.
- SI; Weights and measures; International system of units; Measurement system; Metric system; Modernized metric system; SP304A. SP305-7.

- SI; Weights and measures; Metric system; *CIS7. SP305-5.*
- SI basic unit; Candela; Lumen; Luminous flux; Luminous intensity; Photometry; *16397. SP305-8.*
- SI iv; Spectra; Stellar; Ultraviolet; Absorption; B-stars; C iv; O-stars; *16271. SP305-8.*
- SI second; Time scale accuracy algorithm; Time scale stability; Coordinate time scales; Frequency calibration; International frequency comparisons; Optimum frequency estimate; Primary frequency standards; Relativity; *15672. SP305-7.*
- SI symbols; SI units; Metric; *16172. SP305-8.*
- SI units; Accommodation; Adaptation; Conversion; Customary units (U.S.); Economic costs; Interchangeability; International cooperation; Metric system; *11246. SP305-2.*
- SI units; English measurement system; Measurement systems; Metric system; *SP304. SP305-1.*
- SI units; Gyromagnetic ratio; Measurement units; Physical constants; *13311. SP305-5.*
- SI units; Gyromagnetic ratio; Measurement units; Physical constants; *16395. SP305-8.*
- SI units; Length; Mass; National Bureau of Standards; Reference methods; *15678. SP305-7.*
- SI units; Metric; SI symbols; *16172. SP305-8.*
- SI units; Standards; ADP standards; Computers; Data processing. Federal Information Processing Standards; Metric conversion; *FIPS PUB 34. SP305-7.*
- SI Units; TAl; Television T/F dissemination; Thallium beam standards; Time; Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; Time scales; "unified standard"; URSL; USA standard time zones; UTC (NBS); UTC (USNO); *Monogr. 140. SP305-6.*
- SI units; Units of measurement; Ancient measures; History; Measurement; *11456. SP305-2.*
- SI units in illuminating engineering; Exitance; Illumination; Luminance; Lux; Metric units; Nit; *10295. SP305-1.*
- SiCl<sub>4</sub> free radical; Ultraviolet spectrum; Dichlorosilane; Dichlorosilane-d<sub>2</sub>; Force constants; Infrared spectrum; Matrix isolation; Photolysis; *11232. SP305-2.*
- SiCl<sub>3</sub>; Trichlorosilane; Ultraviolet spectrum; Force constants; Free radical; Infrared spectrum; Matrix isolation; Photolysis; *11003. SP305-2.*
- Sidearm power detector; Directional coupler; Power detectors; *16567. SP305-8.*
- Sidebands; Signal stability; Spectral density; Amplitude fluctuations; Cross-spectral density; Frequency domain; Frequency noise; Modulation noise; Noise specification and measurement; Oscillator noise; Phase noise; Radio frequency power spectral density; *Script 2(f); 14028. SP305-6.*
- Siding; Structural engineering; Wind; Wind damage; Wind engineering; Building codes; Design standards; Masonry construction; Roofs; *TN909. SP305-8.*
- Siding, hardboard; Hardboard siding; *PS60-73. SP305-6.*
- Siding, poly (vinyl chloride); Weathering of plastic siding; Building materials; Flammability of outdoor siding; Plastic material; Poly (vinyl chloride) siding; *PS55-72. SP305-4.*
- Siemens-Halske AEG; Wandel & Goltermann; Automatic noise-level recorders; Calibration of carrier-frequency filters; Microwave transmission lines; *SP335, pp. 125-127. SP305-3.*
- Sieve; Silica; Sinks; Abrasives; Bathtubs; Cleansers; Detergents; Particle; Plastic; Plumbing; Porcelain; *10135. SP305-1.*
- Sieve; Standard sieve; Abrasive grain; Accumulation curve; Coated abrasive products; Grain, abrasive; Micron; Overgrade; Sedimentation; *PS8-67. SP305.*
- Sievert function; Biorthogonal polynomials; Gamma-ray transport; Moment method; Neutron transport; Polynomial truncation errors; *J.75B Nos. 1 and 2, 1-16 (1971). SP305-3.*
- SiF<sub>2</sub>; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Difluorosilane; Free radical; HSiF<sub>3</sub>; Infrared spectrum; Matrix isolation; *11233. SP305-2.*
- SiF<sub>3</sub> free radical; Thermodynamic properties; Trifluorosilane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Force constants; Infrared spectrum; Matrix isolation; *11234. SP305-2.*
- SiF<sub>4</sub>; Band contour; Coriolis constant; Force field; Infrared; Isotopic shift; Low temperature; *J.72A No. 3, 247-248 (1968). SP305-1.*
- SiF<sub>4</sub>; Silicon; Solvent; Spin coupling constants; Fluorine; Fluorosilanes; Nuclear magnetic resonance; *9648. SP305-1.*
- Sigma constants in ethanol-water; Substituted benzoic acid; Allyl- and propenylbenzoic acids; Change of pK with dielectric constant; Hammett sigma constants; Ionization constant pK values in ethanol-water; *J.71A5-468, 379-384 (1968). SP305.*
- Sigma phases; Transition metals; A15-type phase; Atom packing; Beta-tungsten phase; Electronic structure; Order-order transformation; Ordering of atoms; Phase stability; *10498. SP305-1.*
- Sign stable; Sign symmetric; Stability; Tridiagonal; Diagonally dominant; Diagonal matrix; D-stability; Gersgorin's theorem; Lyapunov's theorem; M-matrix; Oscillatory; Positive definite; Principal minor; Routh-Hurwitz conditions; *14782. SP305-7.*
- Sign symmetric; Stability; Tridiagonal; Diagonally dominant; Diagonal matrix; D-stability; Gersgorin's theorem; Lyapunov's theorem; M-matrix; Oscillatory; Positive definite; Principal minor; Routh-Hurwitz conditions; Sign stable; *14782. SP305-7.*
- Sign test; Statistics; Camouflage; Design of experiment; No responses; Paired comparisons; *14042. SP305-6.*
- Signal amplitude, dropouts; Dropouts, cassette tapes; Dropout computer magnetic tapes; Dropouts, instrumentation magnetic tapes; Dropouts, measurement system; Magnetic storage media; *TN739. SP305-4.*
- Signal averaging; Frequency-sweep; Injection-locking; Noise; Nuclear induction; *12875. SP305-4.*
- Signal colors; Signal standards; Spectral transmittance of glass filters; Traffic signals; Aircraft signals; Color standards; Filter permanence; Limit filters; Railroad signals; *TN564. SP305-3.*
- Signal conditioning; Systems; Time domain; Data conversion; Dynamic measurements; Electrical measurements; Electron instrumentation; *TN865. SP305-7.*
- Signal differentiation; Signal processing; Y-modulation; Black level suppression; Nonlinear amplification; Scanning electron microscope; *15425. SP305-7.*
- Signal differentiation; Specimen current images; Channellir patterns; Iron; Lunar samples; Magnetic contrast; Scanning electron microscope; *14613. SP305-6.*
- Signal extraction ratio; Operational amplifier; Op amp; Operational rectifier; Phase-sensitive detector; *12412. SP305-4.*
- Signal insertion; Vibration; Accelerometer; Calibration; Low frequency; *NBSIR 74-597. SP305-7.*
- Signal level calibration; Standard reference materials; Unrecorded reference; Average signal peak level; Computer amplitude reference; Magnetic tape; Master standard; Saturation curves; Secondary standard; *SP260-29. SP305-3.*
- Signal level calibration; Standard reference materials; Unrecorded reference; Average peak signal level; Computer amplitude reference; Magnetic tape; Master standard; Saturation curves; Secondary standard; *SP260-18. SP305-1.*
- Signal lighting; Critical distance; Illumination; Light projector; Photometric distance; Photometry; *9682. SP305-1.*
- Signal lights; Colors; Lights; *Mono. 75. SP305.*
- Signal lights; Vision; Color discrimination; *11208. SP305-2.*
- Signal noise ratio; Statistical properties; Time intervals; Noise signal; Photomultipliers; *9232. SP305.*
- Signal processing; Contrast; Electron beam instrumentation; Electron probe microanalyzer; Instrumental development; Scanning electron microscope; *15249. SP305-7.*

- Signal processing; Scanning electron microscope; SEM contrast formation; SEM image defects; SEM image formation; SEM image quality; *15250. SP305-7.*
- Signal processing; Spectral resolution; Statistics; Analytical chemistry; Curve fitting; Data reduction; Feature selection; Multivariate analysis; Optimization techniques; Pattern recognition; *15964. SP305-8.*
- Signal processing; Standards; Teletypewriters; Coding; Interfaces; Modems; *NBS-GCR-74-30. SP305-8.*
- Signal processing; Y-modulation; Black level suppression; Non-linear amplification; Scanning electron microscope; Signal differentiation; *15425. SP305-7.*
- Signal processor; Computer; Detector-ray; Discriminator; Emitter-couple; Integrated circuit; *15511. SP305-7.*
- Signal stability; Spectral density; Amplitude fluctuations; Cross-spectral density; Frequency domain; Frequency noise; Modulation noise; Noise specification and measurement; Oscillator noise; Phase noise; Radio frequency power spectral density; *Script 2(1); 14028. SP305-6.*
- Signal standards; Spectral transmittance of glass filters; Traffic signals; Aircraft signals; Color standards; Filter permanence; Limit filters; Railroad signals; Signal colors; *TN564. SP305-3.*
- Signal statistics; Applied mathematics; Bessel functions; Complete elliptic integrals; Engineering; Infinite integrals; Modified Bessel functions; Physics; *J.78B No. 3, 113-135 (1974). SP305-6.*
- Signal statistics; Trigonometric functions; Bessel functions; Complete elliptic integrals; Hyperbolic function; Infinite integrals; Modified Bessel functions; Noise theory; *J.79B Nos. 3 and 4, 137-170 (1975). SP305-7.*
- Signal-to-noise ratio; Throughput; Instrument; Polarimeter; Polarimeter quartz; *13619. SP305-5.*
- Signature analysis; Unbalance; Vibration; Diesel-electric sets; Gears; Looseness; *NBS-GCR-74-22. SP305-8.*
- Signature analysis; Vibration; Bearings; Diagnostics; Gears; Reliability; *SP336, pp. 407-448. SP305-3.*
- Significance level; Statistical tests; Efficiency of tests; Median significance level; *11345. SP305-2.*
- Significance tests; Standards; Statistics; Acceptance tests; Confidence intervals; Criminalistics; Errors; Goodness of fit; Normal distribution; *15279. SP305-7.*
- Sign-symmetry; Spectrum; Positive stable matrix; *J.78B No. 1, 1-2 (1974). SP305-6.*
- SiH; SiH<sub>2</sub>; SiH<sub>3</sub>; Silane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Disilane; Free radical; Infrared spectrum; Matrix isolation; Si<sub>2</sub>; *11647. SP305-2.*
- SiH<sub>2</sub>; SiH<sub>3</sub>; Silane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Disilane; Free radical; Infrared spectrum; Matrix isolation; Si<sub>2</sub>; SiH; *11647. SP305-2.*
- SiH<sub>3</sub>; Silane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Disilane; Free radical; Infrared spectrum; Matrix isolation; Si<sub>2</sub>; SiH; SiH<sub>2</sub>; *11647. SP305-2.*
- Silacyclobutane; Vibrational potential functions; Vibration-rotation interaction; Dipole moment; Molecular structure; Ring puckering vibration; Rotational spectrum; *12932. SP305-4.*
- Silacyclopentane; Small-ring molecule; Stark effect; Dipole moment; Microwave spectrum; Molecular structure; *16046. SP305-8.*
- Silane; Charge transfer; Franck-Condon factors; Ion-molecule reactions; Methane; Rare gas ions; Rate constants; *14839. SP305-7.*
- Silane; Tantalum; Zirconium; Aluminum; Composites; Coupling agents gold; Mercaptan; Methacrylates; Polymers; Resin; *13620. SP305-5.*
- Silane; Teeth; Bonding; Coupling agent; Denture; Plastic; Porcelain adhesion; Resin; *9494. SP305.*
- Silane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Disilane; Free radical; Infrared spectrum; Matrix isolation; Si<sub>2</sub>; SiH; SiH<sub>2</sub>; SiH<sub>3</sub>; *11647. SP305-2.*
- Silane bonding; Composites; Denture base materials; Dentures; Dimensional stability; Foreign bodies; Prosthetics; Radiopacity; *12310. SP305-3.*
- Silane coupling agent; Silicate filler; Abrasion resistance; BIS-GMA; Coefficient of thermal expansion; Composite resin; Compressive strength; *14479. SP305-6.*
- Silane coupling agents; Stress-strain properties; Adhesion; Composite materials; Epoxy polymer; *12987. SP305-4.*
- Silica; Silicon dioxide; *11616. SP305-2.*
- Silica; Sinks; Abrasives; Bathtubs; Cleaners; Detergents; Particle; Plastic; Plumbing; Porcelain; Sieve; *10135. SP305-1.*
- Silica; X-ray opacity; Barium glass; Dental composites; Dental reinforcements; Physical properties; Resins; *13674. SP305-5.*
- Silica flux; Single crystals; Strontium titanate; Flux growth; High temperature microscopy; *11099. SP305-2.*
- Silica gel; Silicate cements, dental; Silicate cements, mechanism of hardening, microstructure of, chemical nature; Silicate cements, susceptibility to acid attack; Aluminum phosphate, amorphous; Dental materials; Dental silicate cements; *SP354, pp. 85-92. SP305-4.*
- Silica glass; Structure of glass; Vitron theory; Binary borates; Binary silicates; Born glass; Glass; Homogenization of glass melts; Immiscible glass melts; Immiscibility gaps; *J.77A No. 2, 259-272 (1973). SP305-5.*
- Silicate analysis; Accuracy; Analytical bias; Reference samples; *SP422, pp. 79-89 (Aug. 1976). SP305-8.*
- Silicate cement; Turbine handpiece; Amalgam; Composite materials; Dental gold alloys; Dental research; Panoramic x ray; *16212. SP305-8.*
- Silicate cements; Solubility; Clinical research; Composites; Color stability; Dental materials; Reinforced resins; *10848. SP305-1.*
- Silicate cements, dental; Silicate cements, mechanism of hardening, microstructure of, chemical nature; Silicate cements, susceptibility to acid attack; Aluminum phosphate, amorphous; Dental materials; Dental silicate cements; *SP354, pp. 85-92. SP305-4.*
- Silicate cements, mechanism of hardening, microstructure of, chemical nature; Silicate cements, susceptibility to acid attack; Aluminum phosphate, amorphous; Dental materials; Dental silicate cements; Electron probe microanalysis; *SP354, pp. 85-92. SP305-4.*
- Silicate cements, susceptibility to acid attack; Aluminum phosphate, amorphous; Dental materials; Dental silicate cements; Silica gel; Silicate cements, dental; *SP354, pp. 85-92. SP305-4.*
- Silicate filler; Abrasion resistance; BIS-GMA; Coefficient of thermal expansion; Composite resin; Compressive strength; Silane coupling agent; *14479. SP305-6.*
- Silicate gels; Silicate synthesis; X-ray powder data; Akermanite; Crystal chemistry; Crystal growth; Cupric silicate; Flux growth; Ion polyhedron distortion; Melilitite; Mössbauer spectroscopy; *J.73A No. 1, 69-74 (1969). SP305-1.*
- Silicate glass standard materials; Standard reference materials; Thallium; Thorium; Uranium; Isotope dilution; Lead; Mass spectrometry; *13313. SP305-5.*
- Silicate glasses; Europium; Fluorescence; Lifetimes; Luminescence; Nonradiative rates; Oscillator strengths; Quantum efficiencies; Radiative rates; Rare earths; *14276. SP305-6.*
- Silicate glasses; Fused silica; Infrared absorption; Infrared reflection; Optical constants; Oxide glasses; Phosphate glass; *9635. SP305-1.*
- Silicate substructures; Ternary glasses; Barium glasses; Barium silicates; Glass properties; Glass property factors; Oxide glasses; *Monogr. 135. SP305-5.*
- Silicate synthesis; X-ray powder data; Akermanite; Crystal chemistry; Crystal growth; Cupric silicate; Flux growth; Ion

- polyhedron distortion; Melilite; Mössbauer spectroscopy; Silicate gels; *J73A No. 1, 69-74 (1969). SP305-1.*
- Silicates; Borates; Glassformers; Immiscibility; Liquid immiscibility; Modifiers, network; Oxide systems; *9475. SP305.*
- Silicides; Carbides; Chemical bonding; Defect structures; Interstitial compounds; Ordering; *SP364, pp. 487-504. SP305-4.*
- Silicides and germanides; Ternary  $Ni_2In$ -related phases;  $TiNiSi$ ;  $Fe_2P$  and  $Mn_3Si_5$ ; Metal-metal bonding; Metal-site occupancies;  $Ni_2In$ ; Ordered ternary silicides and germanides; *SP364, pp. 613-622. SP305-4.*
- Silicon; Absolute ratios; Atomic weight; Isotopic abundance; *J79A No. 6, 727-735 (1975). SP305-7.*
- Silicon; Absorption coefficient; Infrared absorption; Germanium; Methods of measurement; Oxygen in germanium; Oxygen in silicon; *TN529. SP305-2.*
- Silicon; ASTM Committee F-1; Electronics; Four-probe method; Resistivity; Semiconductors; *NBSIR 74-496. SP305-6.*
- Silicon; ASTM standards; Integrated circuits; Microelectronics; Semiconductor devices; Semiconductor materials; Semiconductor process control; *11869. SP305-3.*
- Silicon; Automation; Electronics; Integrated circuits; Measurement technology; Semiconductor devices; Semiconductor process control; *NBS-GCR-76-64. SP305-8.*
- Silicon; Avogadro number; Crystal repeat distance; Density; Isotopic abundance; *15294. SP305-7.*
- Silicon; Band gap; Band structure; Electronic structure; Energy bands; Optical properties; *15705. SP305-7.*
- Silicon; BASIC; Capacitance-voltage measurements; Computer programs; Dopant profiles; Error function; Gaussian diffusion; Plotting, computer; Semiconductors; *SP400-11. SP305-7.*
- Silicon; Carrier lifetime; Germanium; Photoconductive decay; *TN736. SP305-4.*
- Silicon; Carrier lifetime; Germanium; Lithium-drifted gamma-ray detectors; Resistivity; Resistivity inhomogeneities; Second breakdown; *TN511. SP305-2.*
- Silicon; Carrier lifetime; Gold-doped silicon; Resistivity; Semiconductor characterization; *13419. SP305-5.*
- Silicon; Carrier trapping; Gamma-ray detector; Germanium;  $Ge(Li)$  detector; Infrared response; *NBSIR 74-626. SP305-7.*
- Silicon; Cells; Charge-coupled device (CCD); Chevron; Garnet; Large-scale integration (LSI); Line width; Lithography; Magnetic bubble device (MB); Memory storage density; N-channel metal-oxide-semiconductor (N-MOS); Random-access memory (RAM); *16647. SP305-8.*
- Silicon; Coupling constants; Fluorine; Fluoroalkylsilanes; NMR; Relative signs; *16432. SP305-8.*
- Silicon; Deep impurities; Germanium; Infrared; Photoconductivity; Photoresponse; Semiconductors; *TN570. SP305-3.*
- Silicon; Defect level; Germanium; Impurity levels; Infrared response; Lithium-drifted diodes; Semiconductors; *12758. SP305-4.*
- Silicon; Defect levels; Impurity levels; Infrared response; Lithium-drifted radiation detectors; Semiconductors; *12765. SP305-4.*
- Silicon; Density standard; Phase shift; *NBSIR 75-768. SP305-8.*
- Silicon; Detector; Proton; Radiation effect; Semiconductor; *10474. SP305-1.*
- Silicon; Detector; Proton; Radiation effect; Semiconductor; *10881. SP305-2.*
- Silicon; Device fabrication; Environmental testing; Integrated circuits; Measurement methods; Microcircuits; *SP336, pp. 449-455. SP305-3.*
- Silicon; Electrons; Lithium-drifted silicon detector; Neutrons; Protons; Radiation damage; Radiation effects; *12782. SP305-4.*
- Silicon; Field-ion microscopy; Semiconductor surface structure; *15128. SP305-7.*
- Silicon; Gallium phosphides; High pressure; Metallic phase transitions; Phonon dispersion; Raman scattering; *15128. SP305-7.*
- Silicon; Germanium; Inhomogeneities; Measurement methods; Photovoltaic effect; Resistivity; Semiconductors; *1422. SP305-6.*
- Silicon; Monoenergetic electrons; Monte Carlo calculations; Response function; Semiconductor detectors; *10629. SP305-1.*
- Silicon; Silicon difluoride; Trifluoro(trifluoromethyl)silane; Difluoroiodo(trifluoromethyl)silane; Fluorine; Fluoroalkylsilanes; *12558. SP305-4.*
- Silicon; Silicon dioxide; Silicon on sapphire; Spreading resistance; Test patterns; Thermally stimulated current; Thermal resistance; Ultrasonic wire bonding; Voltage control mode; X-ray photoelectron spectroscopy; Acoustic emission; Auger electron spectroscopy; *SP400-25. SP305-8.*
- Silicon; Silicon dioxide; Surface analysis; X-ray photoelectron spectroscopy; Auger electron spectroscopy; Depth profiling; Ion implantation; Ion sputtering; Microelectronic materials; Rutherford backscattering; Secondary ion mass spectroscopy; *15739. SP305-8.*
- Silicon; Silicon on sapphire; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Transistors; Ultrasonic wire bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; *SP400-19. SP305-8.*
- Silicon; Sodium; Sulfur; Transition probabilities; Allowed and forbidden transitions; Aluminum; Argon; Calcium; Chlorine; Magnesium; Oscillator strengths; Phosphorus; Potassium; *NSRDS-NBS22. SP305-1.*
- Silicon; Soft x-ray emission; Carbon; Diamond; Electronic density of states; Germanium; Kp method; Orthogonalized plane wave (OPW) method; *SP323, pp. 335-337. SP305-4.*
- Silicon; Solubilities; Ternary system; X-ray investigations; Ternary system; Boron; Carbon; Chemical analysis; Melting point determination; Metallography; Phase-field diagrams; *SP364, pp. 505-513. SP305-4.*
- Silicon; Solvent; Spin coupling constants; Fluorine; Fluoroalkylsilanes; Nuclear magnetic resonance; *9810. SP305-1.*
- Silicon; Space charge regions; Gallium arsenide; Germanium; P-n junctions; Radiative recombination; *9519. SP305.*
- Silicon; Space simulation; Defect annealing; Impurities; *SP305, pp. 313-321. SP305-3.*
- Silicon; S-parameters; Spreading resistance; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Beam leads; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; *TN806. SP305-5.*
- Silicon; S-parameters; Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; Wire bonds; Contact resistance; Die attachment; Dopant profiles; Electrical properties; Electron Gold-doped silicon; Hermeticity; *SP400-1. SP305-6.*
- Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated measurements; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; *TN773. SP305-5.*
- Silicon; S-parameters; Switching transients; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; *TN788. SP305-5.*
- Silicon; Spectroscopy; Standards; Vacuum ultraviolet; Wavelength; Energy levels; *10001. SP305-1.*



- Silicon; Spectrum; Standards; Ultraviolet; Vacuum; Wavelengths; Carbon; Copper; Germanium; Ritz; 9338. SP305.
- Silicon; Spectrum; Si i; Wavelengths; Si i; Atomic energy levels; Atomic spectra Si i; First spectrum; Multiplet table; *NSRDS-NBS3, Section 2*. SP305.
- Silicon; Spherical interferometer; Spherical volume; Volume standard; Density standard; Hydrostatic weighing; Perfect sphere; *J78A No. 1, 13-40 (1974)*. SP305-6.
- Silicon; Spin coupling constants; Chemical shifts; Fluorine; Fluorosilanes; Nuclear magnetic resonance; 9810. SP305-1.
- Silicon; Spin coupling constants; Chemical shift; Double resonance; Fluorine; Fluorosilanes; Nuclear magnetic resonance; Octafluorotrisilane; 10278. SP305-1.
- Silicon; Spin coupling constants; Double resonance; Fluorine; Fluorosilanes; Hydrogen; Nuclear magnetic resonance; Phosphorus; Relative signs; 10373. SP305-1.
- Silicon; Spin-coupling; Solvent effects; Chemical shift; Coupling constant; Double resonance; Fluorine; Fluorosilanes; Nuclear magnetic resonance; 10374. SP305-1.
- Silicon; Spreading resistance; Automated testing; Epitaxial silicon; Impurity concentration; Resistivity; Semiconductor materials; *SP400-10*, pp. 95-98. SP305-6.
- Silicon; Spreading resistance; Contact resistance; Correction formulae; Sheet resistance; *SP400-10*, pp. 27-44. SP305-6.
- Silicon; Spreading resistance; Crystal growth; Czochralski; Fourier transform; Microsegregation; Resistivity characterization; *SP400-10*, pp. 191-199. SP305-6.
- Silicon; Spreading resistance; Dopant concentration; Dopant profiles; Metal-semiconductor contacts; Resistivity; Semiconductor surface preparation; *SP400-10*. SP305-6.
- Silicon; Spreading resistance; Steel probe; Topography; Bevel; Interferometer; Jig; Microcontacts; *SP400-10*, pp. 99-108. SP305-6.
- Silicon; Spreading resistance; Surface orientation; Contact radius; Correction factors; *SP400-10*, pp. 137-144. SP305-6.
- Silicon; Spreading resistance; Test patterns; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Thick film copper; Voltage contrast mode; Wire bonds; X-ray photoelectron spectroscopy; Boron redistribution; Collector resistor; Doping profiles; *SP400-4*. SP305-6.
- Silicon; Spreading resistance; Test pattern; Epilayer thickness; *SP400-10*, pp. 217-221. SP305-6.
- Silicon; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Ultrasonic bonding; Voltage contrast mode; Wire bonds; Boron redistribution; Darlington pairs; Dopant profiles; *SP400-8*. SP305-7.
- Silicon; Square array; Bulk resistivity; Collector resistivity; Four-probe; Planar test structure; Resistivity; Semiconductor characterization; Semiconductor device; 16424. SP305-8.
- Silicon; Stability; Temperature dependence; Fatigue; Light memory; Photocells; Photodiodes; Photometry; Radiometry; Selenium; *TN594-5*. SP305-5.
- Silicon; Standard; Weighing; Density; Etching; Grinding; Sawing; *NBSIR 76-1019*. SP305-8.
- Silicon; Stimulated emission; GaAs laser; Laser pulse shapes; Lifetime; Optical pumping; Radiative recombination; Ruby laser; 10133. SP305-1.
- Silicon; Strontium titanate; Modulation technique; Optical; Piezo-optical; Semiconductor; 9708. SP305-1.
- Silicon; Sub-halides; Boron; Fluorine; NMR; Polysilanes; 9229. SP305.
- Silicon; Sulfur; Boron; Carbon; Light elements; Metals; Nitrogen; Oxygen; Phosphorus; *TN524*. SP305-2.
- Silicon; Surface analysis; X-ray photoelectron spectroscopy; Auger spectroscopy; Depth profiles; Electron beam induced imaging; ESCA; Insulator films; Interface characteristics; Internal photoemission; Ion scattering spectroscopy; Nuclear resonance profiling; *SP400-23*. SP305-8.
- Silicon; Surface photovoltage; Carrier lifetime; Diode recovery time; Germanium; Photoconductive decay; Photomagnetolectric effect; 10584. SP305-1.
- Silicon; Surface photovoltage; Carrier lifetime; Gallium arsenide; Gold-doped silicon; Resistivity; 14606. SP305-6.
- Silicon; Temperature coefficients; Extrinsic exhaustion region; Germanium; N-type; P-type; Resistivity; 10736. SP305-1.
- Silicon; Test methods; Microelectronics; Monolithic microcircuits; Reliability; Semiconductor devices; 10858. SP305-1.
- Silicon; Test pattern; Test structures; Dopant density; Microelectronics; MOS capacitors; *n-p-n* transistor fabrication; *p-n* junctions; Resistivity; Semiconductor electronics; Sheet resistors; *SP400-22*. SP305-8.
- Silicon; Test patterns; Data acquisition; Data display; Integrated circuits; Measurement technology; Microelectronics; Process control; Reliability; Semiconductors; *SP 400-15*. SP305-8.
- Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; *SP400-12*. SP305-7.
- Silicon; Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Boron nitride; Boron redistribution; Capacitance-voltage methods; Darlington pairs; Deep depletion; Dopant profiles; *SP400-17*. SP305-7.
- Silicon; Thermal properties; Wire bonds; Carrier lifetime; Electrical properties; Germanium; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; *TN472*. SP305-1.
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; *TN717*. SP305-4.
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; *TN727*. SP305-4.
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN733*. SP305-4.
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; *TN702*. SP305-3.
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; *TN560*. SP305-3.
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; *TN571*. SP305-3.
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; *TN592*. SP305-3.
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bonder; Wire bonds; Alpha-particle detectors; Al-

- minum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; *TN598*. **SP305-3.**
- Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Germanium; Metallization; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; *TN475*. **SP305-1.**
- Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; *TN488*. **SP305-1.**
- Silicon; Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; *TN495*. **SP305-1.**
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic microphone; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; Gold-doped silicon; *TN520*. **SP305-2.**
- Silicon; Thermal resistance; Thermographic measurements; Ultrasonic bond; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; *TN555*. **SP305-2.**
- Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Generation centers; Germanium; *TN754*. **SP305-5.**
- Silicon; Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Generation centers; Germanium; *TN743*. **SP305-4.**
- Silicon; Thermally stimulated capacitance; Thermally stimulated current; Gold-doped silicon; Measurement methods; MOS capacitor; *p-n* junction; Semiconductor defects; *16363*. **SP305-8.**
- Silicon; Thermally stimulated capacitance; Thermally stimulated current; Cryostat; Defects; Gold-doped silicon; Measurement methods; Microelectronics; MOS capacitor; *p-n* junctions; Semiconductors; *SP400-26*. **SP305-8.**
- Silicon; Thermally stimulated measurements; Defect centers; *p-n* junction; Semiconductor characterization; *14226*. **SP305-6.**
- Silicon; Time-of-flight mass spectrometry; Transport species; Boron; Electric discharge; Germanium; Oxyfluorides; Reactive intermediates; *10853*. **SP305-1.**
- Silicon; Tin; EPR; Free radicals; Germanium; Irradiation; Low-temperature reaction; Organometallic compounds; *J73A No. 2, 201-206* (1969). **SP305-1.**
- Silicon; Titanium dioxide; Acetonitrile; Cyclic voltammetry; Electrochemistry; Nonaqueous; Semiconductor; *SP455*, pp. 149-152 (Nov. 1976). **SP305-8.**
- Silicon; Topography; Crystal perfection; *11286*. **SP305-2.**
- Silicon; Transport properties; Tunneling; Antimony-doped silicon; Arsenic-doped silicon (As doped Si); Band absorption; Band tailing; Depletion layer barrier tunneling; Electronic density of states; Esaki diode; *SP323*, pp. 693-712. **SP305-4.**
- Silicon; Ultraviolet; Uniformity of response; Detector; Photodiode; *16413*. **SP305-8.**
- Silicon; Wire bonding; Die bonding; Hermeticity; Integrated circuits; Measurement methods; Microelectronics; Oxides; Photolithography; Process control; Reliability; Semiconductor devices; *SP400-3*. **SP305-6.**
- Silicon; X rays; Dosimetry; Exposure rate measurement; Gamma rays; Radiation detection devices; Radiation detectors; Radiation monitoring; Semiconducting devices; *1005*. **SP305-1.**
- Silicon; X rays; Dosimetry; Gamma rays; Photodiode; Photo voltaic effects; Radiation detection; Radiation detectors; Semiconducting devices; *11114*. **SP305-2.**
- Silicon; Zincblende; ZnSe; Aluminum phosphide (AlP); Electronic density of states; Exchange potential; Gallium arsenide (GaAs); Germanium; Self-consistent orthogonalized plan wave model (SCOPW); Semiconductors, tetrahedral bonded; *SP323*, pp. 93-102. **SP305-4.**
- Silicon aluminum ordering; Aluminum silicate; Feldspar; Neutron refinement; Orthoclase, silicate minerals; *1369*. **SP305-5.**
- Silicon avalanche diode; Solid state noise source; Stability; *16500*. **SP305-8.**
- Silicon carbide; Wear; Alcohol; Glass; Mechanism; *1512*. **SP305-7.**
- Silicon characterization; Spreading resistance; Surface effect; Automated resistivity measurements; Calibration; Germanium characterization; Sample preparation; *SP400-10*, pp. 145-154. **SP305-6.**
- Silicon density; Substitution balance; Volumetric measurement; Water density; Water weighing; Air density; Balance; Balance calibration; Balance equilibrium; Balance sensitivity; Density; Double substitution weighing; *J71C3-254, 179-198* (1967). **SP305.**
- Silicon detector; Absorbed energy vs depth; Absorbed energy distributions; Incident monoenergetic electrons; Monte Carlo calculations; Semi-infinite aluminum medium; *12140*. **SP305-3.**
- Silicon detector; Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Time shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; X-ray mass attenuation coefficient; Zinc analysis; Computing; *TN452*. **SP305-1.**
- Silicon detectors; Detector response function; Electron backscattering; Electron energy absorption; Electron transmission; *TN489*. **SP305-1.**
- Silicon detectors; Surface layers; Absorbed dose; Absorbed energy distributions; Electron beams; Energy deposition; *12063*. **SP305-3.**
- Silicon devices; Time; Energy conservation; Fires; Gasoline consumption; Glass SRM; Hazardous chemicals; Lead second; Playground equipment safety; Scientific data; *DIM/NBS 59*, No. 2, 25-48 (1975). **SP305-7.**
- Silicon devices; Water heaters; Windowless buildings; Auto fuels; Energy; Highway safety; Lead; Pressure transducer; Railway safety; *DIM/NBS 59*, No. 8, 169-192 (1975). **SP305-7.**
- Silicon difluoride; Base catalyzed decomposition; Fluorodisilane; Pentafluorodisilane; Physical properties; Pyrolysis; *16014*. **SP305-8.**
- Silicon difluoride; Trifluoro(pentafluoroethyl)silane; Trifluoro(trifluoromethyl)silane; Alpha-elimination; Carbene; Difluorocarbene; Difluoroiodo(perfluoroalkyl)silane; Fluoroalkylsilanes; Fluoro(trifluoromethyl)carbene; *12869*. **SP305-4.**
- Silicon difluoride; Trifluoro(trifluoromethyl)silane; Difluoroiodo(trifluoromethyl)silane; Fluorine; Fluoroalkylsilanes; Silicon; *12558*. **SP305-4.**
- Silicon diodes; Anisotropy; Crystallographic orientation; H carriers; Semiconductor breakdown; *J73A No. 3, 321-33* (1969). **SP305-1.**
- Silicon diodes; Visible radiation; Hot electrons; *9458*. **SP305.**
- Silicon dioxide; Silica; *11616*. **SP305-2.**
- Silicon dioxide; Silicon on sapphire; Spreading resistance; Temperature patterns; Thermally stimulated current; Thermal resistance

- Ultrasonic wire bonding; Voltage contrast mode; X-ray photoelectron spectroscopy; Acoustic emission; Auger electron spectroscopy; Beam-lead bonds; *SP400-25. SP305-8.*
- Silicon dioxide; Surface analysis; X-ray photoelectron spectroscopy; Auger electron spectroscopy; Depth impurity profiling; Ion implantation; Ion sputtering; Microelectronic materials; Rutherford backscattering; Secondary ion mass spectroscopy; Silicon; *15739. SP305-8.*
- Silicon doping; Amphoteric compensation; Band tailing; Coulomb potential screening; Gallium arsenide; Photoluminescence; *12877. SP305-4.*
- Silicon doping profiles; Spreading resistance measurement; Surface damage; Beveling; Diamond grinding; Laser bevel angle measurement; Layer thickness determination; Materials; Resistivity measurement; *SP400-10*, pp. 123-136. **SP305-6.**
- Silicon films; Specular reflection; Differential reflection; Epitaxial semiconductor devices; Kramers-Kronig relation; Multiple reflection; Sapphire surfaces; *NBS-GCR-76-61. SP305-8.*
- Silicon  $\alpha$ ; Silicon spectra; Vacuum ultraviolet standards; Atomic spectrum of silicon; Carbon spectra; Electrodeless discharge; Germanium spectra; Nitrogen spectra; *9337. SP305.*
- Silicon molecules; Structures; Unidentified molecular lines; Microwave spectra; Predicted spectra; Radio astronomy; *14867. SP305-7.*
- Silicon monoxide; Carbon monosulfide; Carbon monoxide; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; *J. Phys. Chem. Ref. Data 3*, No. 1, 245-257 (1974). **SP305-6.**
- Silicon monoxide; Circular polarization; Maser; Orion; Pumping processes; Radio astronomy; *15004. SP305-7.*
- Silicon monoxide; Rotational transitions; Maser; M-type stars; Molecular emission, Orion Nebulae; *15210. SP305-7.*
- Silicon nitride; Silicon oxynitride;  $\text{Si}_3\text{N}_4$ ;  $\beta$ -cristobalite; Electron microscopy; Oxidation; *15452. SP305-7.*
- Silicon nitride; Slow crack growth; Elevated temperatures; Failure prediction; *14278. SP305-6.*
- Silicon nitride; Slow crack growth; Acoustic emission; Crack propagation; Cyclic conditions; Failure times; High temperatures; *16064. SP305-8.*
- Silicon nitride; Slow crack growth enstatite; Cristobalite; Deformation; Electron microscopy; Microstructure; Oxidation; *NBSIR 76-1153. SP305-8.*
- Silicon on sapphire; Spreading resistance; Test patterns; Thermal resistance; Thermal response; Transistors; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; *SP400-19. SP305-8.*
- Silicon on sapphire; Spreading resistance; Test patterns; Thermally stimulated current; Thermal resistance; Ultrasonic wire bonding; Voltage contrast mode; X-ray photoelectron spectroscopy; Acoustic emission; Auger electron spectroscopy; Beam-lead bonds; *SP400-25. SP305-8.*
- Silicon optical absorption coefficient; Temperature mapping; Active devices; Hot-spot behavior; Laser scanning; Non-destructive testing; *16577. SP305-8.*
- Silicon oxynitride;  $\text{Si}_3\text{N}_4$ ;  $\beta$ -cristobalite; Electron microscopy; Oxidation; Silicon nitride; *15452. SP305-7.*
- Silicon photodetector; Surface damage; Surface recombination lifetimes; Laser damage; *SP387*, pp. 107-113. **SP305-5.**
- Silicon powder diffraction standard; Standard, powder diffraction; Standard reference material, silicon; Powder diffraction standard, silicon; *14905. SP305-7.*
- Silicon radiation detector; Temperature dependence; X rays; Gamma rays; Photocurrents; Radiation; Radiation detector; Radiation dosimetry; *J.75A No. 6*, 579-589 (1971). **SP305-3.**
- Silicon radiation detectors; Trapping; Energy, required to create an electron-hole pair; Low temperature; Recombination; Shockley theory of  $\epsilon$ ; *9299. SP305.*
- Silicon resistivity; Spreading resistance techniques; Dark field coring; MOS-CV techniques; *PICTUREPHONE*; Radial resistivity inhomogeneities; *SP400-10*, pp. 179-184. **SP305-6.**
- Silicon single crystals; Spreading resistance measurements; Swirls; Oxygen in silicon; *SP400-10*, pp. 185-190. **SP305-6.**
- Silicon solar cell; Tires; Tire footprint; Contact area; *11553. SP305-2.*
- Silicon spectra; Vacuum ultraviolet standards; Atomic spectrum of silicon; Carbon spectra; Electrodeless discharge; Germanium spectra; Nitrogen spectra; Silicon  $\alpha$ ; *9337. SP305.*
- Silicon spectra in the sun's atmosphere; Spectra of silicon, atomic and ionic in the sun; Sun, silicon in the; *12010. SP305-3.*
- Silicon steel; Transformer steel; Backscattered electrons; Domain walls; Magnetic domains; Scanning electron microscope; *15921. SP305-8.*
- Silicon sulfide; Spectra; Interstellar molecules; Microwave spectra; Radio astronomy; Rotational transitions; *JPCRD 5*, No. 4, 1147-1156 (1976). **SP305-8.**
- Silicon surface-barrier detector; Alpha particles; Capacitance; Detector noise; Electron fluence; Electrons radiation damage; Leakage current; *12107. SP305-3.*
- Silicon thermal resistance; Thermographic measurements; Ultrasonic bond; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; Gold-doped silicon; *TN527. SP305-2.*
- Silicon transmission detector; Detector response function; Electron absorption; Electron backscattering; Electron transmission; *10839. SP305-1.*
- Silicone; Diffusion pump fluid; Micromanometry; *13539. SP305-5.*
- Silicone pad; Solid surface fluorometry; Enzymes, fluorometric analysis; Fluorometry of enzymes; Fluorometry of substrates; *SP378*, pp. 197-202. **SP305-5.**
- Silicone pad; Solid surface fluorometry; Enzymes, fluorometric analysis; Fluorometry of enzymes; Fluorometry of substrates; *J.76A No. 6*, 607-612 (1972). **SP305-4.**
- Silicone resin; Solid lubricants; Titanium; Wear; Curing agent; Fretting; *SP452*, pp. 124-131 (Sept. 1976). **SP305-8.**
- Silicone rubber; Ablation; Aerodynamic shear; Carbon; Char; Cork; Epoxy-novolac; Erosion; Phenolic carbon; *SP336*, pp. 837-851. **SP305-3.**
- Silicone rubber; Stability; Candida albicans; Dentures; Dimensional changes in dentures; Oral tissues; Resilient reliners; Retention; *10499. SP305-1.*
- Silicosis; X-ray diffraction; Analytical methods; Industrial hygiene; Quartz; *13975. SP305-6.*
- Siloxane; Stereochemistry; Synthesis; Tungsten; Fluorine; Methoxy; *N.m.r.; 11630. SP305-2.*
- Silver; Accuracy; Activation analysis; Copper; Gold; Hafnium; Palladium; Platinum; Precision; Radiochemical separations; *SP422*, pp. 1157-1164 (Aug. 1976). **SP305-8.**
- Silver; Copper alloy; Copper; Cryogenics; Dilution refrigerator; Heat exchanger; Kapitza resistance; Liquid helium; Powder; *15238. SP305-7.*
- Silver; Coulometry; Electrochemical equivalent; Electrochemical equivalent of silver; Faraday; *15922. SP305-8.*
- Silver; Cryogenics; Dilution refrigerator; Heat transfer; Helium  $\beta$ ; Helium  $\alpha$ ; Kapitza resistance; Liquid helium; Powder; *15219. SP305-7.*
- Silver; Crystal growth; Dendrite; Electrocrystallization; Electrodeposited crystals; Electrodeposited dendrites; *9422. SP305.*
- Silver; Dendrites; Electrodeposition; Growth twins; *10346. SP305-1.*
- Silver; Electroanalysis; Linear potentiometry; Microtitration; Null-point potentiometry; Potentiometry; *10223. SP305-1.*
- Silver; Linear null-point potentiometry; Microdetermination of silver; Potentiometry; *10543. SP305-1.*

Silver; Silver-tin alloys; Stacking fault probability; X-ray diffraction data; 11915. **SP305-3.**

Silver; Sputter deposition; Aluminum; Copper; Flash desorption spectroscopy; Gold; Reflectance; *SP462*, pp. 195-202 (Dec. 1976). **SP305-8.**

Silver; Standard errors; Standard reference materials; Vapor pressure; Cadmium; Components of error (within- and between-laboratory); Heats of sublimation (second and third law); Interlaboratory measurements; *SP260-21*. **SP305-3.**

Silver; Sub-stoichiometric radioisotopic dilution analysis; Trace amounts; Cadmium; Dithizone; 9168. **SP305.**

Silver; Surface diffusion; Thermomigration; Alloy diffusion; Copper; Diffusion; Electromigration; Gold; Grain boundary diffusion; Impurity diffusion; Liquid metal diffusion; *J. Phys. Chem. Ref. Data* 3, No. 2, 527-602 (1974). **SP305-6.**

Silver; Tantalum; Tin; Aluminum; Beryllium; Cobalt; Copper; Compilations; Electrical resistivity; Gold; Indium; Iron; Lead; Low temperature; Magnesium; Molybdenum; Nickel; Niobium; Platinum; *TN365*. **SP305-1.**

Silver; Temperature scales; Thermodynamic properties; Calorimetry; Copper; Debye theta ( $\theta$ ); Electronic coefficient of heat capacity; Enthalpy; Entropy; Gibbs energy; Gold; Heat capacity; *NSRDS-NBS18*. **SP305-1.**

Silver; Thallium; Zinc; Atomic spectra; Cadmium; Copper; Energy levels; Energy parameters; 11390. **SP305-2.**

Silver; Tin; Collision; Cross section; Electrons; Energy; Ionization; Photons; 10380. **SP305-1.**

Silver; Titanium; Yields; Aluminum; Beryllium; Carbon; Copper; Electron excitation; Gold; K x-ray beams; Purities; 14261. **SP305-6.**

Silver; Transition probabilities; Aluminum; Auger electron transitions; Electronic density of states; Final state effects; 13514. **SP305-5.**

Silver; Transition probability; Ag  $\gamma$ ;  $f$ -value; Imprisonment; Lifetime; Mean life; Resonance radiation; 15120. **SP305-7.**

Silver; Twinning; X-ray diffraction; Dendrites; Electrocrystallization; Faceting; 10605. **SP305-1.**

Silver; Zinc; Atomic spectra; Energy levels; *J.74A No. 1, 7-10* (1970). **SP305-2.**

Silver adsorption; Silver ion-selective electrode; Trace silver determination; Electrometric study of silver adsorption; 12353. **SP305-3.**

Silver (Ag); Copper; Dielectric constant; Direct interband transitions; Electronic density of states; Interband transition; Korrington-Kohn-Rostoker (KKR); "muffin-tin" potential; Palladium (Pd); Photoemission; Plasmon; *SP323*, pp. 181-189. **SP305-4.**

Silver (Ag); Titanium (Ti); Zirconium (Zr); Copper; Direct versus nondirect transitions; Electronic density of states; Gold (Au); Nondirect transitions; Optical density-of-states; Photoemission; Scandium (Sc); *SP323*, pp. 205-208. **SP305-4.**

Silver alloys; X-ray studies; Alloys; Plastics; 11413. **SP305-2.**

Silver aluminum alloys (Al-Ag); Soft x-ray emission; Aluminum-copper alloys (AlCu); Aluminum-zinc alloys (Al-Zn); Electron density of states; *SP323*, pp. 307-312. **SP305-4.**

Silver amalgam; Amalgam; Creep; Creep activation energy; Dental amalgam; *J.72C No. 3, 215-218* (1968). **SP305-1.**

Silver bromide; 2.8-MeV neutrons; 14.7-MeV neutrons; Chloride; Iodide; Nondestructive neutron activation analysis; Photographic emulsions; 11091. **SP305-2.**

Silver chloride; Coulometric titration; High accuracy analysis; High precision analysis; Photodecomposition; 11268. **SP305-2.**

Silver coated teflon; Teflon film; Ultraviolet degradation; Aluminum coated teflon; Electron degradation; Proton degradation; *SP336*, pp. 345-358. **SP305-3.**

Silver dental alloys; Specimen preparation; Spectrometry; X-ray fluorescence; Analysis; Line interference correction; 10419. **SP305-1.**

Silver halides; Dosimetry; Gamma rays; Hypersensitization; Internal image; Latensification; Photographic developer; Physical development; Printout; Photolysis; Radiograph films; 11643. **SP305-2.**

Silver indium sulfide; Spinel-type; Wurtzite-type; Chalcopyrite type; 13251. **SP305-5.**

Silver iodide; Site-occupation; Structure; Structure memory; Alpha-phase; Crystallography; 10322. **SP305-1.**

Silver ion-selective electrode; Trace silver determination; Electrometric study of silver adsorption; Silver adsorption; 12353. **SP305-3.**

Silver nitrate; Aromatics; Gas analysis; Gas chromatography; Isotope effect; Isotopic separation; Olefins; 13291. **SP305-5.**

Silver nitrate; Surface effect; Aliphatics; Aromatics; Complexing effects; Gas chromatography; Group separation; Mercury nitrate; Olefins; 12024. **SP305-3.**

Silver oxide; Dissociation by heat; Entropy; Equilibrium; Heat of reaction; Oxygen pressures; 9377. **SP305.**

Silver oxides;  $\text{Ag}_2\text{O}$ ;  $\text{Ag}_2\text{O}_2$ ; Aqueous potassium hydroxide; Dissociation; Rates; 10772. **SP305-1.**

Silver whiskers; Beta alumina; Electron microscopy; Lattice images; Migration of silver; *SP364*, pp. 129-137. **SP305-4.**

Silver-aluminum; Thermomigration; Vacancies; Alloys; Aluminum; Copper-aluminum; Nonisothermal diffusion; 1577. **SP305-8.**

Silver-aluminum alloys (AgAl); Soft x-ray emission;  $s$ -orbital density of states; Electron density of states; Gold aluminum ( $\text{AuAl}_2$ ); Gold-gallium ( $\text{AuGa}$ ); Gold-indium ( $\text{AuIn}_2$ ); *SP323*, pp. 303-305. **SP305-4.**

Silver-amalgam control specimens; Soft tissue; Amalgam alloy; Gallium alloys; Gold-gallium alloys; 9906. **SP305-1.**

Silver-gold alloy; Standard Reference Material; Thermocouple; Cryogenics; Seebeck voltage; *SP260-34*. **SP305-4.**

Silver-gold alloys (AgAu); Silver-indium alloys (AgIn); Silver-palladium alloys (AgPd); Virtual crystal approximation; Coherent potential approximation; Electronic density of states; Friedel screening theory; Photoemission; Silver-gold alloys (AgAu); *SP323*, p. 551-554. **SP305-4.**

Silver-indium alloys (AgIn); Silver-palladium alloys (AgPd); Virtual crystal approximation; Coherent potential approximation; Electronic density of states; Friedel screening theory; Photoemission; Silver-gold alloys (AgAu); *SP323*, pp. 55-554. **SP305-4.**

Silver-palladium alloys (AgPd); Virtual crystal approximation; Coherent potential approximation; Electronic density of states; Friedel screening theory; Photoemission; Silver-gold alloys (AgAu); Silver-indium alloys (AgIn); *SP323*, pp. 55-554. **SP305-4.**

Silver-silver chloride electrode; Glass electrode; Inner solution; pH measurement; Calomel electrode; Reference electrode; Temperature coefficients of e.m.f.; 11247. **SP305-2.**

Silver-tin alloy; Stacking fault energy; Annealing; Cubic alloy; Dislocation; Electron microscopy; Hexagonal alloy; 1338. **SP305-5.**

Silver-tin alloy; Stacking fault energy; Dislocations; Extrinsic faults; 9459. **SP305.**

Silver-tin alloy; Stacking fault tetrahedra; Dislocation loops; Dislocations; Electron microscopy; Quenching; 1003. **SP305-1.**

Silver-tin alloy; Stacking-fault energy; Dislocations; Electron microscopy; 9501. **SP305.**

Silver-tin alloys; Dislocation multipoles; Dislocation network; Dislocation nodes; Dislocations; Electron microscopy; Hexagonal alloys; 12072. **SP305-3.**

Silver-tin alloys; Spherical alloy; Spherical-alloy amalgam; Adaptability; Amalgams; Dental amalgam; Dentistry; Mercury-silver alloys; Packing pressure; Particle size; 9448. **SP305.**

Silver-tin alloys; Stacking fault energy; Dislocations; Electron microscopy; Oxygen impurities; 10566. **SP305-1.**



- ilver-tin alloys; Stacking fault energy; Dislocation; Dislocation double ribbons; Dislocation nodes; Hcp alloys; 11440. SP305-2.
- ilver-tin alloys; Stacking fault probability; X-ray diffraction data; Silver; 11915. SP305-3.
- ilver-tin alloys; Stacking faults; X-ray diffraction; Dislocations; Electron microscopy; 9963. SP305-1.
- ilver-tin alloys; Stacking-fault energy; Stacking faults; Dislocation nodes; Dislocations; Electron microscopy; 9502. SP305.
- ilver-109m; Standardization; Well crystal counting; Cadmium-109; Cobalt-57; Gamma-ray emission rate; Iron-57; Photoelectron escape; 12885. SP305-4.
- ilver, tellurium (Ag<sub>2</sub>Te); Ti-Al; TiCo; TiFe; TiNi; Ti<sub>2</sub>Te; Binary alloys; Bi<sub>2</sub>Te; CdSb; Copper-gold (Cu-Au); Cu<sub>3</sub>Au; CuPt; Cu<sub>2</sub>Pt; Ductility; SP323, pp. 483-492. SP305-4.
- milar; Spectrum; Unitary; Adjoint; Hilbert's Theorem 90; Involutions; Normal; 14891. SP305-7.
- milar gamma-ray energy; Standard Reference Materials; Trace; Accuracy; Activation; Analysis; Decay curve resolution; Gamma-ray attenuation; Geometrical location; Neutron; Neutron self-shielding; Precision; 10078. SP305-1.
- milar types; Tabulation; Basing connections; Characteristics; Electron tubes; H103. SP305.
- milarity; Matric equation; Partitioned matrix; Rational canonical form; J.79B Nos. 3 and 4, 117-125 (1975). SP305-7.
- milarity transformations; Weyl prescription; Baker-Campbell-Hausdorff formula; Density matrix; Differential equations; Expansions; Exponential operators; Harmonic oscillator; Lie algebra; Normal ordering of operators; Operator identities; 10130. SP305-1.
- mon; Size; Stirling; Claude; Cryogenics; Gifford-McMahon; Helium; Joule-Thomson; Liquid; Power; Refrigeration; 11146. SP305-2.
- imple extension; Simple shear; Stress relaxation; Time effects; Uniaxial strain; Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; Elastic strain energy function; Finite strain; Non-linear behavior; 9583. SP305-1.
- imple fluid; Time correlation function; Argon; Bulk viscosity; Shear relaxation time; Shear viscosity; 9960. SP305-1.
- imple fluids; Specific heats; Temperature dependence; Density dependence; Molecular dynamics; 12525. SP305-4.
- imple fluids; Temperature dependence; Thermal conductivity; Transport properties; Viscosity; Density dependence; Liquid state; 11879. SP305-3.
- imple fundamental polygon; F-regular region; Fuchsian group; Fundamental polygon; Horocyclic region; Hypercyclic region; 9760. SP305-1.
- imple groups; Linear fractional groups; Maximal normal subgroups; 11072. SP305-2.
- imple liquids; Superposition approximation; Three body correlation function; X-ray diffraction; Neutron diffraction; Percus-Yevick equation; Radial distribution function; 12016. SP305-3.
- imple liquids; Thermodynamic properties; Analytical partition function; Molecular parameters; Molecular size; 9691. SP305-1.
- imple materials assumption; Elasticity; Finite torsion; Natural rubber; Scaling law; 16278. SP305-8.
- imple prototypes; *Ab initio* calculations; HF approximation; Schematic mechanism; 13287. SP305-5.
- imple shear; Stress relaxation; Time effects; Uniaxial strain; Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; Elastic strain energy function; Finite strain; Non-linear behavior; Non-Newtonian fluids; 9583. SP305-1.
- imple quadratures; Approximation theory; Conditional convergence; Infinite series; Integration; Quadrature; 13181. SP305-5.
- Simplicial complex; Combinatorics; Cross-cut; Homology; Homotopy; Lattice; 10687. SP305-1.
- Simplified approximate solutions; Thin plates; Bassali's theory; Concentric loading; Circular plates; Deflection; Elasticity; Experimental; Flexure; Point supports; J.70C4-234, 227-244 (1966). SP305.
- Simplified estimators; Statistics; Type I distribution; Bias; Efficiency; Extreme values; Linear unbiased estimators; NBSIR 75-637. SP305-7.
- Simplified practice recommendations; Standards of quality; Voluntary standardization; Government/non-government cooperation; Performance standards; Safety codes; 10505. SP305-1.
- Simply connected; Topology; 3-manifold; 3-sphere; Free group; Handlebody; Homeomorphism; J.71B2&3-197, 53-56 (1967). SP305.
- SIMSCRIPT; Simulation; Sorting; Freight operations; GPSS; Railroads; Scheduling; 9427. SP305.
- Simulated experiment, pressurized emf of thermocouples; Temperature, measurement at high pressure; Thermocouples, effect of pressure on emf of; Emf, thermocouple, effect of pressure on; Hot-junction temperature, nonlinear evaluation of; 12979. SP305-4.
- Simulated solar heating; Weight gain; Air leakage; Cooling loads; Rating and testing; Refrigerated truck bodies; 10260. SP305-1.
- Simulation; Airport; Airport capacity; Airport simulation; Models; Model validation; Runway capacity; 15029. SP305-7.
- Simulation; Algorithms; Least-squares; Multilateration; Position-location; Ranges; 14387. SP305-6.
- Simulation; Building; Computer; Fire; 11774. SP305-2.
- Simulation; Chain dynamics; Lattice model; Monte Carlo; Polymer; 11466. SP305-2.
- Simulation; City IV; Computer; Fortran; Gaming; IBM 360/70; JCL; NBSIR 73-112. SP305-6.
- Simulation; Computer; Decision-making; Games; Learning; Manual games; SP395. SP305-6.
- Simulation; Distribution; End-to-end length; Lattice model; Monte Carlo; Polymer chain dynamics; Relaxation; 9514. SP305.
- Simulation; Manning levels; Modeling; Multiserver queuing system; Resource locations; Resource utilization; Response system; 12949. SP305-4.
- Simulation; Simulation module; Computer programs; Computers; Computer simulation; Equations; Mathematical foundations; Mathematics; NBSIR 74-556. SP305-6.
- Simulation; Skin; Apparel fabrics; Fire hazard; Flammability testing; Heat conductivity; NBS-GCR-73-14. SP305-8.
- Simulation; Skin; Skin, cutting; Synthetic materials, cutting; Toys; Cut; Edges, hazardous; Experimental studies; Human tolerances; Injury; Injury thresholds; Inspection of edges; Laceration; Safety; NBSIR 73-262. SP305-7.
- Simulation; Skin; Thermal burns; Apparel fabrics; Fabrics; Fire hazard; Flammability testing; NBS-GCR-73-13. SP305-8.
- Simulation; Social; City; Computer; Computer games; Economic; Government; Metropolitan; NBSIR 74-555. SP305-6.
- Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; Players; Sectors; 13511. SP305-5.
- Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; Players; Sectors; NBSIR 73-108. SP305-6.
- Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; Players; Sectors; NBSIR 73-110. SP305-6.
- Simulation; Social; Urban; City; Computer; Director's; Economic; Games; Government; Metropolitan players; Sectors; NBSIR 73-113. SP305-6.

- Simulation; Social; Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; Players; Sectors; *NBSIR 73-114. SP305-6.*
- Simulation; Social urban; City; Computer; Director's; Economic; Games; Government; Metropolitan players; Sectors; *NBSIR 73-109. SP305-6.*
- Simulation; Software validation; Tools; Actual system performance; Computer performance evaluation; Performance prediction; *SP406*, pp. 79-82. **SP305-7.**
- Simulation; Solar ultraviolet radiation; Atmospheric environment; Balloon; Computer; Ozone; Plastic material; *SP336*, pp. 245-259. **SP305-3.**
- Simulation; Sorting; Freight operations; GPSS; Railroads; Scheduling; SIMSCRIPT; *9427. SP305.*
- Simulation; Space; Diving; Hyperbaric; Neutral buoyancy; *SP336*, pp. 651-659. **SP305-3.**
- Simulation; Space systems; System test bed; *SP336*, pp. 535-547. **SP305-3.**
- Simulation; Spectral; Absorbing; Anomalous dispersion; Carbon dioxide; Cryodeposit; Cryogenics; Frost; Infrared; Integrating sphere; Mars; Reflectance; Scattering; *SP336*, pp. 165-183. **SP305-3.**
- Simulation; State of Washington; Washington State; Washington State Fisheries; Fisheries; Fishery; Fishery modeling; Mathematical modeling; Regulatory analysis; Resource management; Salmon fisheries; Salmon fishery modeling; *NBSIR 75-745. SP305-7.*
- Simulation; Storage; Data recording; Debugging; Holography; Information control; Input-output; Integrated circuits; Lasers; Memory systems; Multiprocessing; Networks; On-line systems; Programming; *Monogr. 113, Volume 3. SP305-2.*
- Simulation; Sublimation; Thermal conduction; Thermal vacuum tests; Volatile constituents; Volatilization; Absorption; Adsorption; "bake out"; Components; Decomposition; Degassing; Environment; Evaporation; Outgassing; *SP336*, pp. 473-485. **SP305-3.**
- Simulation; Systems; Administration; Health; Hospital; Managerial applications; Model; Policies; Queuing model; Scheduling; *12803. SP305-4.*
- Simulation; Systems analysis; Alexandria; Fire department; Location; Operations research; Resource allocation; *TN782. SP305-6.*
- Simulation; Team development; Coast Guard; Development; Interdisciplinary team; Management science; Model building; Organization; Search and rescue; *12243. SP305-3.*
- Simulation; Thermal efficiency; Buildings; Conservation; Energy; Energy sources; Measurement; *14669. SP305-6.*
- Simulation; Time scale simulation; Frequency stability; International atomic time; Models; *TN689. SP305-8.*
- Simulation; Tufted carpet mill; Industrial dynamics; *9523. SP305.*
- Simulation; Validation; Airport; Airport capacity; Airport simulation; Models; Model validation; Runway capacity; *NBSIR 75-783. SP305-7.*
- Simulation; Wattmeter; Analog-to-digital conversion; Digital; Electricity; Electric power; Measurement; Sampling; *TN870. SP305-7.*
- Simulation model; Systems analysis; Urban analysis; East Lansing, Mich.; Facility location; Fire station; *12018. SP305-3.*
- Simulation module; Computer programs; Computers; Computer simulation; Equations; Mathematical foundations; Mathematics; Simulation; *NBSIR 74-556. SP305-6.*
- Simulation of building requirements; Systems design; Building codes; Building systems; Computer systems; Performance standards; *SP361, Vol. 1*, pp. 213-218. **SP305-4.**
- Simulation of clock performance; Atomic clock; Atomic clock modeling; Atomic clock noise; Atomic clock performance; Atomic time scale accuracy; Comparison of atomic time scales; Comparison of frequency standards; Frequency calibration; Frequency drift; *13989. SP305-6.*
- Simulation of computer systems; Software monitors; System design and evaluation; Time-sharing systems evaluation; Computer evaluation; Computer performance; Computer scheduling; Hardware monitors; *SP401. SP305-6.*
- Simulation research; Combined environmental stress; Dynamic environment simulator; Man-machine system; Man-rated centrifuge; *SP336*, pp. 587-598. **SP305-3.**
- Simulation techniques; Space research; Convective processes; Mars atmosphere exploration; Planetary atmosphere-surface interaction; Planetary meteorology; Research facility; *SP336*, pp. 699-723. **SP305-3.**
- Simulation techniques; Systems analysis; Urban problems; Accounting models; City management; Facility location; Operations research; *11445. SP305-2.*
- Simulation tests; Fire tests; Regulatory tests; *16113. SP305-8.*
- Simulator; Computer system; FORTRAN IV; Operating system; Resource allocation strategies; *14623. SP305-6.*
- Simulator; Strategies; Workload; FORTRAN IV; Operating system; Overhead; Resource allocation; *16062. SP305-8.*
- Simultaneous; Three-circle; X-ray; Diffraction; Diffractometer; Neutrons; *9524. SP305.*
- Simultaneous correlation; Theory; Transport properties; Equilibrium properties; Experimental data; Intermolecular potential function; *11021. SP305-2.*
- Simultaneous determination copper; Cobalt; "releasing agent" in flame emission and atomic absorption; Magnesium; Ferrous SRMs; Stoichiometric mixtures uranium oxide; Isotopic ratio determination; Spectrophotometric titration; Controlled potential coulometric; *TN402. SP305.*
- Simultaneous determination of oxygen and nitrogen; Standard Reference Material for oxygen; Inert gas fusion; One ppm oxygen and nitrogen in steel; Research Associate Program; *SP260-26. SP305-3.*
- Simultaneous determination of vanadium and iron; Spectrophotometric determination of vanadium; Analysis of steel samples; Extraction with  $\beta$ -isopropyltolpnone; *1233. SP305-3.*
- Simultaneous reception; Synchronization; Time transfer; Accurate time dissemination; Optical pulsars; Precision timing; *12959. SP305-4.*
- Simultaneous reception; Time dissemination; Time stabilization; Time synchronization; Time transfer; TV color subcarrier; 60-Hz power line; Atomic clock; Frequency calibration; Frequency stability; Optical pulsars; Remote clock comparisons; *12986. SP305-4.*
- Simultaneous spectrophotometric; 2,3-quinoxalinedithiol; Aqueous ethanol; Cobalt; Colored complexes; Copper; Lead squares treatment data; Nickel; *11682. SP305-2.*
- Simultaneous triangularization and diagonalization; Commutative matrices; Group representations; Normal matrices; Schur lemma; *J.71B2&3-201, 69-71 (1967). SP305.*
- Sine wave; Thermal diffusivity; Thermal-wave; Cam; Equation Generator; *10799. SP305-1.*
- Sine-wave comparison signal; Correlation radiometer; Differential time delay; Gain fluctuations; Imperfect multiple noise comparison; Nonidentical amplifiers; *J.71C2-253, 15, 170 (1967). SP305.*
- Single and multiple parameter nuclear analyses; Statistical weights; 14 MeV neutron activation; Counting precision; Efficiency variability; Limiting precision; Photoneuclear chemistry; Poisson statistics; *13694. SP305-5.*
- Single axis; Two-crystal x-ray instrument; X-ray instrument; Crystal x-ray instrument; *9666. SP305-1.*
- Single axis rotator; Site model; Smoluchowski's equation; Dielectric loss; Relaxation; *14646. SP305-6.*
- Single classification; Statistics; Variance components; Weighting; Analysis of variance; Average (weighted); Interlaboratory evaluation; Round robin; *11906. SP305-3.*

- angle commodity; Transportation; Transportation problem; Linear programming; Network flows; 14790. SP305-7.
- angle commodity flows; Wye-delta network reductions; Capacitated vertices; Delta-wye network reductions; Flows in networks; Graph theory; Mathematics; Network simplification; 10656. SP305-1.
- angle crystal; Alkali cyanides; Crystal dynamics; Dispersion curves; Orientation; Phonons; Rotational disorder; 15124. SP305-7.
- angle crystal; Ammonium bromide; Ammonium ion; Neutron scattering; Orientational disorder; Reorientation; Residence time; 15032. SP305-7.
- angle crystal; Antiferromagnetic; EPR; G value; K-band spectrometer; NiBr<sub>2</sub>; 9419. SP305.
- angle crystal; Calcium molybdate; Dielectric constant; Lead molybdate; 9434. SP305.
- angle crystal; Calcium tungstate; Dielectric constant; Lead tungstate; 9601. SP305-1.
- angle crystal; Coherent neutron scattering; Dispersion relation; Lattice dynamics; Palladium deuteride; Phonon frequency distribution; 15036. SP305-7.
- angle crystal; Crystal growth; Cuprous oxide; 12137. SP305-3.
- angle crystal; Hydrogen diffusion; Hydrogen in metals; Jump diffusion; Neutron scattering; Palladium hydride; Quasielastic scattering; 13136. SP305-5.
- angle crystal; ND<sub>2</sub>Cl; N.m.r.; Quadrupole; 10672. SP305-1.
- angle crystal; Skew reflection; Vapor growth; X-ray diffraction microscopy; Al<sub>2</sub>O<sub>3</sub>; Berg-Barrett; 13929. SP305-6.
- angle crystal; Sticking coefficient; Thermionic emission; Work function; Adsorption; Carbon monoxide; Chemisorption; Desorption; Electron reflection; Nitrogen; Oxygen; 10392. SP305-1.
- angle crystal; Stress optic constants; Birefringence; Germanium; KCl; Refractive index; SP435, pp. 164-169 (Apr. 1976). SP305-8.
- angle crystal; Stresses; Superconductive transition temperatures; Uniaxial stresses; Anisotropic uniaxial stress effect; Hydrostatic pressure; Reduced strontium titanate; 10413. SP305-1.
- angle crystal; Strontium molybdate; Strontium tungstate; Barium tungstate; Dielectric constant; 11724. SP305-2.
- angle crystal; Structure; Tetrakis-pyrazole-nickel chloride; X-ray; Octahedral complex; 10240. SP305-1.
- angle crystal; Structure determination; S-carboxymethyl-L-cysteine sulfone; X-ray, zwitterion; Hydrogen bonding; 16565. SP305-8.
- angle crystal; Surface morphology; Surface reaction; Bromine; Electron micrograph; Nickel; 10489. SP305-1.
- angle crystal; Temperature dependence; Elastic constants; Oxide; Rutile; 13152. SP305-5.
- angle crystal; Terbium oxide; Higher oxides; Hydrothermal crystal growth; Oxide structures; Praseodymium oxide; SP364, pp. 343-351. SP305-4.
- angle crystal; Tetrahedral anion; X-ray diffraction; Calcium fluoroborate; Calcium salts; Crystal structure; 14976. SP305-7.
- angle crystal; Tetramolybdate; X-ray structure determination; Alkali metal; Bronze; Heptagonal holes; Hexagonal tungsten bronze; Lattice image; Molybdate; Molybdenum; Niobate; Niobium; Oxide; SP364, pp. 15-27. SP305-4.
- angle crystal; Topography; X ray; Laser rod; Orientation; Ruby; 12066. SP305-3.
- angle crystal; Tungsten; Adsorption; Chemisorption; Desorption; Electron bombardment; Isotope; Oxygen; 11754. SP305-2.
- angle crystal; Tungsten; Ultraviolet photoelectron spectroscopy; Virgin CO; Adsorption; Carbon monoxide; Chemisorption; Desorption; Photoelectron spectroscopy; Photoemission; 15851. SP305-8.
- Single crystal; Tungsten; Work function; Adsorption; Field emission; Methane; Physical adsorption; 12735. SP305-4.
- Single crystal; Tungsten; Work function; Carbon monoxide; Chemisorption; Co-adsorption; Displacement reaction; Hydrogen; 12261. SP305-3.
- Single crystal; Tungsten; Work function; Binding state; Chemisorption; Hydrogen; Isotopes; 11753. SP305-2.
- Single crystal; Unit cell; Growth technique; N-eicosane; 11875. SP305-3.
- Single crystal; Velocity of sound; Uranium dioxide; Compressibility; Elastic constants; Elastic compliances; 9173. SP305.
- Single crystal; Vibration amplitudes; Hydrogen diffusion; Hydrogen in tantalum; Interstitial sites; Neutron scattering; Quasielastic scattering; Residence time; 14368. SP305-6.
- Single crystal; Voigt-Reuss-Hill; Debye temperature; Elastic constants; Lattice-vibrational properties; Polycrystal; 13987. SP305-6.
- Single crystal; X-ray back-reflection; Calcium molybdate; Crystal orientation; Crystallographic groups; Interplanar angles; Physical properties; Scheelite structure; J70A5-410, 379-384 (1966). SP305.
- Single crystal; X-ray diffraction; Anisotropic compressibility; Azides; Compressibility; High pressure; 12025. SP305-3.
- Single crystal; X-ray diffraction; Beta tricalcium phosphates; Cation vacancies; Positional disorder; 14540. SP305-6.
- Single crystal; X-ray diffraction; Cesium; Gallium; High-pressure; Polymorph; 12187. SP305-3.
- Single crystal; X-ray diffraction; Compressibility; 14895. SP305-7.
- Single crystal; X-ray diffraction; High pressure; 11473. SP305-2.
- Single crystal; X-ray diffraction; High pressure; 11474. SP305-2.
- Single crystal; Y<sub>2</sub>O<sub>3</sub>; Dislocations; Etching; 11725. SP305-2.
- Single crystal; Zinc tungstate; Dielectric constant; 1723. SP305-2.
- Single crystal faces of tungsten; Spin-orbit split bands; Tungsten; Electrons; 12049. SP305-3.
- Single crystal GaN; 14N<sup>+</sup> implantation; p-type GaN; Schottky barrier diode; 14938. SP305-7.
- Single crystal graphite; Anisotropy; Magnetic susceptibility; Pyrolytic graphite; 14038. SP305-6.
- Single crystal growth; Color-concentration dependence; Gadolinium monoselenide; Hall effect; Homogeneity range; Magnetic ordering; Reflectivity; Resistivity; SP364, pp. 637-644. SP305-4.
- Single crystal ice; Speed of sound; Thermodynamic properties; Elastic constants; Lattice dynamics; Lattice parameter changes; 9383. SP305.
- Single crystal neutron diffraction; Single crystal x-ray diffraction; Calcium phosphate; Centered hydrogen bonds; Hydrogen bonding; 13874. SP305-6.
- Single crystal planes; Work function; Energy distribution; Field emission; Patch fields; 9423. SP305.
- Single crystal W(100); Surface; Tungsten; Work function; Adsorption; Chemisorption; Desorption; Electron reflection; Electron stimulated desorption; Oxygen; 14443. SP305-6.
- Single crystal x-ray diffraction; Aragonite; Barium calcium carbonate; Calcium carbonate; Crystal structure; J75A No. 3, 197-203 (1971). SP305-3.
- Single crystal x-ray diffraction; Calcium arsenates; Calcium phosphates; Inorganic hydrate; Ion hydration; 13342. SP305-5.
- Single crystal x-ray diffraction; Calcium phosphate; Calcium phosphate-calcium silicate solid solution; Calcium phosphosilicates; Calcium silicates; Crystal structures; Glaserite; Hydroxapatite; 12273. SP305-3.
- Single crystal x-ray diffraction; Cation vacancies; Glaserite; a-Ca<sub>3</sub>(PO<sub>4</sub>)<sub>2</sub>; Calcium magnesium phosphate; 12274. SP305-3.

- Single crystal x-ray diffraction; Calcium carbonates; Carbonates; Crystal structure; *J.75A No. 1, 27-32 (1971). SP305-3.*
- Single crystal x-ray diffraction; Calcium phosphate; Centered hydrogen bonds; Hydrogen bonding; Single crystal neutron diffraction; *13874. SP305-6.*
- Single crystal x-ray diffraction; Calcium phosphate; Calcium phosphate-calcium silicate solid solution; Calcium phosphosilicates; Calcium silicates; Crystal structures; Glaserite; Hydroxypapatite; *11534. SP305-2.*
- Single crystal x-ray diffraction; Study  $\text{Eu}_3\text{Fe}_{1.84}\text{Ga}_{3.06}\text{O}_{12}$ ; *10768. SP305-1.*
- Single crystal x-ray diffraction; Structural relationships; Tetra-calcium phosphate; Twinning; Crystal structure; Hydroxypapatite; *14263. SP305-6.*
- Single crystals; Active potentials; Critical resolved shear stress; Near surface dislocation sources; Passive potentials; *11039. SP305-2.*
- Single crystals; Band assignments; Charge transfer spectra;  $\text{C}_{52}\text{CuCl}_4$ ;  $\text{C}_{52}\text{ZnCl}_4(\text{Cu})$ ; Tetrachlorocuprate ion; *10068. SP305-1.*
- Single crystals;  $\text{CaTiSiO}_5$ ; Crystal growth; Czochralski method; *11260. SP305-2.*
- Single crystals;  $\text{CdGeP}_2$ ;  $\text{CdP}_2$ -Ge system; Ge; Phase diagram; *SP364, pp. 591-595. SP305-4.*
- Single crystals; Cubic potassium antimonate; Flux synthesis; Impurity stabilization; Potassium antimonate; Potassium fluoride-antimony oxide; *14390. SP305-6.*
- Single crystals; Deformational twinning; Dislocations; Hardness test; Lattice friction; Plastic deformation; *14392. SP305-6.*
- Single crystals; Solution growth; Crystal perfection; Diffraction topography; *9670. SP305-1.*
- Single crystals; Stabilization; Tantalum oxide; High temperature polymorph; *J.74A No. 4, 477-484 (1970). SP305-2.*
- Single crystals; Stabilization; Tantalum oxide; Low temperature polymorph; *J.74A No. 4, 485-493 (1970). SP305-2.*
- Single crystals; Strontium titanate; Flux growth; High temperature microscopy; Silica flux; *11099. SP305-2.*
- Single crystals; Sulfuric acid; Titanium; Corrosion; Passivation; *14747. SP305-7.*
- Single crystals; Superalloy; Aluminum; Elastic constants; Elastic moduli; Nickel; *11290. SP305-2.*
- Single crystals; Superstructure;  $\text{Ta}_2\text{O}_5\text{-ZrO}_2$ ; Equilibrium;  $\text{Nb}_2\text{O}_5\text{-ZrO}_2$ ; Ordered defects;  $\alpha\text{-PbO}_2$ -type phase(s); *SP364, pp. 183-195. SP305-4.*
- Single crystals; Surface electron spectroscopy; Surface state; Tungsten; Chemisorption; Field emission; Photoemission; *14982. SP305-7.*
- Single crystals; Surface source; "Debris layer"; Edge dislocation; Near-surface source; Screw dislocation; *11546. SP305-2.*
- Single crystals; Temperature gradient zone melting; Traveling solvent; Calcium molybdate; Crystal growth; Lithium sulfate; *9496. SP305.*
- Single crystals; Tungsten; Electron polarization; Electron scattering; Low energy; Nickel; *15747. SP305-8.*
- Single crystals; X-ray resonators; Monochromators; *10478. SP305-1.*
- Single crystals; Young's modulus; Bulk modulus; Compressibility; Elastic constants; Elasticity Lamé constant; Poisson ratio polycrystals; Shear modulus; *14871. SP305-7.*
- Single crystals; Zone refining; Fermi surface; Magnetoacoustic absorption; Potassium; *9197. SP305.*
- Single diamond cutting of alumina; Abrasion; Chatter vibrations; Forces in grinding; Fracture of alumina grains; Grinding noise; Grinding of alumina; Scratching of glass; *SP348, pp. 73-87. SP305-4.*
- Single electron; Hartree-Fock methods; Oscillator strength; Photoionization; *16378. SP305-8.*
- Single electron double vacancy process; Double electron sing vacancy process; Final state configuration interaction; Krypton;  $\text{M}_{2,3}$  x-ray emission; *13604. SP305-5.*
- Single family attached housing; Steel tube column; Fire endurance; Fire test; Housing system; Multifamily housing; Operation BREAKTHROUGH; *13406. SP305-5.*
- Single family residence; Small scale; Thermal resistance; Wood floor; Wood joint; Fire endurance; Fire test; Flame through; Full scale; Housing; Operation BREAKTHROUGH; *13791. SP305-5.*
- Single glass; Building economics; Capital costs; Human comfort; Human performance; Insulated glass; Operating cost; People costs; *SP361, Vol. 1, pp. 149-159. SP305-4.*
- Single ion; Activity coefficients; Activity scales of high concentrations; Activity standard scales; Chloride activity conversion; Ion activity standards; Ionic activity; Ion selective electrodes; *11859. SP305-3.*
- Single layer coatings; Spark detection; Thin films immersed in liquids; High power ruby laser damage; Multilayer reflector *SP462, pp. 315-330 (Dec. 1976). SP305-8.*
- Single line source; Chemical shifts; Electronic configuration; Internal magnetic fields; Magnetic fields; Magnetic moment ratio; Nickel Mössbauer spectroscopy; Nuclear hyperfine interactions; Quadrupole splitting; *11163. SP305-2.*
- Single particle probability density; Branching; Freezing point; Metastable fluids; Nonlinear operator; Pair correlation function; *15178. SP305-7.*
- Single particle shell model; Eigenvalues; Eigenfunctions; Energy levels; Wave functions; *TN410. SP305.*
- Single phase alloys; Swabbing; Chemical polish; Iron; Low-carbon steel; *13275. SP305-5.*
- Single phase fluid; Thermodynamics; Transposed critical line; Helium; Hydrodynamics; One dimensional flow; *15047. SP305-7.*
- Single pulse shock tube; T-butyl radicals; Thermal decomposition; 1-butene; 1,5 hexadiene; 4-methylpentene-1; 4,4 dimethylpentene-1; Allyl radicals; Allylic resonance energy; *10105. SP305-1.*
- Single pulse shock tube; Thermal decomposition; 1,1,1,1-tetrafluoroethane; 1,1,1-trifluoroethane; Elimination Fluoroethane; Kinetics; *14199. SP305-6.*
- Single pulse shock tube; 3,3-dimethylpentane; 3,4-dimethylpentene-1; 2,3,3-trimethylpentane; Bond energy; Decomposition; Free radicals; Heat of formation; Hydrocarbon; Isobutyl benzene; Pre-exponential factor; Pyrolysis; *11169. SP305-2.*
- Single pulse shock tube; 4-methylpentene-1; Allene; Bond energy; Comparative rate; Gas phase; Heats of formation; Kinetics; Molecular reaction; Propynyl; Pyrolysis; *12832. SP305-4.*
- Single relaxation time; Dielectric constant; Dielectric relaxation time; Dipole moment; Distribution of molecular weights; Distribution of relaxation times; Poly(*n*-butylisocyanate) Rodlike molecule; *11678. SP305-2.*
- Single scatter; Air-scatter; Angular distribution; Energy spectrum; Gamma rays; Neutrons; Point source; Shielding; *9308. SP305.*
- Single scatter; Air-scatter; Buildup factor; Gamma rays; Image source; Interface; Shielding; *10546. SP305-1.*
- Single scatter propagator; Binary collision expansion; Generalized collision integrals; Multiple scattering system; Physical expansion; *11502. SP305-2.*
- Single shear; Tension-bending; Test methods; Airframe fastener; Double shear; Fatigue; *NBSIR 74-465. SP305-6.*
- Single stack plumbing; Criteria for plumbing; Hydraulic test loads; Performance of plumbing; *B5541. SP305-4.*
- Single wall; Fire endurance; Fire test; Housing systems; Interwelling wall; Operation BREAKTHROUGH; *13396. SP305-5.*
- Single-crystal; Structure determination; Twinning; Benzene at High-pressure; *11422. SP305-2.*



ngle-crystal; Triazine; X ray; Diffractometer; Direct methods; Explosives; 15735. SP305-8.

ngle-crystal; X-ray diffraction; High-pressure; Polymorphism; 11180. SP305-2.

ngle-crystal aluminum; Slip bands; Vaporization; Laser-induced stress; Plastic deformation; SP462, pp. 165-180 (Dec. 1976). SP305-8.

ngle-crystal CaF<sub>2</sub>; Calcium fluoride; Elevated-temperature emissivity; Infrared absorption coefficients; Infrared emissivity; Polycrystalline CaF<sub>2</sub>; 9312. SP305.

ngle-crystal elastic coefficients; Young's modulus; Bulk modulus; Compressibility; Elastic constant; Debye temperatures; Iron; Iron alloys; Lamé constants; Nickel; Nickel alloys; Poisson's ratio; *J. Phys. Chem. Ref. Data* 2, No. 3, 531-618 (1973). SP305-6.

ngle-crystal elastic coefficients; Young's modulus; Bulk modulus; Compressibility; Copper; Elastic constants; Poisson's ratio; Shear modulus; *J. Phys. Chem. Ref. Data* 3, No. 4, 897-936 (1974). SP305-6.

ngle-crystal growth; Crystal growth; Crystallization; 10102. SP305-1.

ngle-crystal surface; Surface; Surface finish; Surface profile; Microscope; Microtopography; 12837. SP305-4.

ngle-crystal surface; Surface; Surface finish; Surface profile; Microscope; Microtopography; 14523. SP305-6.

ngle-crystal x-ray diffraction; Calcium sodium carbonate; Crystal structure; Shortite; *J.75A No. 2*, 129-135 (1971). SP305-3.

ngle-edge-notch specimen; Compliance; Crack-toughness; Fracture; *J.74C Nos. 1 and 2*, 20-26 (1970). SP305-2.

ngle-lap joint analysis; Single-lap-joint bending; Spotwelded joints; Weldbonded joints; Adhesive-bonded joints; Bonded joints; Double-lap joint analysis; Finite element analysis; Joining; Joints; *NBSIR 75-957*. SP305-8.

ngle-lap-joint bending; Spotwelded joints; Weldbonded joints; Bonded joints; Computer simulation; Cyclic loading; Debond analysis; Finite element analysis; Joints; Nonlinear analysis; 6147. SP305-8.

ngle-lap-joint bending; Spotwelded joints; Weldbonded joints; Adhesive-bonded joints; Bonded joints; Double-lap joint analysis; Finite element analysis; Joining; Joints; Single-lap joint analysis; *NBSIR 75-957*. SP305-8.

ngle-machine scheduling; Job scheduling; Minimizing maximum lateness; Minimizing total delay; Multitasking scheduling; Scheduling; Scheduling algorithms; 14313. SP305-6.

ngle-phase; Thermodynamic properties; Fluorine; Heats of vaporization; Saturation; 12619. SP305-4.

ngle-quantum; Double-quantum; Elastic scattering; Negative ions; Photodetachment; 10231. SP305-1.

ngle-sideband; Accelerometer; Calibration; Doppler; Interferometer; Laser; Shock measuring; *J.73C Nos. 3 and 4*, 75-78 (1969). SP305-1.

ngle-stack drainage; Siphonage, induced; Siphonage, self; Test loads, hydraulic; Trap-seal reduction detector; Trap-seal retention; Crossflow; Field testing, plumbing; Performance criteria, plumbing; Performance, functional; 13778. SP305-5.

ngle-stage transformer; Two-stage transformer; Voltage ratio; Current ratio; Leakage impedance; Magnetizing impedance; Core error; 14493. SP305-6.

ngle-standard time-length measurement system; Speed of light; Optical frequency; 13119. SP305-5.

ngle; Triplet; Inorganics; Methylene; Radical; Rate constant; 4701. SP305-6.

ngle center peak; X-rays; 10105 steel; Chemical shift; Hyperfine peaks; Mössbauer spectra; Retained austenite; 10873. SP305-2.

ngle emission; Spectrum of pyrazine in benzene; Triplet emission; Vibration spectrum; Fluorescence; Phosphorescence; Pyrazine; 13092. SP305-5.

Singlet oxygen; Air pollution; Chemical kinetics; Chemistry; Gas kinetics; Olefins; 12158. SP305-3.

Singlet oxygen; Air pollution; Kinetics, organic compounds; Rate constant; Reactions; 14343. SP305-6.

Singlet oxygen; O<sub>2</sub>  $\Delta_g$ ; Chemical kinetics; Mass spectrometry; Olefins; Rate constant; 13298. SP305-5.

Singlet-triplet transitions; Spin forbidden transitions; Transition calculations; Asymmetric rotors; Matrix elements; Rotational line intensities; 12313. SP305-3.

Singly charged positive and negative atomic ions; Sublimation energies; Tantalum; Electron affinities; Self-surface ionization; 12747. SP305-4.

Singular integral equation; Wave-guide boundary problem; Analytic function; Cauchy principle value; Hilbert problem for two unknowns; *J. Res. 80B No. 3*, 403-414 (1976). SP305-8.

Singular perturbations; Turning-point; Viscous flow; Weber's equation; Boundary-value problem; Eigenvalues; Parabolic cylinder functions; Resonance; Rotating disks; 16459. SP305-8.

Singular points; Solubility isotherms; Thermal coefficient of solubility; Beta-tricalcium phosphate, preparation; Solubility product, stoichiometry of; Dissolution, thermodynamics of; Ion pairs; *J.78A No. 6*, 667-674 (1974). SP305-6.

Singular value decomposition; Eigenvalues; Independence; Quadratic form; Random variable; *J. Res. 80B No. 3*, 333-335 (1976). SP305-8.

Singular values; Eigenvalues; Linear inequalities; *J. 75B, Nos. 3 and 4*, 117-124 (1971). SP305-3.

Singular values; Matrices; *J.74B No. 4*, 307-309 (1970). SP305-2.

Singularities; Improper integrals; Integrals; Numerical analysis; Numerical integration; Numerical quadrature; Quadrature; Riemann integral; 15180. SP305-7.

Singularities; Pade approximate fluctuations; Opalescence; X-transitions; Critical phenomena; Critical point; Second order phase transition; M273. SP305.

Singularities; Soft x-rays; Alloys; Auger transitions; Density of states; Many-body interactions; Plasmons; *J.74A No. 2*, 273-279 (1970). SP305-2.

Singularities; Soft x-rays; Alloys; Auger transitions; Density of states; Many-body interactions; Plasmons; SP323, pp. 287-293. SP305-4.

Sinks; Abrasives; Bathbaths; Cleansers; Detergents; Particle; Plastic; Plumbing; Porcelain; Sieve; Silica; 10135. SP305-1.

Sintering; Copper; Heat transfer; Helium 3-helium 4; Kapitza resistance; Phonon-electron interaction; Phonon-quasiparticle interaction; Powder; 14749. SP305-7.

Sintering; Surface damage; Abrasive machining; Ceramics; Crack healing; SP348, pp. 233-236. SP305-4.

Sintering; Surface diffusion; Thermo-migration; Copper; Diffusion; Electromigration; Liquid copper diffusion; Nuclear magnetic resonance and diffusion; Pressure effects on diffusion; Self-diffusion; *J. Phys. Chem. Ref. Data* 2, No. 3, 643-656 (1973). SP305-6.

Sinusoidal; Space shuttle; Transducer; Bias pressure; Calibration; Dynamic calibration; Dynamic pressure; High pressure; Liquid medium; Pogo pressure; Pressure source; Pressure transducer; TN927. SP305-8.

Sinusoidal grating diffraction; Spatial spectral density function; Surface roughness; Light scattering; SP414, pp. 163-168. SP305-6.

Sinusoidal modulation; Radiation chopper; 13873. SP305-6.

Sinusoidal potential model; Two-site model; Activation energy; Chain twisting; Hindered rotator; Parabolic potential model; 10451. SP305-1.

Sinusoidal pressure; Calibrator; Dynamic; Hydraulic; InterAgency Transducer Project; Pressure transducer; TN720. SP305-4.

- Sinusoidal pressure; Transducer; Calibration; Dynamic; Liquid column; Pressure; *NBSIR 75-708. SP305-7.*
- Sinusoidal pressure; Transducer; Calibration; Dynamic; Dynamic calibration; Dynamic pressure; Dynamic pressure source; Liquid column; Pressure; Pressure source; Pressure transducer; *TN914. SP305-8.*
- $\text{SiO}_2$ ;  $\text{Al}_2\text{O}_3$ ; Argon ion bombardment; Ceramics; Electron microscopy; Hardness; Ion thinning; *11783. SP305-2.*
- $\text{SiO}_2\text{-B}_2\text{O}_3\text{-Na}_2\text{O}$ ;  $\text{B}_2\text{O}_3\text{-Na}_2\text{O-SiO}_2$ ; Glass; Immiscibility; Melts; Microheterogeneities;  $\text{Na}_2\text{O-B}_2\text{O}_3\text{-SiO}_2$ ; *11585. SP305-2.*
- $\text{SiO}_2(\text{c})$ , soln in  $\text{HF}(\text{aq})$ ; Thermochemistry; Enthalpy of soln,  $\text{SiO}_2$ ; Heat of soln,  $\text{SiO}_2(\text{c})$ ; Quartz, soln in  $\text{HF}(\text{aq})$ ; Reference material, soln calorimetry; *J77A No. 2, 205-215 (1973). SP305-5.*
- Siphonage, induced; Siphonage, self; Test loads, hydraulic; Trap-seal reduction detector; Trap-seal retention; Crossflow; Field testing, plumbing; Performance criteria, plumbing; Performance, functional; Single-stack drainage; *13778. SP305-5.*
- Siphonage, self; Test loads, hydraulic; Trap-seal reduction detector; Trap-seal retention; Crossflow; Field testing, plumbing; Performance criteria, plumbing; Performance, functional; Single-stack drainage; Siphonage, induced; *13778. SP305-5.*
- Sipping; Stability; Stopping distance; Tires; Traction; Tractionizing; *TN566. SP305-3.*
- Siren; Sound power level; Sound pressure level; Automobile; Destructive interference; Directivity; Emergency vehicle; Insertion loss; Masking noise; *14958. SP305-7.*
- Sirens; Speech recognition; Traffic noise; Alarm signals; Hearing; Loudness functions; Masking; *16573. SP305-8.*
- Sirens; Standards; Action; Communication; Conspiracy; Controlled environment; Effectiveness; Flashing lights; Guidelines; Information; Laboratory testing; People; Response; *13516. SP305-5.*
- Sirens; Standards; Emergency warning lights; Police equipment; *NBSIR 73-212. SP305-6.*
- Site model; Calculations; Hydrocarbon crystals; Internal friction; Molecular defects; Pair potentials; *16074. SP305-8.*
- Site model; Mechanical relaxation; Methyl branches; Paraffins; Polyethylene; Potential energy calculations; Relaxation mechanism; Relaxation strength; *15329. SP305-7.*
- Site model; Smoluchowski's equation; Dielectric loss; Relaxation; Single axis rotator; *14646. SP305-6.*
- Site sets; Space groups; Crystallography; Crystal point groups; Crystal structure; Lattice complexes; *Monogr. 134. SP305-5.*
- Site-occupation; Structure; Structure memory; Alpha-phase; Crystallography; Silver iodide; *10322. SP305-1.*
- Six-port; Automatic network analyzer; Microwave; Microwave measurement; *16475. SP305-8.*
- Six-port; Circuit parameters; Networks; *16575. SP305-8.*
- Six-port; Vector voltmeter; Voltage; Attenuation; Microwave; Phase angle; Ratio; Self-calibration; *15665. SP305-7.*
- Six-port; Voltage; Admittance; Current; Impedance; Phase angles; Power; Reflection coefficient; *15800. SP305-8.*
- Six-port coupler; Voltage; Admittance; Current; Directional coupler; Hybrid junction; Impedance; Phase angle; Reflection coefficient; *14378. SP305-6.*
- Six-port junction; Application of six-port junction concept; Automated measurements; Broadband measurements; Microwave measurements; Microwave power measurements; One-port parameters; *16501. SP305-8.*
- Six-port junction; Vector voltmeter; Voltage; Attenuation; Automation; Detector; Insertion loss; Microwaves; Phase angle; Ratio; *15649. SP305-7.*
- Six-ports; Vector voltmeter; Voltage; Admittance; Automated precision measurements; Correlator; Current; Impedance; Microwave circuit parameters; Microwave measurements; Phase angle; Power; Ratio; Reflection coefficient; Reflectometer; Self-calibration; *TN673. SP305-7.*
- Size; Stirling; Claude; Cryogenics; Gifford-McMahon; Helium Joule-Thomson; Liquid; Power; Refrigeration; Simon; *1114. SP305-2.*
- Size designations, boys'; Span charts, boys' sizing; Apparel boys'; Body measurements, boys'; Pattern sizes, boys'; *PS3070. SP305-3.*
- Size designations, girls'; Span charts, girls' sizing; Apparel girls'; Body measurements, girls'; Classifications, girls' size Grading charts, girls' size; *PS54-72. SP305-5.*
- Size designations, women's; Span charts, women's sizing; Apparel, women's; Body measurements, women's; Classifications, women's size; Grading charts, women's size; Pattern size, women's; *PS42-70. SP305-3.*
- Size designations, young men's (students'); Apparel, young men's (students'); Body measurements, young men's (students'); Classification, young men's (students') size Grading charts, young men's (students') size; *PS45-7. SP305-4.*
- Size distribution; Computer analysis of micrographs; Grain size Micrographic analysis; Pictorial analysis; Quantitative microscopy; *11238. SP305-2.*
- Size effect; Copper; Electrical conductivity; Low temperature; *10163. SP305-1.*
- Size rationalization; State and federal laws and regulation. Labeling; Metric system; Packaging; *14628. SP305-6.*
- Sized ice, package quantities of; Block ice, package quantities of; Crushed ice, package quantities of; Cubed ice, package quantities of; Ice, package quantities of; Package quantities of ice; *PS48-71. SP305-3.*
- Size-effect; Statistical nature of strength; Ultrasonic cutting; Weibull distribution; Abrasion; Brittle-ductile transition; Erosion; Fracture location; Ring cracking; Shaping; *SP348, p. 119-131. SP305-4.*
- Sizes; Softwood; Species; Timber; Grades; Lumber; *PS20-7. SP305-2.*
- Sizes, sub-sieve of diamond powder; Diamond powder, grading Grading of diamond powder; Powder, diamond; *PS62-7. SP305-7.*
- Sizing; Capability; Ceramics; Grinding wheels; Selection; Shaping; *SP348, pp. 45-52. SP305-4.*
- $\text{Si}$ ;  $\text{SiH}$ ;  $\text{SiH}_2$ ;  $\text{SiH}_3$ ; Silane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Disilane; Free radical; Infrared spectrum; Matrix isolation; *11647. SP305-2.*
- $\text{Si}_3\text{N}_4$ ;  $\beta$ -cristobalite; Electron microscopy; Oxidation; Silicic nitride; Silicon oxynitride; *15452. SP305-7.*
- Skew; Carbohydrates; Conformations; Coupling constant; Proton resonance; Ribopyranose; *11732. SP305-2.*
- Skew conformations; Standard reference materials; Uric acid; VMA; 'Azobilirubin'; Bilirubin;  $\beta$ -NAD;  $\beta$ -NADH; Cholesterol; Cortisol; D-mannitol; Electron spin resonance; Proton magnetic resonance; *TN547. SP305-2.*
- Skew reflection; Vapor growth; X-ray diffraction microscopy;  $\text{Al}_2\text{O}_3$ ; Berg-Barrett; Single crystal; *13929. SP305-6.*
- Skewness; Surface micromorphology; Surface roughness; Surface texture; Systematic error; Amplitude density function; Arithmetic average; Autocorrelation function; Average wavelength; Kurtosis; Minicomputer software; Random error; *TN902. SP305-8.*
- Skew-symmetric; Anticommuting; Commutator; Factorization; Matrix; Orthogonal; *J78B No. 3, 109-112 (1974). SP305-6.*
- Skew-symmetric; Commutator; Matrix; Orthogonal; *J75B No. 1 and 2, 17-21 (1971). SP305-3.*
- Skew-symmetric; Regular representation; Commutator; Matrix; Orthogonal; Quaternions; *J71B1-196, 43-46 (1967). SP305-6.*
- Skew-symmetry; Combinatorial equivalence; Linear inequalities; Linear programs; Pivot operations; *J78B No. 4, 181-187 (1974). SP305-6.*
- Skewsymmetry; Combinatorial equivalence; Linear inequalities; Linear programs; Pivot operations; *16127. SP305-8.*

d; Tire contact; Tire cord; Tire stress; Tire structure; Tires; Vehicles; Friction; Rubber; *Monogr. 122. SP305-4.*

Id accident reduction; Tire-pavement interface forces; Calibration procedures; Force plate; Pavement skid resistance; *NBSIR 75-738. SP305-7.*

Id testers; Tire construction; Traction; Brakes; Coefficient of friction; *12963. SP305-4.*

n; Apparel fabrics; Fire hazard; Flammability testing; Heat conductivity; Simulation; *NBS-GCR-73-14. SP305-8.*

n; Skin, cutting; Synthetic materials, cutting; Toys; Cut; Edges, hazardous; Experimental studies; Human tolerances; Injury; Injury thresholds; Inspection of edges; Laceration; Safety; Simulation; *NBSIR 73-262. SP305-7.*

n; Thermal burns; Apparel fabrics; Fabrics; Fire hazard; Flammability testing; Simulation; *NBS-GCR-73-13. SP305-8.*

n; Thermal burns; Thermal measurements; Apparel fabrics; Fabrics; Fire hazards; Flammability testing; Ignition; *NBS-GCR-73-6. SP305-8.*

n; Thermal burns; Thermal measurements; Apparel fabrics; Fabrics; Fire hazard; Flammability testing; *NBS-GCR-73-9. SP305-8.*

n; cutting; Synthetic materials, cutting; Toys; Cut; Edges, hazardous; Experimental studies; Human tolerances; Injury; Injury thresholds; Inspection of edges; Laceration; Safety; Simulation; Skin; *NBSIR 73-262. SP305-7.*

n; depth; Attenuation; Clay; Gravel; Measurements; Microwave; *NBSIR 74-381. SP305-7.*

n; effect; Step; Time; Transition; Coaxial; Cylindrical; Error; Line; Loss; Response; *15696. SP305-7.*

n; effect; Step response; System function; Transmission; coefficient algorithms; Expansions; Inverse Laplace transform; Reflectometry; *J.74B No. 3, 155-173 (1970). SP305-7.*

n; effect; Step response; Time domain; Voltage divider; asymptotic expansion; Characteristic impedance; Coaxial line; Complimentary error function; Conductor; Cylindrical; Electric; Error; Generator; Loss; Microminiature; Model; Planar; Propagation function; Poles; *14347. SP305-6.*

n; effect; Thermal conductivity; Aluminum; Impurity; Resistivity; *10821. SP305-1.*

n; effect; Time-domain; Transient; Transmission; Analysis; Tables; Coaxial; *10304. SP305-4.*

n; friction; Subsonic; Supersonic; Transition; Turbulent; Air-oil theory; Boundary layer; Drag; Heat transfer; Laminar; Lift; *12786. SP305-4.*

n; friction near-zero; Turbulence; Turbulent boundary layer; adverse pressure; Boundary layer; Near-separating flow; *10081. SP305-1.*

n; ved tape; TFE-fluorocarbon; Electrical tape, plastic; Plastic tape; Polytetrafluoroethylene; Resin skived tape; *P53-66. SP305.*

n; waves; Absorption; Antennas; Broadcasting; Ground waves; Ionosphere; Medium frequency; Polarization; Propagation; Radio; Reflection coefficients; *9551. SP305-1.*

n; flights; Windows; Daylight gathering; Daylighting of buildings; Energy conservation; Lenses; Light conduits; Light control; Reflectors; *NBSIR 76-1098. SP305-8.*

n; Uncured; Urethane foam; Cellular; Flexible; *PS13-69. SP305-1.*

n; line; Slotted line; Capacitance; Dielectric measurement; *3665. SP305-5.*

n; Slabs; Slate; Standard sizes; Thickness; Tolerances; Blackboards; Dimensions; Natural markings; *P52-66. SP305.*

n; quenched structures; Tempering temperature; Tensile strength; Yield strength; AISI 5140 steel; Hardness; Heat treatment; Reduction of area; *10984. SP305-2.*

n; Clean fuel; Coal; Energy; Gas; Gas turbine; MHD; *14092. SP305-6.*

n; Transfer; Electrical conductivity; *13683. SP305-5.*

Slag; Vaporization; Viscosity; Electrical conductivity; MHD materials; Phase equilibrium; *15510. SP305-7.*

Slant range; Synchronous satellites; Time delay; Satellite timing; *TN638. SP305-5.*

Slat flooring; Flooring; Hardwood flooring; Mosaic-parquet flooring; *P527-70. SP305-2.*

Slate; Standard sizes; Thickness; Tolerances; Blackboards; Dimensions; Natural markings; Slabs; *P52-66. SP305.*

Slater exchange; Vacuum ultraviolet reflectance spectra; Augmented plane wave method (APW); Electron density of states; GeO<sub>2</sub>; Indirect transition; Optical properties; *SP323, pp. 111-113. SP305-4.*

Slater parameters; Energy levels; Hafnium; Ionization energies; *14814. SP305-7.*

Slater-Koster method; Stacking fault; Dislocation-electron interactions; *SP317, pp. 1279-1288. SP305-3.*

Slater-parameters; Sulfur; Vacuum-ultraviolet; Chlorine; Energy levels; Ground configurations; *11013. SP305-2.*

Slave oscillator; Atomic frequency standard; Cesium beam; Figure of merit; Frequency accuracy; Frequency multiplier; Frequency precision; NBS-III; NBS-5; Phase noise; Quartz crystal oscillator; Ramsey cavity; *11959. SP305-3.*

Slave oscillators; Accurate frequency standards; Accurate length standards; Accurate time standards; Accurate voltage standards; Ion storage; Laser stabilization; Maser oscillator; Metrology; Quantum electronics; Saturated absorption; *12099. SP305-3.*

Slave oscillators; Quantum electronics; Ion storage; Laser stabilization; Maser oscillator; Metrology; Saturated absorption; *12068. SP305-3.*

Sled tests; Webbing abrasion; Webbing degradation; Anthropomorphic dummies; Auto seat tests; Deceleration; Human kinematics; Human tests; Restraint geometry; Restraint systems; Seat belt; *11850. SP305-3.*

Sleepwear; Standards; Accidents; Children; Clothing; Fabrics; Flammability; *14291. SP305-6.*

Sleepwear; Standards; Statistics; Accidents; Burns; Children; Clothing fires; Deaths; FFACFS; Fire; Flammable fabrics; Injury; *TN810. SP305-5.*

Sleepwear; Standards; United States; Blankets; Canada; Carpets; Clothing; Fabric flammability testing; Fabrics; Flammable Fabrics Act; Hazardous Products Act; Mattresses; *TN742. SP305-4.*

Sleepwear; Standards; Upholstered furniture; Cigarettes; Education; Fabric; Fire; Flammability; Hazard; Ignition source; Kitchen ranges; Matches; Mattresses; *SP411, pp. 1-4. SP305-6.*

Sleepwear; Standards development; Statistics; Children; Flammable fabrics; *SP411. SP305-6.*

Sleepwear; Standards development; Statistics; Children; Flammable fabrics; *SP411, pp. 5-16. SP305-6.*

Slenderness; Strength; Structural analysis; Walls; Axial load (force); Bending moment; Building codes; End-fixity; Reinforced concrete; *11933. SP305-3.*

Slenderness effect; Structural stability; Buckling; Compressive strength; Concrete block walls; Elastic stability; Flexural strength; Masonry walls; Reinforced concrete masonry walls; *B5533. SP305-2.*

Slenderness effects; Standards; Structural stability; Walls; Brick; Cavity walls; Composite walls; Compressive strength; Concrete block; Flexural strength; Masonry; Mortar; *B5534. SP305-3.*

Slenderness effects; Structural stability; Brick walls; Combined loading; Compressive strength; Flexural strength; High bond mortar; Masonry walls; Moment magnifier effect; *12869. SP305-4.*

Slenderness ratio; Stability; Structural engineering; Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry; Moments; *12227. SP305-3.*

- Slenderness ratio; Stability; Structural engineering; Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry; Moments; 15507. **SP305-7.**
- Slenderness ratio; Standards; Stiffness; Structural stability; Walls; Brick; Buckling; Composite walls; Compressive strength; Concrete block; Constitutive relations; Flexural strength; Masonry; Masonry walls; Mortar; B5573. **SP305-8.**
- Slenderness ratio; Strength; Structural analysis; Structural design; Ultimate strength; Bending moments; Building codes; Column (supports); Frames; Long columns; Reinforced concrete; 16412. **SP305-8.**
- Slideback; Standard; Oscilloscope; Peak voltage; Pulse; Sampling; 9972. **SP305-1.**
- Slides; Avalanches; Earthquakes; Falls; Flows; Landslides; Mechanisms; SP444, pp. III-52—III-71 (Apr. 1976). **SP305-8.**
- Slides; Films; Negatives; Paper; Photographs; Preservation of records; Prints; Records; Repair of records; Storage of records; C155. **SP305-4.**
- Slides, safety of; Swing sets, safety of; Home playground equipment, safety of; Jungle gyms, safety of; Playground equipment, safety of; Safety of home playground equipment; P566-75. **SP305-8.**
- Sliding circuit; Current density; Electric current; Electromagnetic field; Lorentz Transformation; 11765. **SP305-2.**
- Sliding short; Adaptor; Connector; Efficiency; J75C Nos. 3 and 4, 173-180 (1971). **SP305-3.**
- Sliding short; Coaxial cavity tuning; Coaxial short; Precision transmission line; Reflection coefficient; 11307. **SP305-2.**
- Sliding short; Shorted termination; Waveguide; Microwave; Reflection coefficient; Return loss; TN602. **SP305-3.**
- Sliding short; Two-port; Efficiency; Loss; Reflectometer; TN644. **SP305-5.**
- Sliding spark discharge lamp; Spectrum; Atomic energy levels; Isoelectronic sequence; Praseodymium; Rare earth; J71A6-474, 583-585 (1967). **SP305.**
- Sliding spark discharge lamp; Spectrum; Uranium; Actinide; Atomic energy levels; Isoelectronic sequence; Protactinium; Rare earth; 15990. **SP305-8.**
- Sliding termination; Standards; Calibration; 14883. **SP305-7.**
- Sliding wear; Coatings, metallic; Metallic coatings; SP452, pp. 84-93 (Sept. 1976). **SP305-8.**
- Slightly polar liquids; Tait equation; Toluene; Carbon disulfide; Carbon tetrachloride; Clausius-Mossotti; Density; Dielectric constant; Dipole moment; Isopentane; Polarizability pressure; 11066. **SP305-2.**
- Slings, cargo; Terminations, rope; Weathering, simulated; Aramid fiber rope; Breaking load, rope; Cable, aramid-fiber; End fittings, rope; Fatigue damage; Rope, aramid-fiber; NBSIR 76-1159. **SP305-8.**
- Slip; Transmission electron microscopy; Twinning; Aluminum oxide; Microhardness; Plastic deformation; 15825. **SP305-8.**
- Slip bands; Dislocation velocity; High speed dislocations; Impact stress pulse; Piezoelectric stress gauge; Quartz; SP336, pp. 487-508. **SP305-3.**
- Slip bands; Vaporization; Laser-induced stress; Plastic deformation; Single-crystal aluminum; SP462, pp. 165-180 (Dec. 1976). **SP305-8.**
- Slip resistance; Static charge; Test methods; Water resistance; Wear; Carpets; Cleanability; Conducting; Durability; Flooring; Identification; Resiliency; SP361, Vol. 1, pp. 799-806. **SP305-4.**
- Slip tests; Coefficient of friction; Human perambulation; Floor slipperiness; Resilient flooring; Slipperiness standards; Frictional tests; NBSIR 74-613. **SP305-7.**
- Slipperiness standards; Frictional tests; Slip tests; Coefficient of friction; Human perambulation; Floor slipperiness; Resilient flooring; NBSIR 74-613. **SP305-7.**
- Slipperiness tester; Static coefficient of friction measurement; Floor slipperiness; U.S. Patent 3,975,940. **SP305-8.**
- Slip-resistance; Slip-resistance testers; Walking friction; Building safety; Floor surface friction; Occupancy safety; TN89. **SP305-8.**
- Slip-resistance testers; Walking friction; Building safety; Floor surface friction; Occupancy safety; Slip-resistance; TN89. **SP305-8.**
- Slit correction; Slit weighting-function; Small-angle x-ray scattering; Strong numerical instability; Conditions for convergence of solutions; Integral equation of first kind; Shifting operators; J75B, Nos. 3 and 4, 187-207 (1971). **SP305-3.**
- Slit correction; Small-angle x-ray scattering; Distribution of intensity; Integral equation; Scattering cross section; J70A 419, 467-471 (1966). **SP305.**
- Slit function; Slit width-resonance width ratio; Systematic errors; Beutler-Fano resonance profiles; Least squares analysis; Parameter correlation; Random errors; 11578. **SP305-2.**
- Slit imagery; Transfer function; Impulse response; Line microdensitometry; Microdensitometry; Optics; 1532. **SP305-7.**
- Slit weighting-function; Small-angle x-ray scattering; Strong numerical instability; Conditions for convergence of solution; Integral equation of first kind; Shifting operators; Slit correction; J75B, Nos. 3 and 4, 187-207 (1971). **SP305-3.**
- Slit width; Spectral transmission; Spectrophotometer standards; Stray light; Wavelength scale; Errors in spectrophotometry; Photometric scale; J. Res. 80A No. 4, 625-630 (1976). **SP305-8.**
- Slit width-resonance width ratio; Systematic errors; Beutler-Fano resonance profiles; Least squares analysis; Parameter correlation; Random errors; Slit function; 11578. **SP305-2.**
- Slope estimators; Third law heat; Vapor pressure; Bias of least squares estimators; Coefficient of variation; Correlated estimators; Enthalpy adjustments; Heat of vaporization; High temperature chemistry; J70A6-424, 533-539, (1966). **SP30.**
- Slope of grain; Strength criteria; Strength ratio; Strength-reducing characteristics; Structural; Defective material; Design criteria; Design stresses; Glued-laminated timber; Kno Lamination; Lumber grades; Prestressed wood; SP361, Vol. 1, pp. 625-632. **SP305-4.**
- Slope of the coexistence curve diameter; Asymmetry; Coexistence curve; Compressibility; Critical exponents; Critical point; Decorated lattice gas; Hole-particle symmetry; Law corresponding states; Liquid; Padé approximant; Power law; 15293. **SP305-7.**
- Slotted line; Bandwidth; Diode; Impedance; Sampling; NBS 73-330. **SP305-6.**
- Slotted line; Capacitance; Dielectric measurement; Slab line; 13665. **SP305-5.**
- Slotted lines; Survey of automatic techniques; Swept frequency measurements; Wheatstone Bridge; Automatic network analyzers; Computer-controlled measurement; Magic T; Microwave measurement methods; Multiple probe devices; Reflectometers; Rotating probe devices; Monogr. 1, **SP305-8.**
- Slotted-sphere antenna; Antenna; Compressible plasma; Plasma; 10249. **SP305-1.**
- Slow crack growth; Acoustic emission; Failure prediction; Fracture propagation; Fracture mechanics; 14288. **SP305-6.**
- Slow crack growth; Acoustic emission; Crack propagation; Cyclic conditions; Failure times; High temperatures; Silicon nitride; 16064. **SP305-8.**
- Slow crack growth; Acoustical emission; Fracture mechanics; Mortars; Polymer impregnated mortars; 16360. **SP305-8.**
- Slow crack growth; Analytical predictions; Constant stress rate; Empirical measurements; Fracture stress; 16034. **SP305-8.**
- Slow crack growth; Elevated temperatures; Failure prediction; Silicon nitride; 14278. **SP305-6.**
- Slow crack growth; Strength degradation; Sustained load; Fracture probability; 15125. **SP305-7.**



crack growth; Tension/compression; Time to failure; Ceramics; Cyclic failure; Relation to static failure; 13920. SP305-6.

crack growth; Thermal activation; Ambient temperatures; Dislocation mechanisms; Fracture mechanics; Sapphire; 5122. SP305-7.

crack growth; Unloading; Failure probabilities; Lifetime assurance; Proof testing; 16039. SP305-8.

crack growth enstatite; Cristobalite; Deformation; Electron microscopy; Microstructure; Oxidation; Silicon nitride; *NBSIR 76-1153*. SP305-8.

electronics; Atomic levels; Electron impulse; Mean lives; 850. SP305-1.

electronics; Electrons; Electron spin; Modular rotation; Ionvanishing electron spin; Rotational excitation; 9737. SP305-1.

fluctuations; Auroral absorption; Conjugate points; Cosmic noise; Ionospheric absorption; 9633. SP305-1.

melting; Stark rubber; Crystal size; Crystallized rubber; Heating rate; Melting range; Melting temperature; Oriented; Partial melting; Recrystallization; Rubber; 11436. SP305-2.

crack growth; Stress corrosion; Fracture; Lattice trapping; 5155. SP305-8.

wing down; Doppler broadening; Neutron; Resonances; 0481. SP305-1.

wing down density; Cross sections; Epithermal energy; Group averaging; Neutron; Reactor spectrum; Scattering; 0511. SP305-1.

wing-down; Stochastic; Transport; Benchmark; Cross section; Eigenvalue; Monte Carlo; Multigroup; Reactor; Resonance; *SP425*, pp. 451-454. SP305-7.

wing-down spectra; Energy deposition spectra; Fast neutrons; Initial spectra; Microdosimetric parameters; Nuclear data; 15950. SP305-8.

w-wave; Traveling-wave; Cathode ray tube; CRT; Deflection; Electron beam; GHz; Oscilloscope; Picosecond; 12566. SP305-4.

ry flow; Slush; Hydrogen; Cryogenic; Flow restrictions; Friction angle; Gel; Liquid-solid mixtures; Particle size; Plug flow; *TN377*. SP305-1.

ry flow; Slush hydrogen; Cryogenic pump; Densitometer; Liquid-solid mixtures; Rocket propellant; 12622. SP305-4.

ry flow; Slush hydrogen; Solid hydrogen; Flow restrictions; Liquid hydrogen; Liquid-solid mixtures; Plug flow; 11778. SP305-2.

sh; Hydrogen; Cryogenic; Flow restrictions; Friction angle; Gel; Liquid-solid mixtures; Particle size; Plug flow; Slurry flow; *TN377*. SP305-1.

sh; Hydrogen density; Tire groove insert; Tire regrooving; Waveguide, precision fabrication; Waveguide, adjustable width; Weathering test; Wheel-shaft angle, shifting during rotation; Wind vane, damped; Accelerated weathering test; *N536*. SP305-2.

sh hydrogen; Boiling heat transfer; Convective heat transfer; Heat transfer; Liquid hydrogen; 14869. SP305-7.

sh hydrogen; Cavitation; Centrifugal pump; Cryogenic pump; Liquid-solid hydrogen mixtures; *TN364*. SP305-1.

sh hydrogen; Cavitation; Centrifugal pumps; Cryogenic pump; Liquid-solid hydrogen mixtures; 11280. SP305-2.

sh hydrogen; Cryogenic pump; Densitometer; Liquid-solid mixtures; Rocket propellant; Slurry flow; 12622. SP305-4.

sh hydrogen; Densitometer; Density reference system; Liquid hydrogen; Nuclear radiation attenuation; 10804. SP305-1.

sh hydrogen; Density; Flow; Hydrogen; Instrumentation; 2687. SP305-4.

Slush hydrogen; Liquid-solid hydrogen mixtures; Quality determination; Rocket propellant; *10336*. SP305-1.

Slush hydrogen; Slush hydrogen gels; Slush nitrogen gels; Gels; Liquid hydrogen gels; Liquid nitrogen gels; Liquid-solid hydrogen mixtures; Rocket propellants; 11733. SP305-2.

Slush hydrogen; Solid hydrogen; Flow restrictions; Liquid hydrogen; Liquid-solid mixtures; Plug flow; Slurry flow; 11778. SP305-2.

Slush hydrogen; Superconducting; A.c. power; Cryoresistive; Energy transmission economics; Helium; Hydrogen energy; Liquid hydrogen; Liquid nitrogen; Power transmission cables; Safety; 16629. SP305-8.

Slush hydrogen; Turbine mixers; Heat transfer; Liquid hydrogen; Mixing; Mixing power; Paddle mixers; *NBSIR 73-344*. SP305-6.

Slush hydrogen gels; Slush nitrogen gels; Gels; Liquid hydrogen gels; Liquid nitrogen gels; Liquid-solid hydrogen mixtures; Rocket propellants; *TN378*. SP305-1.

Slush hydrogen gels; Slush nitrogen gels; Gels; Liquid hydrogen gels; Liquid nitrogen gels; Liquid-solid hydrogen mixtures; Rocket propellants; Slush hydrogen; *TN378*. SP305-1.

Slush hydrogen gels; Slush nitrogen gels; Gels; Liquid hydrogen gels; Liquid nitrogen gels; Liquid-solid hydrogen mixtures; Rocket propellants; Slush hydrogen; 11733. SP305-2.

Slush methane; Slush natural gas; Binary mixtures; Cryogenic mixtures; Liquefied natural gas; Methane; 13005. SP305-4.

Slush natural gas; Binary mixtures; Cryogenic mixtures; Liquefied natural gas; Methane; Slush methane; 13005. SP305-4.

Slush nitrogen gels; Gels; Liquid hydrogen gels; Liquid nitrogen gels; Liquid-solid hydrogen mixtures; Rocket propellants; Slush hydrogen; *TN378*. SP305-1.

Slush nitrogen gels; Gels; Liquid hydrogen gels; Liquid nitrogen gels; Liquid-solid hydrogen mixtures; Rocket propellants; Slush hydrogen; 11733. SP305-2.

SMA connectors; Coaxial connectors; Connectors; RF connectors; 16476. SP305-8.

Small angle; Bragg's equation; Co; Cr; Ci; Fe; K $\alpha$  radiation; *TN461*. SP305-1.

Small angle x-ray scattering; Correlation function; Critical phenomena; Critical scattering; Scattered intensity; 9593. SP305-1.

Small angle x-ray scattering; Hard sphere fluid; Liquids; Radial distribution function; 12485. SP305-4.

Small angles; U; Fast neutrons; Pb; Scattering; *SP425*, pp. 948-949. SP305-7.

Small attenuation changes; Two-channel; Attenuation; Microwave; Off-null technique; 11410. SP305-2.

Small attenuation measurement; Small insertion loss measurement; Small reflection coefficient measurements; Stainless steel waveguide; Comparison of results; De potentiometer test set; Dual channel system; Modulated subcarrier; Ratio transformer test set; 11917. SP305-3.

Small business; Consulting services; Contract R&D; Government contracts; Innovation; Invention; Proposal writing; R&D; 14700. SP305-6.

Small business; Small Business Administration; Technological change; Experimental Technology Incentives Program; Federal policies; Innovation loans; R&D; *NBS-GCR-ETIP 76-11*. SP305-8.

Small Business Administration; Technological change; Experimental Technology Incentives Program; Federal policies; Innovation loans; R&D; Small business; *NBS-GCR-ETIP 76-11*. SP305-8.

Small business policy; Technology; Civilian R&D policy; ETIP; Incentives; Innovation; Procurement policy; Regulatory policy; *NBSIR 75-778*. SP305-7.

Small carpets and rugs; Standards; Test development; Annual report to Congress; Blankets; Carpets and rugs; Children's

- sleepwear; Cooperation; Flammability; Flammability reduction; Mattresses; Research; *TN596*. **SP305-3.**
- Small company R&D; Government contracts; Government laboratories; In-house research; Patent rights; *14610*. **SP305-6.**
- Small firm finances; Technological change; Technology subsidies; Venture capital; Capital market imperfections; Federal technology policy; SBIC's; Securities and tax regulation; *NBS-GCR-ETIP 76-08*. **SP305-8.**
- Small firm finances; Technological change; Technology subsidies; Venture capital; Capital market imperfections; Federal technology policy; SBIC's; Securities and tax regulation; *NBS-GCR-ETIP 76-12*. **SP305-8.**
- Small furnace test; Smoke; Aluminum bulkhead; Combustion gases; Fire endurance; Insulation; Intumescent paint; Potential heat; Reinforced plastic; *NBSIR 76-1012*. **SP305-8.**
- Small information groups; Chemical literature; Documentation services; Remarks; *9779*. **SP305-1.**
- Small insertion loss measurement; Small reflection coefficient measurements; Stainless steel waveguide; Comparison of results; Dc potentiometer test set; Dual channel system; Modulated subcarrier; Ratio transformer test set; Small attenuation measurement; *11917*. **SP305-3.**
- Small molecules; Ultraviolet monochromator; Windowless vacuum; Mass spectrometer; Mass spectrometric study; Photoionization of small molecules; *9676*. **SP305-1.**
- Small particles; Two dimensional classical membrane; Diffusion equation; Electronic density of states; "muffin-tin" potential; *SP323*, pp. 473-475. **SP305-4.**
- Small protection domains; Types; Capability; Capability-based addressing; Computer security; Extended-type objects; Operating system structures; Protection; Reliable software; Reliability; Security; *TN919*. **SP305-8.**
- Small reflection coefficient measurements; Stainless steel waveguide; Comparison of results; Dc potentiometer test set; Dual channel system; Modulated subcarrier; Ratio transformer test set; Small attenuation measurement; Small insertion loss measurement; *11917*. **SP305-3.**
- Small scale; Thermal resistance; Wood floor; Wood joist; Fire endurance; Fire test; Flame through; Full scale; Housing; Operation **BREAKTHROUGH**; Single family residence; *13790*. **SP305-5.**
- Small spacing; Spreading resistance; Accuracy; Bevelled structures; Correction application; Correction factors; Edge effect; Profiles; Resistivity profiling; *SP400-10*, pp. 51-61. **SP305-6.**
- Small specimens; Density measurement; Hydrostatic; Precision; *12595*. **SP305-4.**
- Small-angle limit; Twice-scattered; Angular distribution; Gamma radiation; Logarithmic divergences; Point isotropic; *9955*. **SP305-1.**
- Small-angle x-ray scattering; Distribution of intensity; Integral equation; Scattering cross section; Slit correction; *J.70A6-419*, 467-471 (1966). **SP305.**
- Small-angle x-ray scattering; Strong numerical instability; Conditions for convergence of solutions; Integral equation of first kind; Shifting operators; Slit correction; Slit weighting-function; *J.75B*, Nos. 3 and 4, 187-207 (1971). **SP305-3.**
- Small-bore tubes; Standard hole; Wringing; Capacitance probe; Cylindrical gauge blocks; Inside diameters; *12277*. **SP305-3.**
- Small-ring molecule; Stark effect; Dipole moment; Microwave spectrum; Molecular structure; Silacyclopentane; *16046*. **SP305-8.**
- s-matrix; Continuum shell model; Nuclear reactions; Nuclear structure; Photonic nuclear reactions; *13248*. **SP305-5.**
- S-matrix eigenstates; Nuclear continuum states; Nuclear reactions; Nuclear scattering; Scattering matrix; Shell model; *9658*. **SP305-1.**
- Smectic crystals; Cholesteric crystals; Faulted ribbon; Liquid crystals; Nematic crystals; *SP317*, pp. 607-636. **SP305-3.**
- Smectic polypropylene; Spherulitic polypropylene; Crazing; Cryogenic temperatures; Crystalline polymers; Environment effects on crazing; Fractional free volume; Glass transition temperature; *15772*. **SP305-8.**
- Smith normal form; Designs; Incidence matrices; Invariant factors; *12338*. **SP305-3.**
- Smith normal form; Determinantal divisors; Equivalence; Matrix equation; Partitioned matrix; *J. Res.* **80B** No. 1, 898 (1976). **SP305-8.**
- Smith normal form; Elementary divisors; Invariant factors; Partitioned matrices; *J.78B* No. 1, 3-6 (1974). **SP305-6.**
- Smith normal form; Invariant factors; Principal ideal ring; *J.75B* Nos. 1 and 2, 81-84 (1971). **SP305-3.**
- Smith-Palmer equation; Thermal conductivity; Copper-bulk alloy properties; Electrical resistivity; *NBSIR 76-106*. **SP305-8.**
- Smoke; ABS; DWV; Fire endurance; Fire spread; Fire tests; Gases; Plastic pipe plumbing; PVC; *BSS72*. **SP305-7.**
- Smoke; Aluminum bulkhead; Combustion gases; Fire endurance; Insulation; Intumescent paint; Potential heat; Reinforced plastic; Small furnace test; *NBSIR 76-1012*. **SP305-8.**
- Smoke; Bibliography of test methods; Burning; Burning rate; Combustion; Fire; Fire retardant; Flame; Flame spread; Gases; Ignition; *TN498-2*. **SP305-2.**
- Smoke; Building; Estimating; Fire; Furniture; Hazard; Interior finish; *16123*. **SP305-8.**
- Smoke; Buildings; Fire growth; Flame spread; Heat release; Interior finish; Reduced scale modeling; Room corner tests; *16183*. **SP305-8.**
- Smoke; Carbon monoxide; Electrostatic precipitation; Particle mass; Scanning electron microscope; *SP411*, pp. 16177. **SP305-6.**
- Smoke; Carbon monoxide; Electrostatic precipitation; Heat flux; Oxygen depletion; Particulate mass; Scanning electron microscope; *NBSIR 75-901*. **SP305-7.**
- Smoke; Dibromotetrafluoroethane; Fire tests; Flame spread index; Heat release rate; Ignition temperature; Rigid urethane foam; *NBSIR 74-456*. **SP305-6.**
- Smoke; Dibromotetrafluoroethane; Fire tests; Flame spread index; Heat release rate; Ignition temperature; Rigid urethane foam; *15615*. **SP305-7.**
- Smoke; Smoke and flame spread; Temperature; With and without forced air; Velocity; Carpets with and without underlayment; Corridor fires; Energy models; Finished interior; Full scale experiments; Interaction; Measurements; *152*. **SP305-7.**
- Smoke; Smoke density; Visual obscuration; Aerosol; Combustion; Fire hazard; Pyrolysis; *10353*. **SP305-1.**
- Smoke; Smoke density chamber; Smoke potential; Test methods; Visibility; Building materials; Fire; Fire services; *TN7*. **SP305-5.**
- Smoke; Smoke density chamber; Smoke suppressants; Fire performance; Horizontal and vertical smoke measurements; *16178*. **SP305-8.**
- Smoke; Smoke density chamber; Statistical analysis; Building materials; Fire tests; Interlaboratory tests; Optical density; Round robin; *TN708*. **SP305-3.**
- Smoke; Smoldering; Upholstery fabric; Cotton; Cushions; Fire retardant; Furniture; Glowing; Inhibitor; Oxidative pyrolysis; Oxygen index; Rayon; *16224*. **SP305-8.**
- Smoke; Specific optical density; Toxic gases; Toxicity; Combustion; Polymer; Pyrolysis; *SP411*, pp. 105-124. **SP305-6.**
- Smoke; Temperature; Toxicity; Upholstery; Bedding; Beds; Carbon dioxide; Carbon monoxide; Combustion products; Fire hazards; Furniture; Life hazard; Oxygen; *NBS-GCR-73-1*. **SP305-8.**
- Smoke; Temperature; Vent pipe; Waste pipe; ABS, building drains; Fire spread; Pipe chase; *14227*. **SP305-6.**
- Smoke; Thermal decomposition; HCl; He-Ne laser; Poly(vinyl chloride); Pyrolysis; *13650*. **SP305-5.**

ke; Thermal degradation; Toxic gases; Aircraft materials; Combustion products; Fire tests; Interior finish; 10750. SP305-1.

ke; Thermal radiation; Upholstery; Waste receptacle; Buildings; Combustibility; Fire intensity; Flames; Furnishings; Heat release; Ignition; *NBSIR 75-679. SP305-7.*

ke; Toxic gases; Aircraft materials; Combustion products; Fire tests; Interior finish; *BSS18. SP305-1.*

ke; Toxic gases; Fire retardant; Fire test; Heat release ignition; Mattress; *NBSIR 73-177. SP305-7.*

ke; Toxic gases; Vent; Waste; ABS; Cast iron; Copper; Rain; Fire endurance; Fire spread; Fire test; Operation REAKTHROUGH; Plastic pipe; PVC; *NBSIR 74-449. SP305-7.*

ke; Transportation; Urethane; Flame spread; Flammability; Full-scale fire tests; Laboratory fire tests; Metrorail cars; Polypropylene; *NBSIR 75-971. SP305-8.*

ke; Upholstery; Waste receptacle; Wood crib; Buildings; Fire intensity; Flame spread; Flames; Furnishings; Heat release; Interior linings; Material ignitability; Room fires; *7411, 125-138. SP305-6.*

ke; Venting; Buildings; Cellulosics; Fires; Polymers; 13677. SP305-5.

ke; Wood crib; Buildings; Fire growth; Flame spread; Heat release; Interior linings; Material ignitability; Performance criteria; Room fires; *TN846. SP305-6.*

ke; Wood crib; Buildings; Fire growth; Flame spread; Heat release; Interior linings; Material ignitability; Performance criteria; Room fires; *TN879. SP305-7.*

ke abatement; Sprinkler system; Construction; Corridor fire; Fire endurance furnace; Fire growth; Heat release; *14150. SP305-8.*

ke and flame spread; Temperature; With and without forced air; Velocity; Carpets with and without underlayment; Corridor fires; Energy models; Finished interior; Full scale experiments; Interaction; Measurements; Smoke; 1230. SP305-7.

ke and gas fatalities; Waster; Water; Computer vote; Cost-sharing; Cryogenic data; Earthquake; Energy; Grain alcohol; Measurement science; Pollution; Screw threads; *DIM/NBS 60, No. 12, 265-288 (1974). SP305-6.*

ke control; Building fires; Design; Evacuation; Fire alarms; Fire protection; Fire resistance; Fire safety; Fire spread; Fire statistics; Fire suppression; High rise buildings; Ignition source; Life safety; Refuge areas; 14229. SP305-6.

ke control; Smoke movement simulation; Smokeproof window; High-rise buildings; Photoelectric smoke detector; *BSSIR 75-701. SP305-7.*

ke control; Smoke simulation; Analysis; Basic correlation formulas; Computer calculations; High-rise building fire; Operation BREAKTHROUGH; Pressurized stairwell; Quantitative experiment; 13795. SP305-5.

ke density; Time to ignition; Fire performance tests; Flame spread; Heat input; Heat release rate; Limiting oxygen index; Radiant panel; 16136. SP305-8.

ke density; Visual obscuration; Aerosol; Combustion; Fire hazard; Pyrolysis; Smoke; 10353. SP305-1.

ke density chamber; Smoke potential; Test method; Visibility; Building materials; Fire; Fire services; Smoke; *TN757. SP305-5.*

ke density chamber; Smoke suppressants; Fire performance; Horizontal and vertical smoke measurements; Smoke; 16178. SP305-8.

ke density chamber; Smoke tests; Test comparison; UK; SA; Fire propagation test; Fire tests; 16125. SP305-8.

ke density chamber; Statistical analysis; Building materials; Fire tests; Interlaboratory tests; Optical density; Round robin; Smoke; *TN708. SP305-3.*

Smoke detection; Automatic sprinklers; Carbon dioxide; Fire detection; Fire extinguishment; Flame detection; Heat detection; *NBSIR 76-1028. SP305-8.*

Smoke detector; Aerosol sizing; Aerosol spectrometer; Chemical characterization of particles; Fire produced particles; Laser light scattering by aerosols; Particle size measurements; Particulates; Refractive index; *SP412, pp. 21-32. SP305-6.*

Smoke detector; Surface flame spread; Corridor fire test; Interior finish material; Intumescent coating; Life safety; Mobile home; *NBSIR 76-1021. SP305-8.*

Smoke detector installation; Smoke detector placement; Smoke detectors; Detector sensitivity; Fire detectors; Mobile homes; Photoelectric smoke detectors; *NBSIR 76-1016. SP305-8.*

Smoke detector placement; Smoke detectors; Detector sensitivity; Fire detectors; Mobile homes; Photoelectric smoke detectors; Smoke detector installation; *NBSIR 76-1016. SP305-8.*

Smoke detectors; Atriums; Fire detection; Flame detectors; Heat detectors; Hospitals; Hotels; Maintenance; Nursing homes; Reliability; Schools; 16179. SP305-8.

Smoke detectors; Detector sensitivity; Fire detectors; Mobile homes; Photoelectric smoke detectors; Smoke detector installation; Smoke detector placement; *NBSIR 76-1016. SP305-8.*

Smoke detectors; Detector sensitivity; Detector siting; Escape time; Fire tests; Heat detectors; Residential fires; *NBSIR 76-1126. SP305-8.*

Smoke detectors; Fire detection; Light extinction; Light scatter; Light-scatter measurements; Photoelectric smoke detectors; *NBSIR 76-1087. SP305-8.*

Smoke detectors; Standards; Alarm communications; False alarms; Fire alarms; Fire detectors; Risk benefit; *SP411, pp. 195-200. SP305-6.*

Smoke detectors; Taguchi gas sensors; Fire detectors; Ionization chamber smoke detectors; Photoelectric smoke detectors; *NBSIR 75-700. SP305-7.*

Smoke detectors; Taguchi gas sensors; Detectors; Fire detectors; Gas detectors; *NBSIR 76-990. SP305-8.*

Smoke detectors; Teaching metric; Cryogenic fluid; Door locks; Energy; EPIC supplement; High winds; Home security; Non-destructive evaluation; Research associate program; School systems; *DIM/NBS 60, No. 4, 1-24 (1976). SP305-8.*

Smoke detectors; Tenability levels; Detector sensitivity; Detector siting; Heat detectors; Ionization smoke detectors; Photoelectric smoke detectors; Residential fires; *NBS-GCR-75-51. SP305-8.*

Smoke detectors; Test methods; Aerosols; Ionization chambers; Light attenuation; Scattered light; *NBSIR 76-1037. SP305-8.*

Smoke detectors; Testing; Ultraviolet detectors; Detection; Fire detectors; Flame detectors; Heat detectors; Infrared detectors; *NBSIR 76-1040. SP305-8.*

Smoke detectors; United States standards; Fire detection; Regulations; 16187. SP305-8.

Smoke development; Sprinklers; Survey; Building construction; Detectors; Flame spread; Furnishings; Interior finishes; Non-combustible; *TN861. SP305-7.*

Smoke generation; Surface flammability; Fire hazard properties; Gaseous combustion products; Interior covering systems; Interior finishes; 14607. SP305-6.

Smoke generation; Toxic combustion products; Toxicity; Washability; Water vapor permeance; Abrasion; Adhesion; Colorfastness; Covering; Materials; Flash point; Flame spread; Impact resistance; Lead paint poisoning; Materials; Performance; *TN808. SP305-5.*

Smoke generation; Wall and ceiling; Carpets; Flame spread; Kitchen cabinets; Operation BREAKTHROUGH; 13609. SP305-5.

Smoke inhalation; Standards; Breathing apparatus; Closed loop breathing apparatus; Equipment design; Fire fighters; Fire

- fighting; Fire fighting equipment; Fire gases; Open loop breathing apparatus; Protective clothing; *NBS-GCR-73-10*. SP305-8.
- Smoke measurement; Tunnel test; ASTM E84; Building materials; Carpets; Fire tests; Flame spread tests; Floor coverings; Interlaboratory evaluation; 15267. SP305-7.
- Smoke movement; Building design; Dampers; Ducts; Fire control; Fire spread; 12347. SP305-3.
- Smoke movement; Smoke simulation; Sulfur hexa-fluoride ( $\text{SF}_6$ ); Veterans Administration Hospital; Experiments; Full-scale; Gas tracer; Interstitial space; Penetration through ceiling; *NBSIR 75-903*. SP305-7.
- Smoke movement; Stratified flow; Theory; Corridors; Fire induced flow; Recirculating flow; Scale-model; 15630. SP305-7.
- Smoke movement simulation; Smokeproof tower; High-rise buildings; Photoelectric smoke detector; Smoke control; *NBSIR 75-701*. SP305-7.
- Smoke potential; Test method; Visibility; Building materials; Fire; Fire services; Smoke; Smoke density chamber; *TN757*. SP305-5.
- Smoke production; Smoke tests; Building materials; Fires; Optical density; Room furnishings; 16557. SP305-8.
- Smoke simulation; Analysis; Basic correlation formulas; Computer calculations; High-rise building fire; Operation BREAKTHROUGH; Pressurized stairwell; Quantitative experiment; Smoke control; 13795. SP305-5.
- Smoke simulation; Sulfur hexa-fluoride ( $\text{SF}_6$ ); Veterans Administration Hospital; Experiments; Full-scale; Gas tracer; Interstitial space; Penetration through ceiling; Smoke movement; *NBSIR 75-903*. SP305-7.
- Smoke stacks; Structural failure; Wind loads; Buildings; Design criteria; Dynamics; Gust factors; *BSS30*, pp. 5-8. SP305-3.
- Smoke suppressants; Fire performance; Horizontal and vertical smoke measurements; Smoke; Smoke density chamber; 16178. SP305-8.
- Smoke test; Antenna performance; COBOL; Environmental buoy cables; Highway repair costs; Incentives program; Innovators; Paper degradation; *TNB 57*, No. 7, 153-176 (1973). SP305-5.
- Smoke tests; Building materials; Fires; Optical density; Room furnishings; Smoke production; 16557. SP305-8.
- Smoke tests; Test comparison; UK; USA; Fire propagation test; Fire tests; Smoke density chamber; 16125. SP305-8.
- Smokeproof tower; High-rise buildings; Photoelectric smoke detector; Smoke control; Smoke movement simulation; *NBSIR 75-701*. SP305-7.
- Smoldering; Upholstery fabric; Cotton; Cushioning; Fire retardant; Furniture; Glowing; Inhibitor; Oxidative pyrolysis; Oxygen index; Rayon; Smoke; 16224. SP305-8.
- Smoldering fabrics; Fabric flammability; Flammability testing; Heat transfer; *NBS-GCR-73-2*. SP305-8.
- Smoluchowski's equation; Dielectric loss; Relaxation; Single axis rotator; Site model; 14646. SP305-6.
- Smoothing; Continuous function; Fourier series; Piecewise; *J.71C2-248, 93-100* (1967). SP305.
- Smoothing of observations; Thermodynamic properties; Thermodynamics; Thermometry; Time; Vaporization correction; Adiabatic calorimetry; Calorimeters; Calorimetry; Cryoscopy; Cryostats; Curvature correction; Heat-leak correction; 11189. SP305-2.
- SMSA; Standard metropolitan statistical area; Data standard; Representations and codes; *FIPS PUB 8*. SP305-1.
- Sn; Susceptibility; Zn; Ag; Al; Alloys; Au; Cd; Cu; Ga; Hg; Hyperfine fields; In; Knight shift; Noble metals; P; 10837. SP305-1.
- Sn-Cd alloys; Structure; Alloy; Directional solidification; Incongruent melting alloy; Peritectic reaction; 14748. SP305-7.
- Snow drifting; Utilidors; Ventilation; Air leakage; Arctic; Central heat distribution systems; Construction materials; Drainage; Insulation; Permafrost; Seasonal frost; *BS566*, 122-135. SP305-7.
- $\text{SnO}_2\text{-IrO}_2$  system; Solid solution;  $\text{TiO}_2\text{-IrO}_2$  system; Dissolution; Phase relations; *J.71A2-441, 119-123* (1967). SP305.
- $\sigma(n,xy)$  measurements;  $E_n$  to 21 MeV; Ey to 10 MeV; *SP4*, pp. 766-769. SP305-7.
- $\text{Sn}^{109m}$  source; Solid solution; Tin; Intermetallic; Mössbauer; Palladium alloys; 11659. SP305-2.
- SO; Vacuum ultraviolet; Heat of formation;  $\text{OSCl}_2$ ; Photosociation; 12739. SP305-4.
- Soap; Solubilization; Standard values; Surface active agents; Surface chemistry; Surface tension; Surfactant; Association; Colloid; Bibliography; CMC; Colloid; Colloidal electrolyte; Critical concentration; Critical micelle concentration; *NSRDS-NBS36*. SP305-3.
- Soap; Stabilizer; Styrene-butadiene rubber (SBR); Wash; Bound styrene; Carbon black; Chemical analysis; Latex; Oil; Organic acid; Serums; *TN485*. SP305-1.
- Social; City; Computer; Computer games; Economic; Government; Metropolitan; Simulation; *NBSIR 74-555*. SP305-6.
- Social; Urban; City; Computer; Directors; Economic; Government; Metropolitan; Players; Sectors; Simulation; 13511. SP305-5.
- Social; Urban; City; Computer; Directors; Economic; Government; Metropolitan; Players; Sectors; Simulation; *NBSIR 73-108*. SP305-6.
- Social; Urban; City; Computer; Directors; Economic; Government; Metropolitan; Players; Sectors; Simulation; *NBSIR 73-110*. SP305-6.
- Social; Urban; City; Computer; Director's; Economic; Government; Metropolitan players; Sectors; Simulation; *NBSIR 73-113*. SP305-6.
- Social; Urban; City; Computer; Directors; Economic; Government; Metropolitan; Players; Sectors; Simulation; *NBSIR 73-114*. SP305-6.
- Social impact; Noise; Noise sources; 13504. SP305-5.
- Social impact of automation; Automation technology; Economic impact of automation; Productivity improvement; Public services; *SP448*. SP305-8.
- Social invention; Technology transfer; Innovation; Invention; 9663. SP305-1.
- Social needs; Technology; Trends in science; Bioengineering; Budgetary environment; 10789. SP305-1.
- Social opportunity; Economic challenge; Scientific and technical resources, converting; *NBS-GCR-73-3*. SP305-8.
- Social purposes, civilian; Technological innovation; Civil technological innovation; *NBS-GCR-75-42*. SP305-8.
- Social sciences, services to; Statistical education in the United States; Statistical tolerance limits; U.S. Army programs statistics; U.S. Government, services to; Wilks award; *W. S. S.; Annals of Mathematical Statistics*; bibliography; 161. SP305-8.
- Social urban; City; Computer; Director's; Economic; Government; Metropolitan players; Sectors; Simulation; *NBSIR 73-109*. SP305-6.
- Societal risk; Nuclear materials safeguards; Safeguards evaluation; Safeguards system design; 16514. SP305-8.
- Society and science; Technology and civilization; Prevention technology; Scientific ill; 16300. SP305-8.
- Socio-economic; Structural design; Technology implementation; Wind effects; Wind loads; Codes and standards; Information transfer; Low-rise buildings; Pressure transducers; *BS*. SP305-6.
- Socioeconomic aspects; Typhoons; Construction; Developing countries; Earthquakes; Low-cost housing; Natural disasters; Philippines; *NBS-GCR-73-21*. SP305-8.



la-lime glass; Static fatigue; Stress corrosion; Surface energy; Crack propagation; Fracture surface energy; Glass; *10129. SP305-1.*

la-lime glasses; Viscosity; Composition; Fulcher equation; glasses; *J78A No. 4, 497-504 (1974). SP305-6.*

ium; Activation analysis; Archeology; Glass; Manganese; Medieval windows; Potassium; *13171. SP305-5.*

ium; Alkali halides; Aqueous; Chloride; Color centers; Conductivity; Crystal growth; *9182. SP305.*

ium; Alkali halides; Aqueous; Chloride; Color centers; Conductivity; Crystal growth; *10166. SP305-1.*

ium; Aluminum; Argon; Atomic transition probabilities; Beryllium; Boron; Carbon; Chlorine; Helium; Hydrogen; Lithium; Magnesium; Nitrogen; Oxygen; Potassium; *16164. SP305-8.*

ium; Aluminum; Beryllium; Electrolysis; Liquid ammonia; Lithium; Magnesium; Nonaqueous systems, electrolysis of; Potassium; *9598. SP305-1.*

ium; Atom; Dye laser; Electric quadrupole; Fine structure; Ionization; Multiphoton; *15149. SP305-7.*

ium; Atomic collisions; Atomic orientation; Collisional disorientation; Optical pumping; Resonance fluorescence; *1252. SP305-2.*

ium; Coincidence spectrometry; Oxygen; Photon activation analysis; Rapid radiochemical separation; *11642A. SP305-2.*

ium; Compton scattering; Electronic linear momentum distribution function; Lithium; Potassium; *SP323, p. 345. SP305-4.*

ium; Electron excitation; *13111. SP305-5.*

ium; Far ultraviolet spectroscopy; Ion absorption spectrum; Ion photoionization; Laser ionization; Photoionization resonances; *16415. SP305-8.*

ium; Interband transition theory; Optical absorption; Potassium; Pseudopotential; *11921. SP305-3.*

ium; Line broadening; Rubidium; *15349. SP305-7.*

ium; Molecules; Noble gases; Radiation; *15167. SP305-7.*

ium; Spectroscopic application; Heat pipe; Indium iodide; Laser application; *13462. SP305-5.*

ium; Spin-exchange; Electron; Optical pumping; *9275. SP305.*

ium; Spontaneous Raman scattering in free atoms; Atomic beams; Multiphoton ionization; *16572. SP305-8.*

ium; Sulfur; Transition probabilities; Allowed and forbidden transitions; Aluminum; Argon; Calcium; Chlorine; Magnesium; Oscillator strengths; Phosphorus; Potassium; Silicon; *ISRDS-NBS22. SP305-1.*

ium; Surface diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; Diffusion; *J. Phys. Chem. Ref. Data 4, No. 1, 177-250 (1975). SP305-7.*

ium; Temperature effects; Trace elements; Zinc; Atomic absorption spectrophotometry; Calcium; Container effects; Copper; Magnesium; Potassium; Serum minerals; Serum storage effects; *SP422, pp. 575-591 (Aug. 1976). SP305-8.*

ium; Thallium; X-ray diffraction; Alloys; Compounds; Intermetallic; Knight shift; Nuclear magnetic resonance; *10280. SP305-1.*

ium; Thermoelement power; Alkali metals; Alloys; Cesium; Knight shift; Lithium; Potassium; Pressure dependences; Pseudopotential; Resistivity ratios; Rubidium; *SP323, pp. 51-657. SP305-4.*

ium; Trace elements; Activation analysis; Glass; Hydrated antimony pentoxide (HAP); Radiochemical separations; *2000. SP305-3.*

ium; Water; Benchmark; Cross sections; Graphite; Neutron; *SP425, pp. 177-183. SP305-7.*

ium; X-rays; Photoelectron spectra; Potassium; Rubidium; *13357. SP305-5.*

Sodium acetate; Sorber; Solid; Work atmosphere; Air analysis; Air sampling; Gas analysis; Hydrogen fluoride; Industrial hygiene; *NBSIR 74-581. SP305-7.*

Sodium acetate; Sorber, solid; Work atmosphere; Air analysis; Air sampler; Charcoal; Chlorine; Fluorine; Gas analysis; Hydrogen cyanide; Hydrogen fluoride; Industrial hygiene; Phosphine; *NBSIR 74-527. SP305-6.*

Sodium antimonate; Sodium antimonate fluoride; Ionic conductivity; Nonstoichiometry; Potassium antimonate; Rubidium niobate; Rubidium tantalate; *15439. SP305-7.*

Sodium antimonate; Sodium antimony oxyfluoride; Alkali antimonates; Crystal growth; Ionic conductors; Potassium antimonate; *J. Res. 80A Nos. 5 and 6, 761-774 (1976). SP305-8.*

Sodium antimonate fluoride; Ionic conductivity; Nonstoichiometry; Potassium antimonate; Rubidium niobate; Rubidium tantalate; Sodium antimonate; *15439. SP305-7.*

Sodium antimony oxyfluoride; Alkali antimonates; Crystal growth; Ionic conductors; Potassium antimonate; Sodium antimonate; *J. Res. 80A Nos. 5 and 6, 761-774 (1976). SP305-8.*

Sodium bifluoride; Stretching vibration; Bending vibration; Hydrogen bond; Infrared; Isotope dilution; Lattice mode; Raman; *11983. SP305-3.*

Sodium borohydride; Acetals; Fructose; Ketoses; Oxidation; Psicose; Reduction; Ruthenium tetroxide; *12121. SP305-3.*

Sodium borohydride; Spin lattice relaxation time; Lithium borohydride; Nuclear magnetic relaxation; Phase transition; Potassium borohydride; *11167. SP305-2.*

Sodium carbonate; Thermonatrite; X-ray diffraction; Crystal structure; Hydrated carbonates; Hydrogen bonding; *J74A No. 3, 319-324 (1970). SP305-2.*

Sodium chlorate; Solution-grown crystals; Ammonium dihydrogen phosphate; Crystal defects; Crystal growth; Crystal-growth forms; Mother-liquor inclusions; Occlusions in crystals; *10856. SP305-1.*

Sodium chlorate; Temperature dependence 14-90 K;  $^{35}\text{Cl}$ chlorine; Nuclear quadrupole resonance; *12258. SP305-3.*

Sodium chloride; Arsenic trisulphide; Ion plating; Protective films; Moisture resistance; *SP435, pp. 14-19 (Apr. 1976). SP305-8.*

Sodium chloride; Bands; Crystals; Czochralski; Fringes; *10171. SP305-1.*

Sodium chloride; Barium sulphate; Bidirectional reflectance; Bidirectional reflectometer; Black coating; Gonioreflectometer; Magnesium oxide; Mu sulphur; Reflectance; Reflectometer; *J. Res. 80A No. 2, 189-205 (1976). SP305-8.*

Sodium chloride; Electron microscopy; Fracture; Mechanical properties; Plastic deformation; Sapphire; *NBSIR 73-297. SP305-6.*

Sodium chloride; Salt; Salt packages; *PS14-69. SP305-2.*

Sodium chloride; Solutions; Deuterium oxide; Potassium chloride; Salt mixtures; *11437. SP305-2.*

Sodium chloride; Standards; Activity standards; Clinical pH; Electrodes; Ion-selective electrodes; PH; Potassium chloride; *12695. SP305-4.*

Sodium chloride; Surface energy; Cleavage; Fracture; Fracture energy; Plastic deformation; *11607. SP305-2.*

Sodium chloride; Surface tension; Crystal growth; Ice; Interface kinetics; Morphological stability; *13895. SP305-6.*

Sodium chloride; Vapor pressure of aqueous solutions; Calcium chloride; Isopiestic measurements; Mixed salt solutions; *J70A4-406, 313-318 (1966). SP305.*

Sodium chloride coating; Synchronous amplification; Thoria; Tungsten; Diffuse reflectance; Graphite; High temperature reflectance; Infrared reflectance; Integrating sphere reflectometer; Laser, reflectance; *TN439. SP305-1.*

Sodium chloride coating; Thoria; Tungsten; Graphite; High temperature reflectance; Integrating sphere; Laser; Reflectance; *10571. SP305-1.*

- Sodium compounds; Standardization; Crystal structure; Thermochemical tables; Enthalpy; Entropy; Gibbs energy; Heat capacity; Potassium compounds; Rubidium compounds; *NBSIR 76-1034. SP305-8.*
- Sodium cyanide; Angular distribution; Crystal structure; Cyanide ion; Debye-Waller factor; Neutron diffraction; Orientational disorder; Potassium cyanide; *13290. SP305-5.*
- Sodium depletion; Tafel plots; Tungsten bronzes; Auger electron spectroscopy; Electrochemical; Oxygen reduction; *SP455, pp. 297-303 (Nov. 1976). SP305-8.*
- Sodium dodecyl sulfate-complexes; Chromatography; Controlled pore glass; Molecular size; Porous glass chromatography; Protein; Protein-sodium dodecyl sulfate complexes; *13721. SP305-5.*
- Sodium duodecyl sulfate; Chromatography; Controlled pore glass; Denaturing solvents; Glass; Molecular weight; Permeation; Porous glass; Proteins; *14068. SP305-6.*
- Sodium fluorescence; Atomic flame fluorescence; Barium fluorescence; Cw dye laser; *16594. SP305-8.*
- Sodium hydrosulfide; Cesium hydrosulfide; Hydrosulfides; Ion reorientation; Libration; Neutron scattering; Phase transition; Quasielastic; Residence time; *13700. SP305-5.*
- Sodium hydrosulfide; Crystal structure; Ion orientation; Libration; Neutron diffraction; Phase transition; Reorientation; *12559. SP305-4.*
- Sodium hydroxide; Work atmosphere; Air analysis; Air sampling; Gas analysis; Hydrogen cyanide; Industrial hygiene; Ion selective electrode; *NBSIR 76-998. SP305-8.*
- Sodium iodide; Detector; Electron; Gamma ray; Monte Carlo; Response function; *12743. SP305-4.*
- Sodium iodide; Standard; Detectors; Germanium; Ion chamber; Liquid scintillation; *SP456, pp. 77-82 (Nov. 1976). SP305-8.*
- Sodium iodide detector; Apollo 17; Background; Cosmic-ray proton; Induced radioactivity; Secondary neutrons; *15727. SP305-8.*
- Sodium iodide detector; California; Gamma rays; Neutrons; Radiative capture; Response functions; *13026. SP305-4.*
- Sodium iodide detector; Detection efficiency; Energy deposition spectrum; Gamma ray spectrum; Monte Carlo calculations; Resolution; Response function; *13043. SP305-4.*
- Sodium iodide detectors; Aurora; Balloon experiments; Bremsstrahlung; Electrons; Energy spectrum; *12838. SP305-4.*
- Sodium isoelectronic sequence; Tokamak plasmas; Atomic oscillator strengths; Beam-foil spectroscopy; Fusion plasma research; Plasma radiative losses; *16320. SP305-8.*
- Sodium matrix; Carbon; Carbon separation; Detection limit; Internal standard; Photon activation analysis; *10675. SP305-1.*
- Sodium metaperiodate; Aprotic solvents; Aromatic hydrocarbons; Malonic acid; Periodic acid; Pyrene radical; Quinones; Reaction mechanism; *J72A No. 4, 341-350 (1968). SP305-1.*
- Sodium molecule; Spectroscopy; Alkali dimer; Magnetic rotation; Molecular constants; Perturbations; *15516. SP305-7.*
- Sodium molybdate-molybdenum trioxide system; Calorimetry; Complex salts; Composition of complex salts, determination of; Fused salts; Partial molal heat effect; *10515. SP305-1.*
- Sodium (Na); Soft x-ray emission; Aluminum; Core hole; Electronic density of states; Fermi edge singularity; Pseudopotential; *SP323, pp. 269-270. SP305-4.*
- Sodium (Na); Transmission measurements; Aluminum (Al); Beryllium (Be); Electronic density of states; Electron synchrotron light; K spectra; Light metals; Lithium (Li); L spectra; Magnesium (Mg); Photoabsorption; *SP323, pp. 275-277. SP305-4.*
- Sodium nitroprusside; Iron compounds; Optical Mossbauer spectrometer; Tandem Mossbauer spectrometer; Velocity calibration; Mossbauer; Spectroscopy; Standard; Differential chemical shift; Quadrupole splitting; Random error; Systematic error; *M260-13. SP305.*
- Sodium nitroprusside; Standardization; Crystal structure; Ferential chemical shift; Mossbauer spectroscopy; Quadrupole splitting; *9238. SP305.*
- Sodium nitroprusside; TiFe; Calibration; Chemical shift; Knight shift; Mossbauer effect; *J74A No. 5, 691-697 (1976). SP305-2.*
- Sodium periodate; Aprotic solvent; Paraperiodic acid; Polycyclic aromatic hydrocarbons; Reaction mechanism; *1023. SP305-1.*
- Sodium tetraborate; Symbolic addition; X-ray; Crystal structure; *9801. SP305-1.*
- Sodium thallide; Alloys; Charge transfer; Intermetallic compounds; Ionic bond; Metallic bond; *11254. SP305-2.*
- Sodium trace detection; Dye laser use for resonant fluorescence; Furnace atmosphere sodium contaminant; Furnace qualification; Resonance fluorescence; *1653. SP305-8.*
- Sodium tungstate; Structure; Resistivity; Seebeck coefficient; *SP364, pp. 41-50. SP305-4.*
- Sodium vapor; Analytical; Cw organic dye laser; Fluorescence; Laser; *13200. SP305-5.*
- Sodium 2-keto-D-glucuronate, reduction with lithium borohydride-r; Sugars, tritium-labeled; Tritium-labeled compounds, D-mannose-2-*t* and D-glucose-2-*r*; *J73A No. 1, 77 (1969). SP305-1.*
- Sodium-borosilicate; Electron microscopy; Immiscible oxidation; Nucleation and growth; Phase decomposition; Phase separation; *12840. SP305-4.*
- Sodiumdodecylsulfate-complexes; Chromatography; Controlled pore glass chromatography; Molecular size; Porous glass chromatography; Protein; Protein-sodiumdodecyl sulfate complexes; *14307. SP305-6.*
- Sodium-iodide crystals; Anti-coincidence shielding; Low-level radioactivity measurements; Scintillation counting; *1333. SP305-5.*
- Sodium-silicate binary; Thermodynamics; Alkali-silicates; Glass; Immiscibility; Lithium-silicate binary; Melts; Miscibility; *14306. SP305-6.*
- Sodium-22; Standard reference materials; Argon; Calibration; Detector, radioactive argon; Ionization chamber; *1633. SP305-8.*
- Sodium-22; Sum coincidence counting; Yttrium-88; Aluminum-26; Bismuth-207; Cobalt-60; Niobium-94; Radioactivity standardization; *14299. SP305-6.*
- Sodium-22; Thermal; Westcott; Cross section; Neutron Resonance; *SP425, pp. 792-794. SP305-7.*
- Soft copy; Text editing displays; User control functions; Visual displays; Alphanumeric displays; ASCII Code; Cathode-ray tube displays; Control functions; Display terminals; Interactive terminals; Remote computer terminals; *14652. SP305-8.*
- Soft copy; Text-editing displays; Visual displays; Alphanumeric displays; ASCII code; Cathode-ray-tube displays; Control functions; Display terminals; Interactive terminals; Remote computer terminals; *14466. SP305-6.*
- Soft glass pipets; Unwashed soft glass pipets; Clinical; Contamination; Errors; *15295. SP305-7.*
- Soft materials; Strain extensometer; Cryostat; Electrical resistance; *11825. SP305-3.*
- Soft metals; Solid lubricants; Compatibility; Electropolished metal film coatings; Metallurgical; Metals; *SP452, pp. 72-73 (Sept. 1976). SP305-8.*
- Soft tissue; Amalgam alloys; Gallium alloys; Gold-gallium alloys; Silver-amalgam control specimens; *9906. SP305-1.*
- Soft tissue; Biological analysis; Electron probe; Ion probe; Microprobe analysis; Quantitation; *14236. SP305-6.*
- Soft tissue; Bone; Collagen; Grafting modification of collagenous surfaces; Hard tissue; Rat skin; *15531. SP305-7.*
- Soft tissue; Surface grafting; Tissue modification; Collagen; Graft polymers; Hard tissue; *14617. SP305-6.*

- ft x-ray; Alloy data; Bibliography; Index; Information; Knight shifts; NMR; *NBS-OSRDB-70-2 (COM-71-00722)*. **SP305-3.**
- ft x-ray; Alloy data; Bibliography; Index; Information; Knight shifts; NMR; *SP324*. **SP305-3.**
- ft x-ray; Alloy data; Bibliography; Index; Information; Knight shifts; NMR; *J.74A No. 4, 531-533 (1970)*. **SP305-2.**
- ft x-ray; Alloy data; Bibliography; Index; Knight shifts; NMR; Rare earth metals and alloys; *14744*. **SP305-7.**
- ft x-ray; Aluminum; Critical evaluation; Emission spectra; Metals; *14069*. **SP305-6.**
- ft x-ray; Spectra; Alloys; Critical review; Emission spectra; Intermetallic compounds; Metals; *SP369*. **SP305-6.**
- ft x-ray; Transition metal diborides; Band structure; Borides; Density of states; Emission spectra; *14070*. **SP305-6.**
- ft x-rays; Alloys; Auger transitions; Density of states; Many-body interactions; Plasmons; Singularities; *J.74A No. 2, 273-279 (1970)*. **SP305-2.**
- ft x-rays; Excitation methods; Gratings; Grating spectrometers; Photon detectors; *14338*. **SP305-6.**
- ft x-rays; Subshell structure; Angular distribution; Photoabsorption; *16386*. **SP305-8.**
- ft x-ray; Absorption spectrum; Aluminum; Aluminum oxide; edges; *10738*. **SP305-1.**
- ft x-ray; Aluminum; Electron gas; Emission spectrum; Excitations; Plasmon; *10889*. **SP305-2.**
- ft x-ray; Au; AuAl<sub>3</sub>; d-bands; Emission spectrum; *N<sub>63</sub>: 13952*. **SP305-6.**
- ft x-ray; Band structure; Cu; Deep probes; Emission; Occupied bands; *11952*. **SP305-3.**
- ft x-ray; Spectra; Alloys; Critical review; Emission spectra; Intermetallic compounds; Metals; *J. Phys. Chem. Ref. Data 2, No. 2, 411-426 (1973)*. **SP305-6.**
- ft x-ray; Titanium compounds; Electron concentration; Electronic density of states; Localized states; *SP323*, pp. 329-333. **SP305-4.**
- ft x-ray; Transition probability; Density of states; Emission spectrum; Linear detection; Nickel; Oxide free; Paramagnetic; *10334*. **SP305-1.**
- ft x-ray; Transition probability; Density of states; Exciton; Many body effects; Phase shifts; *J.74A No. 2, 267-272 (1970)*. **SP305-2.**
- ft x-ray appearance potential; Tungsten; Tungsten carbide; X-ray photoemission; Catalysis; Electronic structure; Platinum; *15011*. **SP305-7.**
- ft x-ray emission; Soft x-ray spectra; Transition metals; Co; Cr; d-band widths; Electronic structure; Fe; Ferromagnetism; *15780*. **SP305-8.**
- ft x-ray spectra; Transition metals; Co; Cr; d-band widths; Electronic structure; Fe; Ferromagnetism; Soft x-ray emission; *15780*. **SP305-8.**
- ft x-ray spectra of alloys; Temperature broadening; Ti-Al system; TiNi; Absorption correction; Density of states; Lifetime broadening; Nickel; Overlapping spectra; *10533*. **SP305-1.**
- ft x-ray spectrometer; Spectrometer drive; Lubrication in vacuum; *11617*. **SP305-2.**
- ft x-ray spectroscopy; Alloys; Annotation; Automated; Bibliography; Data; Indexing; Information; Knight shifts; Metals; NMR; *TN464*. **SP305-1.**
- ft x-ray spectroscopy; TiNi intermetallic compound; Transition probability energy; Aluminum; Density of states; L-emission band; M-emission band; Ni-Al system; Nickel; *10890*. **SP305-2.**
- ft X-ray spectrum; Ag; Cu; Double electron photoexcitation; Ni; Photoemission; *9442*. **SP305.**
- ft x-rays; Alloys; Auger transitions; Density of states; Many-body interactions; Plasmons; Singularities; *SP323*, pp. 287-293. **SP305-4.**
- ft x-rays; Band structure; Emission spectrum; Gold; *N spectrum; 12504*. **SP305-4.**
- Soft x-ray; Copper; Electronic density of states; Mechanical strain; Modulation technique; Nickel; *SP323*, pp. 281-285. **SP305-4.**
- Soft x-ray; Electronic density of states; Light metals; Many-body effects; Plasmon satellite; *SP323*, pp. 273-274. **SP305-4.**
- Soft x-ray; Specific heat; Superconductivity; Transport properties; Tunneling; Band structure; Disordered systems; Electronic density of states; Ion neutralization; Knight shift; Magnetic susceptibility; Many-body effects; Optical properties; *SP323*. **SP305-4.**
- Soft x-ray; Transition probability; Density of states; Exciton; Many body effects; Phase shifts; *SP323*, pp. 253-258. **SP305-4.**
- Soft x-ray emission; Aluminum; Core hole; Electronic density of states; Fermi edge singularity; Pseudopotential; Sodium (Na); *SP323*, pp. 269-270. **SP305-4.**
- Soft x-ray emission; Aluminum (Al); Aluminum-magnesium alloys (Al-Mg); Charging effect; Electronic density of states; Emission spectra; Magnesium (Mg); Rigid-band approximation; *SP323*, pp. 313-317. **SP305-4.**
- Soft x-ray emission; Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>); Electronic density of states; Gold aluminate (AuAl<sub>2</sub>); Knight shift; Magnesium-aluminum alloy phases; Nickel aluminate (NiAl); *SP323*, pp. 665-670. **SP305-4.**
- Soft x-ray emission; Aluminum-copper alloys (AlCu); Aluminum-zinc alloys (Al-Zn); Electron density of states; Silver aluminum alloys (Ag-Al); *SP323*, pp. 307-312. **SP305-4.**
- Soft x-ray emission; Augmented plane wave method (APW); Electronic density of states; Electronic specific heat; Gold aluminate (AuAl<sub>2</sub>); "muffin-tin" potential; Orbital density of states; *SP323*, pp. 297-301. **SP305-4.**
- Soft x-ray emission; Carbon; Diamond; Electronic density of states; Germanium; Kp method; Orthogonalized plane wave (OPW) method; Silicon; *SP323*, pp. 335-337. **SP305-4.**
- Soft x-ray emission; s-orbital density of states; Electron density of states; Gold aluminate (AuAl<sub>2</sub>); Gold-gallium (AuGa<sub>2</sub>); Gold-indium (AuIn<sub>2</sub>); Intermetallic compounds CsCl structure; L spectra; *SP323*, pp. 303-305. **SP305-4.**
- Soft x-ray emission; X-ray spectroscopy; Zinc (Zn); Cobalt; Copper; Electronic density of states; Iron; Nickel; Satellite emissions; Self absorption; *SP323*, pp. 319-326. **SP305-4.**
- Soft x-ray spectroscopy; Valence bands; Absorption spectra; Electron transitions; Emission spectra; L<sub>2,3</sub> emission spectra; Shells; *12583*. **SP305-4.**
- Soft x-ray spectroscopy; X-ray photoemission spectroscopy; Alloys; Aluminum; Gallium; Gold; Indium; Intermetallic compound; Knight shift; Relaxation time; *12721*. **SP305-4.**
- Soft x-rays; Calibration techniques; Cavity ionization chamber; Free-air chamber; *10674*. **SP305-1.**
- Soft x-rays; Central potential model; Photoabsorption cross section; Photoionization cross section; *10395*. **SP305-1.**
- Soft x-rays; X-rays; Fibers; Microfocus tubes; Microradiography; Nylon; Polyacrylonitrile; Polyamides; Reflection of x-rays; *9488*. **SP305.**
- Softening point; Sulfur dioxide; Asphalt flux; Carbonyl absorbance; Coating-grade asphalt; Infrared analysis; Nitrogen oxides; Oxidation; *10468*. **SP305-1.**
- Software; ADP policies; Computer technology; Management; Quality control; *14634*. **SP305-6.**
- Software; Archives; Computer programs; Documentation; *10643*. **SP305-1.**
- Software; Automated data systems; Computer programs; Documentation; Documentation content guidelines; FIPS guidelines; *FIPS PUB 38*. **SP305-8.**
- Software; COBOL; Compilers; Data processing; Federal Information Processing Standard; Information interchange; Information processing; Programming language; *FIPS PUB 29*. **SP305-6.**

Software; COBOL; Data processing; Federal Information Processing Standard; Information interchange; Information processing; Programming language; *FIPS PUB 21. SP305-4.*

Software; COBOL; Data processing; Federal Information Processing Standard; Information interchange; Information processing; Programming language; *NBSIR 74-487. SP305-6.*

Software; Computer, computer hardware; Computer software; Cross-assembler; Cross-compiler; Hardware; Language; Minicomputer; *13451. SP305-5.*

Software; Debugging; Interdata 70; OS AIDS; RTOS; *15538. SP305-7.*

Software; Standards; CAMAC; Computer systems; Control systems; Industrial control; *14885. SP305-7.*

Software; Standards conformance; COBOL; Data processing; Federal Information Processing Standard; Information interchange; Information processing; Programming language; *FIPS PUB 21-1. SP305-7.*

Software; Standards conformance; COBOL; COBOL coding form; Federal Information Processing Standard; Federal Standard COBOL; *FIPS PUB 44. SP305-8.*

Software; Test problems; Accuracy; ANSI FORTRAN; Computer system implementation; Examples; OMNITAB II; *TN551. SP305-3.*

Software correctness; Software verification; Symbolic program evaluation; Automatic testing; Computer program testing; FORTRAN programs; Program analysis; *NBS-GCR-76-69. SP305-8.*

Software engineering; Programming; Quality software; *TN832. SP305-6.*

Software engineering; Software systems; Security, software; *16099. SP305-8.*

Software exchange; Software summary; Software survey; Space management software; University systems; Directory; Equipment management software; Fiscal administration software; Grant/contract software; Personnel management software; Proposal/award software; *TN916. SP305-8.*

Software features; System evaluation; System features; User experiences; Data base applications; Data base management systems; Selection criteria; *TN887. SP305-7.*

Software management; Survey; ADP; COBOL; Federal ADP installations; Federal Standard COBOL; Impact evaluation; Sample; *NBSIR 76-1100. SP305-8.*

Software measurement tools; Total computing capacity; User satisfaction measurement; Reduction of measurement data; *SP406, pp. 27-31. SP305-7.*

Software monitoring; System reliability; Hardware monitoring; Monitoring register; *SP406, pp. 87-96. SP305-7.*

Software monitors; Accounting systems; Hardware monitors; Performance evaluation; Performance measurement; *SP406, pp. 113-117. SP305-7.*

Software monitors; Computer performance; Computer security; Hardware monitors; Performance evaluation of secure computer systems; Security, data transmission; Security, file access; Security, identification (password); Security, input and output processing; *SP406, pp. 83-86. SP305-7.*

Software monitors; Systems design and evaluation; Time-sharing systems evaluation; Computer evaluation; Computer performance; Computer scheduling; Hardware monitors; Simulation of computer systems; *SP401. SP305-6.*

Software monitors; Throughput; Computer; Evaluation; Hardware monitors; Measurement; Performance; *SP406, pp. 99-102. SP305-7.*

Software physics; Software units; Software work; Computer performance measurement; *SP406, pp. 135-137. SP305-7.*

Software quality; Structured programming; Top-down programming; Control structures; GOTO-less programming; Program validation; Programming; Proofs of correctness; Referential transparency; *TN842. SP305-6.*

Software reliability; Static analysis; Testing software; Dynamic analysis; Proof of correctness; *14640. SP305-6.*

Software security; Taxonomy of integrity flaws; UNIVAC 11 Series OS; BBN-TENEX; IBM OS/360; Operating system security; Security flaws; *NBSIR 76-1041. SP305-8.*

Software selection; Text processing; Bibliographic system; Computer programs; Computer systems; Data base; Database management; Information retrieval; Information services; Interactive system; Query language; *TN819. SP305-6.*

Software summary; Software survey; Space management software; University systems; Directory; Equipment management software; Fiscal administration software; Grant/contract software; Personnel management software; Proposal/award software; Research administration; *TN916. SP305-8.*

Software survey; Space management software; University systems; Directory; Equipment management software; Fiscal administration software; Grant/contract software; Personnel management software; Proposal/award software; Research administration; Software exchange; *TN916. SP305-8.*

Software systems; Security, software; Software engineering; *16099. SP305-8.*

Software testing; Software verification; Static software analysis; Structured programming; System errors; System performance; Theorem-proving; Compiler; Computer network; Documentation; Dynamic software analysis; Interpreter; Quality control; *TN800. SP305-6.*

Software units; Software work; Computer performance measurement; Software physics; *SP406, pp. 135-137. SP305-7.*

Software usage; Documentation of software; Economics of software; Man/machine interface problems; Problem-oriented languages; *9533. SP305-1.*

Software validation; Tools; Actual system performance; Computer performance evaluation; Performance prediction; Simulation; *SP406, pp. 79-82. SP305-7.*

Software verification; Automatic testing; Computer program testing; FORTRAN programs; Program analysis; *NBS-GCR-75-46. SP305-8.*

Software verification; Automatic testing; Computer program testing; FORTRAN programs; Program analysis; *NBS-GCR-75-47. SP305-8.*

Software verification; Static software analysis; Structured programming; System errors; System performance; Theorem-proving; Compiler; Computer network; Documentation; Dynamic software analysis; Interpreter; Quality control; Software testing; *TN800. SP305-6.*

Software verification; Symbolic program evaluation; Automatic testing; Computer program testing; FORTRAN programs; Program analysis; Software correctness; *NBS-GCR-76-69. SP305-8.*

Software work; Computer performance measurement; Software physics; Software units; *SP406, pp. 135-137. SP305-7.*

Softwood; Species; Timber; Grades; Lumber; Sizes; *PS20-SP305-2.*

Softwood plywood, decorative; Veneer grades, decorative softwood and hardwood; Decorative plywood; Hardwood plywood; Plywood, hardwood and decorative; *PS51-SP305-4.*

Soft-x-ray; Band ferromagnetism; Fe; Magnetic transition; spectrum; *13032. SP305-4.*

Soil; Biological samples; Environmental samples; Lead; Photoactivation analysis; *12655. SP305-4.*

Soil; Stainless steel; Stress; Stress-corrosion; Underground; Corrosion; Galvanic; Hydrogen embrittlement; *16354. SP305-4.*

Soil; Tests; Torsional excitation; Damping; Damping coefficients; Shear modulus; *SP444, pp. III-72—III-83 (Apr. 1975). SP305-8.*

Soil; Thermal neutron constants; Calibration; Neutron moisture gauge; Pedology; *SP425, pp. 516-519. SP305-7.*

Soil; Vegetation; Dielectric constant; Dielectric loss; Dielectric measurements; *10854. SP305-1.*



oil corrosion; Cast iron; Corrosion; Ductile iron; Exposure sites; Ferrous metals; Gray iron; Pipe; Pipelines; Underground; 11100. **SP305-2.**

oil corrosion; Cathodic protection; Copper; Corrosion current; Corrosion rate; Polarization; Potential; 10055. **SP305-1.**

oil corrosion; Soils; Steel piles; Underground; Corrosion; H-piles; Sheet piles; 11654. **SP305-2.**

oil corrosion; Stainless steel; Underground corrosion; Copper; Corrosion; Galvanic corrosion; 16355. **SP305-8.**

oil corrosion; Steel; Steel piles; Underground; Corrosion; Permafrost; Pilings; 11653. **SP305-2.**

oil corrosion; Steel; Titanium; Underground; Corrosion; Exposure sites; Pipe; 11106. **SP305-2.**

oil corrosion, telephone cable shields; Underground corrosion; Metal and plastic composites; Metal composites, metals; 16351. **SP305-8.**

oil corrosivity; Soil resistivity; Biological activity; Chemical tests; Electrochemical tests; PH; Polarization measurements; Redox-potential; 14310. **SP305-6.**

oil density; Stability; Earthfill dams; Earthquakes; Ground shaking; Liquefaction; *SP444*, pp. III-24—III-37 (Apr. 1976). **SP305-8.**

oil environment; Stainless steels; Stress-corrosion behavior; Coatings; Corrosion behavior; Field tests; Galvanic couples; *NBSIR 76-1081*. **SP305-8.**

oil pipe and fittings; Soil pipe dimensions; Cast iron pipe, requirements; *CS188-66*. **SP305.**

oil pipe dimensions; Cast iron pipe, requirements; Soil pipe and fittings; *CS188-66*. **SP305.**

oil pollution; Solar spectrum; Water pollution; Adsorption; Nonbiological transformation; Nonbiological transport; Pollutant photochemistry; Pollutants; *NBSIR 76-1130*. **SP305-8.**

oil, residual; Cleanability, porcelain enamel surfaces; Fluorescent soils; Porcelain enamel; 9222. **SP305.**

oil resistivity; Biological activity; Chemical tests; Electrochemical tests; PH; Polarization measurements; Redox-potential; Soil corrosivity; 14310. **SP305-6.**

oil resistivity; Cathodic protection; Insulating joints; Nonconducting coating; Sacrificial anodes; *BSS66*, pp. 116-119. **SP305-7.**

oils; Absolute; Apollo; Composition; Isotopic; Lithium; Potassium; Relative; Rocks; Rubidium; 15869. **SP305-8.**

oils; Steel piles; Underground; Corrosion; H-piles; Sheet piles; Soil corrosion; 11654. **SP305-2.**

oils; Structural response; Volcanoes; Wind; Bridges; Buildings; Codes; Disaster; Dynamic analysis; Earthquakes; Modeling; *SP444*. **SP305-8.**

oils; Telephone cables; Underground; Alloys; Corrosion; Metallurgically-bonded; Metals; Plastic-bonded; 16352. **SP305-8.**

oils; Temperature; Thermal conductance; Thermal conductivity; Conductance; Conductivity; Heat transfer; Nuclear safety; 10944. **SP305-2.**

oils; Temperature; Thermal conductance; Thermal conductivity; Conductance; Conductivity; Heat transfer; Nuclear safety; 11305. **SP305-2.**

oil-structure interaction; Earthquake; Field data; Ground response; Seismic waves; Seismometer; *SP444*, pp. III-13—III-23 (Apr. 1976). **SP305-8.**

oil-structure interaction; Structural engineering; Design; Earthquakes; Highway bridges; Retrofitting; *SP444*, pp. V-1—V-24 (Apr. 1976). **SP305-8.**

oil; State; Architecture; Buildings; Design; Energy; Legislation; *NBSIR 76-1082*. **SP305-8.**

oil; Storage; Transmission; Transportation; Utilities; Conservation; Conversion; Cost; Cryogenics; Economics; Embrittlement; Energy; Hydrogen; Industrial; Instrumentation; Liquefaction; Literature; Materials; Production; *SP419*. **SP305-7.**

Solar active regions; Solar chromosphere; Spectral line formation; Radiative transfer; 14863. **SP305-7.**

Solar activity; Spread-F; Charged particles; Extra-terrestrial origins; Higher solar activity; Hydromagnetic waves; 10239. **SP305-1.**

Solar array; Solar cell; Thermal cycle vacuum testing; Thermal shroud; Gaseous nitrogen heater; Gas stream blower; GN temperature conditioning; *SP336*, pp. 669-682. **SP305-3.**

Solar atmosphere; Solar chromosphere; Solar plagues; Observations of solar spectra lines; 13130. **SP305-5.**

Solar buildings; Solar collectors; Solar domestic hot water systems; Solar heating; Standards; Thermal storage; *NBSIR 76-1059*. **SP305-8.**

Solar cell; Thermal cycle vacuum testing; Thermal shroud; Gaseous nitrogen heater; Gas stream blower; GN temperature conditioning; Solar array; *SP336*, pp. 669-682. **SP305-3.**

Solar cells; Space radiation; Space simulation; Thermal control; High vacuum; *SP336*, pp. 935-947. **SP305-3.**

Solar chromosphere; Millimeter absolute radiometry; Millimeter solar continuum; 13468. **SP305-5.**

Solar chromosphere; Solar photosphere; Solar ultraviolet spectrum; Radiative transfer; 16257. **SP305-8.**

Solar chromosphere; Solar plagues; Observations of solar spectra lines; Solar atmosphere; 13130. **SP305-5.**

Solar chromosphere; Solar spectrum; Sunspots; Wilson-Bappu effect; Ca H and K lines; Non-LTE line formation; Plagues; Radiative transport; 12106. **SP305-3.**

Solar chromosphere; Spectral line formation; Radiative transfer; Solar active regions; 14863. **SP305-7.**

Solar chromosphere; Spectral line formation; Ca II; H $\alpha$ ; 15562. **SP305-7.**

Solar chromosphere; Spectral line formation; Helium; Radiative transfer; 16609. **SP305-8.**

Solar chromosphere, physical properties; Solar chromosphere, structure; Spectral line formation; Spectroscopic diagnostics; Non-LTE radiative transfer; Resonance lines, Ca II; 12247. **SP305-3.**

Solar chromosphere, physical properties; Spectral line formation; Spectroscopic diagnostics; Non-LTE radiative transfer; Resonance lines, Ca II; 12248. **SP305-3.**

Solar chromosphere, structure; Spectral line formation; Spectroscopic diagnostics; Non-LTE radiative transfer; Resonance lines, Ca II; Solar chromosphere, physical properties; 12247. **SP305-3.**

Solar chromospheres; H $^{-}$  radiative losses; Non-LTE effects on mechanical heating; 12857. **SP305-4.**

Solar collector; Solar energy; Solar radiation; Standard; Standard test; Thermal performance; *NBSIR 74-635*. **SP305-7.**

Solar collector; Solar energy; Solar radiation; Standard; Standard test; Thermal performance; Thermal storage; *TN899*. **SP305-8.**

Solar collector; Solar heating and cooling system; Solar-powered absorption refrigeration; Retrofitted solar residence; *TN892*. **SP305-7.**

Solar collector; Solar heating and cooling; Thermal storage; Energy conservation; *GSA/Manchester building*; *NBSIR 76-1056*. **SP305-8.**

Solar collectors; Solar domestic hot water systems; Solar heating; Standards; Thermal storage; Solar buildings; *NBSIR 76-1059*. **SP305-8.**

Solar constant; Spectral irradiance; Total irradiance; Calibration techniques; Radiometric standards; 11775. **SP305-2.**

Solar conversion; Atmospheric physics; Radiometric physics; Radiometry; 14842. **SP305-7.**

Solar corona; Spectroscopic diagnostics; Optically thin line emission; Radiative transfer; 12924. **SP305-4.**

Solar corona; Spectroscopic diagnostics; Optically thin line emission; Radiative transfer; 12925. **SP305-4.**

- Solar corona; Spectroscopic diagnostics; 'Optically thin line emission; Radiative transfer; 12926. **SP305-4.**
- Solar corona; Vacuum ultraviolet emission spectra; Vacuum ultraviolet lasers; Electron-promotion model; Ion-atom collisions; 16621. **SP305-8.**
- Solar data, geomagnetic; Data, geomagnetic and solar; Geomagnetic solar data; 9181. **SP305.**
- Solar disk; Spectrum; Chromospheric flash spectrum; Chromospheric spectrum; 9259. **SP305.**
- Solar domestic hot water systems; Solar heating; Standards; Thermal storage; Solar buildings; Solar collectors; *NBSIR 76-1059. SP305-8.*
- Solar energy; Archimedes; Buffon; Burning mirrors; Feasibility; History of optics; Second Punic War; 13946. **SP305-6.**
- Solar energy; Energy levels; Photocatalytic electrodes; Photoelectrolytic cells; Photogalvanic cells; Quantum efficiency; *SP455*, pp. 221-227 (Nov. 1976). **SP305-8.**
- Solar energy; Solar heating and cooling; Economic optimization; HVAC systems; Life-cycle cost analysis; *NBSIR 75-712. SP305-7.*
- Solar energy; Solar radiation; Standard; Standard test; Thermal performance; Solar collector; *NBSIR 74-635. SP305-7.*
- Solar energy; Solar radiation; Standard; Standard test; Thermal performance; Thermal storage; Solar collector; *TN899. SP305-8.*
- Solar energy; SRM's; Computer systems; Environmental; Fire; Glass door; Lead nitrate; Mercury thermometers; Metric; Nuclear power; Police radars; *DIM/NBS 60*, No. 2, 1-25 (1976). **SP305-8.**
- Solar energy; Standard; Standard test; Thermal performance; Thermal storage; Thermal test; *NBSIR 74-634. SP305-7.*
- Solar energy; Standards; Buildings; *NBSIR 76-1143. SP305-8.*
- Solar energy; Standards; Buildings; Cooling; Heating; Hot water; Performance criteria; *NBSIR 76-1187. SP305-8.*
- Solar energy conversion; Effective irradiance; Radiometry; 15711. **SP305-8.**
- Solar energy systems evaluation; Thermal performance; Data requirements; Measurement uncertainty; *NBSIR 76-1137. SP305-8.*
- Solar flares; Acceleration mechanisms; Neutrons; Nuclear reactions; Protons; *SP425*, pp. 512-515. **SP305-7.**
- Solar flares; Chromosphere, sun; Photosphere, sun; Radiative transfer; 15286. **SP305-7.**
- Solar furnace; Thermal analysis; CoO-O<sub>2</sub> system; Melting point depression; Nonstoichiometry in liquid CoO; *SP364*, pp. 471-481. **SP305-4.**
- Solar glass; Spaciousness; Sunshine; View; Windowless; Windows; Daylight; Fenestration; Psychological; *B5570. SP305-7.*
- Solar heat load; Test procedure; Adhesives; Air-inflatable shelter sections; Cloth webs; Polyester and nylon fabrics; Sewn seams; Sewn seam strapping; *NBSIR 74-467. SP305-6.*
- Solar heating; Built-up roofing; Deterioration insulation; Radiative cooling; 9249. **SP305.**
- Solar heating; Liquid-applied coatings; Membrane movements; Prefabricated sheets; Radiative cooling; Roofing research; 9432. **SP305.**
- Solar heating; Standards; Thermal storage; Solar buildings; Solar collectors; Solar domestic hot water systems; *NBSIR 76-1059. SP305-8.*
- Solar heating; Surface temperature; Built-up roofing; Insulation; Performance; Radiative cooling; Roofing; *NBSIR 76-987. SP305-8.*
- Solar heating; Testing and rating methods; Air leakage; Cooling load; Refrigerated trucks; 9531. **SP305-1.**
- Solar heating and cooling; Economic optimization; HVAC systems; Life-cycle cost analysis; Solar energy; *NBSIR 75-712. SP305-7.*
- Solar heating and cooling; Thermal storage; Energy conservation; GSA/Manchester building; Solar collector; *NBSIR 76-1056. SP305-8.*
- Solar heating and cooling system; Solar-powered absorpt refrigeration; Retrofitted solar residence; Solar collector; *TN892. SP305-7.*
- Solar irradiance; Spectroradiometry; Ultraviolet; Natural radiance; Radiometry; 11455. **SP305-2.**
- Solar model; Upper photosphere; Carbon abundance; Molecular spectra; Non-LTE; 15044. **SP305-7.**
- Solar monitoring; Source standards; Blackbodies; Lamp standards; Radiometry; Remote sensing; 16619. **SP305-8.**
- Solar panels; Space; Sputtering; Surface contamination; Cleaning; Desorption; Ions; Outgassing; Quartz cryomicrobalance; *SP336*, pp. 113-127. **SP305-3.**
- Solar photosphere; Carbon abundance; Molecular spectra; 15585. **SP305-7.**
- Solar photosphere; Solar ultraviolet spectrum; H<sub>2</sub>; Opac continuous; 12246. **SP305-3.**
- Solar photosphere; Solar ultraviolet spectrum; Radiative transfer; Solar chromosphere; 16257. **SP305-8.**
- Solar physics; Transition probabilities; Atomic energy levels; Gaseous nebulae; Non-LTE thermodynamics; *SP353. SP305-3.*
- Solar plagues; Observations of solar spectra lines; Solar chromosphere; Solar chromosphere; 13130. **SP305-5.**
- Solar protons; Sporadic-E; Auroral absorption; Auroral radio disturbances; Polar cap absorption; 9193. **SP305-8.**
- Solar radiation; Spectral distribution; Water vapor concentration; Wavelength; Wavenumber; Aerosol; Air mass; Ozone; 9525. **SP305.**
- Solar radiation; Standard; Standard test; Thermal performance; Solar collector; Solar energy; *NBSIR 74-635. SP305-7.*
- Solar radiation; Standard; Standard test; Thermal performance; Thermal storage; Solar collector; Solar energy; *TN899. SP305-8.*
- Solar radiation; Stratospheric ozone; Ultraviolet solar radiation; 10087. **SP305-1.**
- Solar radiation; Temperature; Wind direction; Wind speed; Wind speed; Design conditions; Earthquake risk; Evaluation; Ground temperature; Humidity; Noise level; Operational; BREAKTHROUGH; Precipitation; 13398. **SP305-5.**
- Solar simulator; Spectroradiometer; Standard of spectral irradiance; Integrating sphere; 9256. **SP305.**
- Solar spectra; Atomic spectra; Coronal spectra; Periodicity; atomic spectra; Rare-earth spectra; Regularities, atomic spectra; 12288. **SP305-3.**
- Solar spectra; Spectra, atomic; Spectra, rare-earth; Atomic spectra; Coronal spectra; Rare-earth spectra; 11987. **SP305-3.**
- Solar spectra; Spectra of late-type stars; Sun-spot spectra; Atomic spectra; Molecular spectra; Rare-earth spectra; Reference data programs; 9950. **SP305-1.**
- Solar spectral lines; Intensity fluctuations; 13906. **SP305-6.**
- Solar spectrum; Standards, wavelength; Transition probability; Wavelength standards; Laboratory spectra; Molecular spectra; 10588. **SP305-1.**
- Solar spectrum; Sunspots; Wilson-Bappu effect; Ca H and lines; Non-LTE line formation; Plages; Radiative transport; Solar chromosphere; 12106. **SP305-3.**
- Solar spectrum; Transition probabilities; Atomic spectra; Rare-earth spectra; 9949. **SP305-1.**
- Solar spectrum; Water pollution; Adsorption; Nonbiological transformation; Nonbiological transport; Pollution; photochemistry; Pollutants; Soil pollution; *NBSIR 76-11. SP305-8.*
- Solar spectrum; Wavelengths of solar lines; Elements in solar lines; Equivalent widths of solar lines; Identification of solar line molecules in sun; *Mono. 61. SP305.*
- Solar ultraviolet radiation; Atmospheric environment; Balloon; Computer; Ozone; Plastic material; Simulation; *SP336*, pp. 245-259. **SP305-3.**

olar ultraviolet spectrum;  $H_{\alpha}^+$ ; Opacity, continuous; Solar photosphere; 12246. **SP305-3.**

olar ultraviolet spectrum; Radiative transfer; Solar chromosphere; Solar photosphere; 16257. **SP305-8.**

olar UV lines; Non-LTE line formation; Resonance lines; *SP332*, pp. 65-84. **SP305-2.**

olar wind; Earth magnetic field; Earth tail; Magnetosphere; Plasma theory; Shock wave; *SP336*, p. 297. **SP305-3.**

olar wind; Sputtering; Ultrahigh vacuum systems; Charge exchange; Charge neutralization; Ion optics; Mass separators; Proton sources; *SP336*, pp. 261-277. **SP305-3.**

olar wind simulator; Ion beam deflection; Ion optics; Mass separator; Proton source; *SP336*, pp. 279-296. **SP305-3.**

olar x-ray emission measurements; VELA satellite; VLF sudden phase anomalies measurements; 10192. **SP305-1.**

olar-powered absorption refrigeration; Retrofitted solar residence; Solar collector; Solar heating and cooling system; *TN892*. **SP305-7.**

older, gold alloy; Alloys, dental casting; Ceramic-metal systems; Chrome-cobalt alloys; Dental materials; Gold alloys; Metallurgy, dental alloy; Porcelain-gold materials; *SP354*, pp. 67-73. **SP305-4.**

older plate; Tin-nickel alloy; Tin plate; Underplatings for gold; Wear of gold; Contact lubrication; Corrosion inhibitors; Electrical contacts; Gold plate; Palladium; Polymer in gold; Porosity in gold; *SP452*, pp. 64-71 (Sept. 1976). **SP305-8.**

older-drop Josephson junctions; Superconductivity; Inductive ratio divider; Josephson effect; NPL of UK; Potential-diver resistor; Quantum standard of voltage; *SP335*, pp. 111-115. **SP305-3.**

oldering; Contact resistance; Oxide semiconductors;  $TiH_2$ ; 11812. **SP305-3.**

olmium; Tungsten; Bromine; Cadmium; Erbium; Gold; Half lives; Iridium; Measurement; Nuclear isomers; 12873. **SP305-4.**

olmium; Tungsten; Bromine; Cadmium; Erbium; Gold; Half lives; Iridium; Measurement; Nuclear isomers; 14356. **SP305-6.**

olenoid; Absorption cell; Earth's magnetic field; Helmholtz coil; Magnetometer; Optical pumping; Resonance line; Rubidium oscillator; 12396. **SP305-4.**

olenoid; Automated measurement systems; Gyromagnetic ratio; Magnetic field; Protons; 14929. **SP305-7.**

olenoid; Superconductivity; Switch; Temperature; Thermometer; Bearings; Bolometer; Electron microscope; Helium; Hydrogen; Level gauging; Liquid level; Magnet; Motor; Pump; Rectifier; 9715. **SP305-1.**

olenoid; Toroid; Transformer; Vector potential; Magnetic field; 12372. **SP305-3.**

olenoidal; Electrons; Escape; Faraday; Magnetic; Orbits; 9998. **SP305-1.**

olid; Alloy; CuNi; Incoherent; Liquid; Neutron; Scattering; 11598. **SP305-2.**

olid; Solid hydrogen; Tables; Computer programs; Gaseous hydrogen; Graphs; Handbook thermophysical properties; Hydrogen; Liquid hydrogen; Ortho-para modifications; Property value uncertainties; 15382. **SP305-7.**

olid; Theory; Valence electrons; X-ray Raman effect; Absorption; Charge correlation; Compton effect; Core electrons; Current correlation; Inelastic scattering; 12542. **SP305-4.**

olid; Work atmosphere; Air analysis; Air sampling; Gas analysis; Hydrogen fluoride; Industrial hygiene; Sodium acetate; Sorber; *NBSIR 74-581*. **SP305-7.**

olid angle; Spectrometer; Absolute cross section; Beam profile; Electron scattering; Scattering angle; *TN871*. **SP305-7.**

olid argon; Solid deuterium; Solidified gases; Solid methane; Thermal conductivity; Instrument; 12523. **SP305-4.**

Solid argon; Solid krypton; Solid xenon; Thermal expansion coefficient; Corresponding states; Lattice vibration spectrum; 9957. **SP305-1.**

Solid center conductor; Discontinuity capacitance; Open circuited coaxial line; Rayleigh-Ritz variational method; 11096. **SP305-2.**

Solid density; Dielectric constant; Melting pressure; Parahydrogen; Polarizability; 10810. **SP305-1.**

Solid deuterium; Solidified gases; Solid methane; Thermal conductivity; Instrument; Solid argon; 12523. **SP305-4.**

Solid dielectric track recorders;  $^{239}Pu$  track; Alpha particle tracks; Fission radiography; *SP422*, pp. 1132-1142 (Aug. 1976). **SP305-8.**

Solid electrical conductors; Measurements at high temperatures; Millisecond resolution; Pulse calorimetry; 13276. **SP305-5.**

Solid electrolyte; Beta alumina; Diffusion; Electrochemical cell; Electrochemical transducer; Ionic conductivity; Mass transport; *SP364*, p. 139-154. **SP305-4.**

Solid electrolyte; Charge transfer processes; Conduction mechanisms; Interfacial phenomena; *SP455*, pp. 323-340 (Nov. 1976). **SP305-8.**

Solid electrolyte; Electrode polarization; Impedance measurements; Interfaces; Ionic conductivity; Overpotential; 15819. **SP305-8.**

Solid electrolyte; Water; Beta alumina; Blocking electrode; Interface; *SP455*, pp. 341-349 (Nov. 1976). **SP305-8.**

Solid electrolytes; Cerium dioxide; Degradation; Electrocatalysis; Fuel cells; Refractory hard metal; *NBSIR 76-1091*. **SP305-8.**

Solid electrolytes; Surfaces; Catalysis; Characterization; Chemisorption; Electrocatalysis; Electrochemistry; Electrode processes; Nonmetals; Photoelectrolysis; *SP455*. **SP305-8.**

Solid ethane; Solid phase transition; Ethane; Melting line; Melting pressures; 15805. **SP305-8.**

Solid film lubricants; Sputtered coatings; Wear; Barrier film; Chemical coatings; Failure prevention; Mechanical failure; Metal coatings; Plated coatings; Polymer coatings; *SP452*. **SP305-8.**

Solid fuel; Ignition; Ignition boundary; 15227. **SP305-7.**

Solid fuels; Surface tension; Combustion models; Flame spread; Fluid flow; Laser doppler velocimetry; Liquid fuels; *NBS-GCR-76-79*. **SP305-8.**

Solid hydrogen; Flow restrictions; Liquid hydrogen; Liquid-solid mixtures; Plug flow; Slurry flow; Slush hydrogen; 11778. **SP305-2.**

Solid hydrogen; Tables; Computer programs; Gaseous hydrogen; Graphs; Handbook thermophysical properties; Hydrogen; Liquid hydrogen; Ortho-para modifications; Property value uncertainties; Solid; 15382. **SP305-7.**

Solid hydrogen; Thawing; Thermal conductivity; Freezing rates; *NBSIR 73-339*. **SP305-6.**

Solid krypton; Solid xenon; Thermal expansion coefficient; Corresponding states; Lattice vibration spectrum; Solid argon; 9957. **SP305-1.**

Solid lubricants; Compatibility; Electroplated soft metal film coatings; Metallurgical; Metals; Soft metals; *SP452*, pp. 72-83 (Sept. 1976). **SP305-8.**

Solid lubricants; Titanium; Wear; Curing agent; Fretting; Silicone resin; *SP452*, pp. 124-131 (Sept. 1976). **SP305-8.**

Solid lubricants; Wear; Fluoride films; Gears; Molybdenum disulfide; *SP452*, pp. 132-148 (Sept. 1976). **SP305-8.**

Solid lubrication; Abrasion; Corrosion protection; Friction; Marine environment; Powder coating; Salt water; *SP452*, pp. 25-30 (Sept. 1976). **SP305-8.**

Solid mechanics; Green's tensor; Hooke's elasticity; Non-local elasticity; *SP317*, pp. 737-746. **SP305-3.**

Solid mechanics; Surface waves; Green's tensor; Non-local elasticity; *SP317*, pp. 747-759. **SP305-3.**

- Solid mechanics; Wave propagation; Dilatation centers; Lattice statics; Non-local theories; *SP317*, pp. 729-736. **SP305-3.**
- Solid methane; Thermal conductivity; Instrument; Solid argon; Solid deuterium; Solidified gases; *12523*. **SP305-4.**
- Solid oxygen; Tables; Computer programs; Gaseous oxygen; Graphs; Handbook thermophysical properties; Liquid oxygen; Oxygen; Property value uncertainties; *13112*. **SP305-5.**
- Solid phase; Free radicals; Photolysis; Primary dissociations; Propane; *10007*. **SP305-1.**
- Solid phase; Vacuum ultraviolet; Carbene; Ethylene; Ethylidene; Gas phase; Photolysis; *9415*. **SP305.**
- Solid phase transition; Ethane; Melting line; Melting pressures; Solid ethane; *15805*. **SP305-8.**
- Solid plug; Solid-vapor mixture; Sub-triple point; Tubes; Flow; Hydrogen; Nitrogen; *11008*. **SP305-2.**
- Solid solubility; X-ray powder analysis; Crystal chemistry; Gel-preparation; Inorganic synthesis; Mineral identification; Polymorphism; Rare-earth silicate; *10998*. **SP305-2.**
- Solid solubility silicates; X-ray powder analysis; Crystal chemistry; Flux growth; Garnet; Hydrogarnet; Indium silicates; Inorganic synthesis; *15235*. **SP305-7.**
- Solid solution; Antiferromagnetism; Curie-Weiss paramagnetism; Ferromagnetism; Metallic conductivity; Oxide; Perovskite; *SP364*, pp. 275-284. **SP305-4.**
- Solid solution; Crystallization; Entrapment; Impurity; Phase equilibrium; Purification; Purity; *11111*. **SP305-2.**
- Solid solution;  $\text{Cr}_2\text{O}_3\text{-IrO}_2$  system; Dissociation; Phase relations; Platinum metal oxides; *9480*. **SP305.**
- Solid solution; Dissociation; Oxidation; Phase relations;  $\text{Ru-IrO}_2$  system;  $\text{RuO}_2\text{-IrO}_2$  system; *J73A No. 2, 213-219 (1969)*. **SP305-1.**
- Solid solution; Tin; Intermetallic; Mossbauer; Palladium alloys;  $\text{Sn}^{119\text{m}}$  source; *11659*. **SP305-2.**
- Solid solution;  $\text{TiO}_2\text{-IrO}_2$  system; Dissociation; Phase relations;  $\text{SnO}_2\text{-IrO}_2$  system; *J71A2-441, 119-123 (1967)*. **SP305.**
- Solid solution strengthening; Tensile tests; Carbide strengthening; Hydrogen-purified iron; Nitride strengthening; Nitrogen ferrite; Polycrystalline; *10327*. **SP305-1.**
- Solid solutions; Alkali halides; Heats of solution; Ion substitution; Lattice relaxation; Polarization energy; Shell calculations; *9300*. **SP305.**
- Solid solutions; Alloys; Contact term; Core polarization; Exchange enhancement; Knight shifts;  $\text{LaNi}_5$ ;  $\text{LaNi}_{5-x}\text{Pt}_x$ ;  $\text{LaPt}_5$ ; NMR; Ordering; Relaxation times; *14889*. **SP305-7.**
- Solid solutions;  $\text{Cs}_2\text{SO}_4$ ; Density  $\text{K}_2\text{SO}_4\text{-Cs}_2\text{SO}_4$  solid solutions; Equilibrium diagram  $\text{Cs}_2\text{SO}_4\text{-K}_2\text{SO}_4$ ; Hexagonal solid solutions;  $\text{K}_2\text{SO}_4$ ; *13973*. **SP305-6.**
- Solid standards; Antibodies; Antigens; Biological polymers; Immunochemical analysis; Light scattering; Polymers; Proteins; *J. Res. 80A No. 4, 605-608 (1976)*. **SP305-8.**
- Solid state; Amplifiers; Basic characteristics; Microwave; Oscillators; Semiconductor; *TN597*. **SP305-3.**
- Solid state; Strontium titanate; Semiconductors; Superconducting semiconductors; *11582*. **SP305-2.**
- Solid state; Tantalum carbide; Tungsten carbide; Vanadium carbide; Carbide; Crystal structure; Molybdenum carbide; Niobium carbide; Reaction mechanism; *SP364*, pp. 561-566. **SP305-4.**
- Solid state; Water pollution; Agriculture; Air pollution; Analytical chemistry; Biomedicine; Clinical chemistry; Electronics; Oceanography; *SP351*. **SP305-4.**
- Solid State Chemistry; Chalcogenides; Crystallographic shear; Electron optical lattice images; Lone pair geometry; Non-stoichiometry; Oxides; Refractory hard metals; *SP364*. **SP305-4.**
- Solid state counters; Tests; X-ray spectra; X-ray spectrometers; Electron diffraction; Electron probes; Evaluation; Gas flow; Lithium; Microanalysis; Multichannel analyzer; Proportional counters; Quantitative analysis; *12251*. **SP305-3.**
- Solid state data; Standard reference data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Development; Information services; Mechanical properties; Nuclear data; *TN448*. **SP305-1.**
- Solid state data; Standard reference data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; Mechanical properties; Nuclear data; *TN553*. **SP305-2.**
- Solid state data; Standard reference data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Mechanical properties; Nuclear data; *TN881*. **SP305-7.**
- Solid state data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Mechanical properties; Nuclear data; Standard reference data; *TN747*. **SP305-4.**
- Solid state detectors; Electronic data handling; NBS reactor; NBS Linac; Cockcroft-Walton generator; Digital computer; Activation analysis; Standard reference materials; Photon neutron reactions; Flux monitors; Cu, Se, Al, V in irons and steels; *TN404*. **SP305.**
- Solid state detectors; Standard reference materials; Tin standard for chemical shift; Computers; Cross sections; Detection limits for analysis; Flux monitors; Mossbauer instrumentation; Mossbauer spectroscopy; NBS Linac; Nickel-61; *TN42*. **SP305.**
- Solid state diffusion; Transport in solids; Electrochemistry; Gibbs-Duhem; Local equilibrium; Nonequilibrium thermodynamics; Oxidation of metals; *14286*. **SP305-6.**
- Solid state noise source; Stability measure; Allan variance; Argon gas noise source; Cross correlation; *15666*. **SP305-7.**
- Solid state noise source; Stability; Silicon avalanche diode; *16500*. **SP305-8.**
- Solid state physics; Transport properties; Einstein function; Electrical resistivity; Gruneisen function; *J74B No. 3, 171-182 (1970)*. **SP305-2.**
- Solid state plasma; Electron avalanche; Electron tunneling; Alternating fields; Laser damage of GaAs; Laser damage processes; Laser-induced surface damage; Parametric plasma instability; Resonant plasmon-photon interaction; *SP387*, pp. 217-224. **SP305-5.**
- Solid state plasma; Two-stream instability threshold; Damage threshold of GaAs; Extended Shockley avalanche; Pulsed laser damage; Semiconductor infrared windows; *SP414*, pp. 200-206. **SP305-6.**
- Solid state polymerization; Trioxane; Annealing of polyoxymethylene; Polyoxymethylene; Polyoxymethylene crystals; *12508*. **SP305-4.**
- Solid state polymerization; Trioxane; Electret domains; Polyoxymethylene crystals; Radiation damage; *13876*. **SP305-6.**
- Solid state polymerization; Trioxane crystals; Dielectric loss; Dielectric relaxation; Molecular motions; Nuclear magnetic resonance absorption; Polyoxymethylene crystals; *1535*. **SP305-7.**
- Solid state properties; Thermodynamic and transport properties; Accession list; Atomic and molecular properties; Chemical kinetics; Colloid and surface properties; Fundamental particles properties; General collections; Mechanical properties; Nuclear properties; *TN554*. **SP305-2.**
- Solid state reactions; Stress-corrosion cracking; Titanium 8-1 alloy; Corrosion products; High temperature corrosion; Preoxidation; Salt stress corrosion; *9901*. **SP305-1.**
- Solid state research; Stoichiometry; Trace analysis; Analytical chemistry; Electronic materials; Materials characterization; *SP351*, pp. 19-77. **SP305-4.**
- Solid state switch; Peak pulse power measurement; Sample power measurement; *12295*. **SP305-3.**



Solid substance; Sublimation; Sublimators; Analogous to distillation; Analysis-sublimation; Condensation temperatures; 1984. **SP305-1.**  
 Solid surface fluorimetry; Enzymes, fluorometric analysis; Fluorimetry of enzymes; Fluorimetry of substrates; Silicone pad; *SP378*, pp. 197-202. **SP305-5.**  
 Solid surface fluorimetry; Enzymes, fluorometric analysis; Fluorimetry of enzymes; Fluorimetry of substrates; Silicone pad; *J76A No. 6*, 607-612 (1972). **SP305-4.**  
 Solid waste disposal; Technology assessment; Engineering education; *13974*. **SP305-6.**  
 Solid xenon; Thermal expansion coefficient; Corresponding states; Lattice vibration spectrum; Solid argon; Solid krypton; 9957. **SP305-1.**  
 Solid-earth geophysics; Atmospheric physics; Aurora; *10862*. **SP305-1.**  
 Solidification; Crystal growth; Grain boundary; Morphological stability; *13661*. **SP305-5.**  
 Solidification; Stability; Alloy; Boundary layer; Fluid flow; Interface; *15766*. **SP305-8.**  
 Solidification; Stability; Alloy; Grain boundary; Morphology; *13659*. **SP305-5.**  
 Solidification; Stability; Grain boundary; Morphology; *15844*. **SP305-8.**  
 Solidification; Stability; Surface tension; Alloys; Anisotropy; Interface kinetics; *16213*. **SP305-8.**  
 Solidified gases; Solid methane; Thermal conductivity; Instrument; Solid argon; Solid deuterium; *12523*. **SP305-4.**  
 Solid/liquid interface; Surfaces; Zeta-potential; Electrokinetic potential glass; Interface; Liquid/solid interface; *14732*. **SP305-7.**  
 Solids; Aluminum; Bismuth; Electron energy loss; Gallium; Gold; Indium; Liquids; Mercury; *11088*. **SP305-2.**  
 Solids; Bond-distance; Frequency-dependent proton NMR line shapes; Indirect quadrupole interaction; *10716*. **SP305-1.**  
 Solids; Characteristic energy losses; Comparison with optical data; Cross sections; Inelastic scattering; Kilovolt electrons; Liquids; *10270*. **SP305-1.**  
 Solids; Electron scattering; *10744*. **SP305-1.**  
 Solids; Spark source; Trace elements; Fluctuations; Homogeneity; Ion sensitive emulsion; Mass spectrometry; Precision; Quantitative analysis; *12127*. **SP305-3.**  
 Solids; Statistics; Background; Electrical detection; Electrical discharge; Ion probe; Ion sensitive plates; Mass spectrometry; Pelletizing; Precision; Relative sensitivity; Sample homogeneity; *10814*. **SP305-1.**  
 Solids; Thermal conductivity; Gases; Liquids; Metals; *NSRDS-NBS8*. **SP305.**  
 Solids; Ultrasonic measurements; Equation of state; High pressure; Liquids; *12497*. **SP305-4.**  
 Solids; Ultrasonics; Bulk modulus; Density; Dilatometric measurements; High pressure; Liquids; *SP326*, pp. 11-22. **SP305-3.**  
 Solids; X-ray photoelectron spectroscopy; Attenuation lengths; Auger-electron spectroscopy; Inelastic cross sections; Inelastic electron scattering at low energies; *14453*. **SP305-6.**  
 Solids, density measurements; Specific gravity; Density; Dilatometry; Gases, density measurements; Liquids, density measurements; *10098*. **SP305-1.**  
 Solids mass spectrometer; Electron probe microanalyzer; NBS white cast iron sample (SRM 1175); Stainless steel powder metallurgy compact; Optical metallography; Macroanalytical techniques; Optical emission; X-ray spectrochemical analysis; *M260-12*. **SP305.**  
 Solids mass spectrometer; Standards of composition; Electron probe microanalyzer; Homogeneity—standards; NBS cartridge brass; NBS low-alloy steel; Optical metallography; *10806*. **SP305-1.**  
 Solids sound speed accuracy; Speed of sound; Transient pulse-acoustical; Acoustical pulse; Longitudinal and shear sound waves; *J75C No. 1*, 33-40 (1971). **SP305-3.**  
 Solid-state phase transformation; Thermodynamics; Zirconium; Electrical resistivity; High-speed measurements; High temperature; *J79A No. 1*, 81-84 (1975). **SP305-7.**  
 Solid-state; Amplifiers; Basic characteristics; Microwave; Oscillators; *TN518*. **SP305-2.**  
 Solid-state; Theoretical physics; Thermally activated processes; Twinning; Conference; Continuum mechanics; Crystal physics, dislocations; Dislocations; Elasticity; Electron-dislocation interactions; Lattice defects; Phonon-dislocation interactions; *SP317*. **SP305-3.**  
 Solid-state detectors; Spectrophotometry; Dose distribution; Dosimetry; Dyes; Electron beams; Gamma rays; Glasses; Plastics; Radiation chemistry; Radiation sterilization; *14734*. **SP305-7.**  
 Solid-state devices; X-band measurements; Diodes; Gamma rays; Hardness assurance; Microwave mixer diodes; Mixers; Neutrons; Radiation hardness; Receivers; Schottky-barrier diodes; Semiconductors; *SP400-7*. **SP305-8.**  
 Solid-state laser rods; Holography; Photography; Ruby rod; *11736*. **SP305-2.**  
 Solid-state overcurrent protection circuit; Transformer; Transformer overcurrent protection; High voltage transformer protection; Overcurrent; Overcurrent protection; *16381*. **SP305-8.**  
 Solid-state transference; Constant-current coulometry; Electrochemical generation; Fluoride; Lanthanum fluoride membrane; *10635*. **SP305-1.**  
 Solid-state transformations; Solution calorimetry; Specific heat; Spectral emittance; Transition alloys; Vapor pressure; Electrical resistivity; Iron; Molybdenum pentafluoride; Partly associated vapors; *NBSIR 73-281*. **SP305-6.**  
 Solid-state transitions; Superconducting temperature calibration; Thermometric fixed points; Antiferromagnetism; Ferroelectricity; *15353*. **SP305-7.**  
 Solid-to-solution ratio; Solubility; Surface chemistry; Hydroxyapatite; Nonstoichiometry; *15195*. **SP305-7.**  
 Solid-vapor; Cryogenic; Helium-krypton; Liquid-vapor; Phase equilibria; *12871*. **SP305-4.**  
 Solid-vapor; Experimental; Helium-methane; Low temperature; Phase-equilibrium; *9230*. **SP305.**  
 Solid-vapor; Thermodynamic properties; Three-phase loci; Apparatus; Argon-methane data; Liquid-vapor; Low temperature; Phase equilibrium; *11735*. **SP305-2.**  
 Solid-vapor; Tube; Two-phase; Boundary layer; Cryogenic; Heat transfer; Hydrogen; Low pressure; Nitrogen; Particle-wall interaction; *11505*. **SP305-2.**  
 Solid-vapor; Tube; Two-phase flow, pickups; Cryogenics; Dimensional analysis; Heat transfer; Hydrogen; Low pressure; *9814*. **SP305-1.**  
 Solid-vapor; Two-phase; Boundary layer; Computation; Dispersed flow; Heat transfer; *11517*. **SP305-2.**  
 Solid-vapor equilibria; Unlike molecule interactions; Binary systems; Cryogenic fluids; Interaction second virial coefficients; Review; *15188*. **SP305-7.**  
 Solid-vapor equilibria; Vapor pressures; Combining rule correlation; Cryogenic; Enhancement factor theory; Review; *11747*. **SP305-2.**  
 Solid-vapor equilibrium; Low-temperature phase-equilibrium; Methane; Minimum gas phase equilibrium concentration; Neon; Neon-methane binary system; *9461*. **SP305.**  
 Solid-vapor equilibrium; Solubility of hydrogen in liquid ethane; Ethane; Hydrogen; Hydrogen-ethane system; Liquid-vapor equilibrium; Low temperature phase equilibrium; *10754*. **SP305-1.**  
 Solid-vapor equilibrium; Solubility of hydrogen in liquid ethylene; Ethylene; Hydrogen; Hydrogen-ethylene system;

- Liquid-vapor equilibrium; Low-temperature phase equilibrium; 10986. **SP305-2.**
- Solid-vapor mixture; Sub-triple point; Tubes; Flow; Hydrogen; Nitrogen; Solid plug; 11008. **SP305-2.**
- Solubilities; Ternary system; X-ray investigations; Binary system; Boron; Carbon; Chemical analysis; Melting-point determination; Metallography; Phase-field division; Silicon; *SP364*, pp. 505-513. **SP305-4.**
- Solubility; Bone mineral; Dental caries; Electric currents; Mechanism; 14985. **SP305-7.**
- Solubility; Calcium carbonates; Calcium phosphates; Hydroxyapatite; Limnetic phosphate; Phase diagrams; Phosphate pollution; 13521. **SP305-5.**
- Solubility; Carbonates; Equilibria; Hydroxide carbonates; Hydroxides; Oxides; Sea water; 10782. **SP305-1.**
- Solubility; Clinical research; Composites; Color stability; Dental materials; Reinforced resins; Silicate cements; 10848. **SP305-1.**
- Solubility; Dimethylmercury; Partition coefficient; Sea water; 15944. **SP305-8.**
- Solubility; Solubility isotherms; Solubility product; Apatite; Hydroxyapatite; Calcium phosphates; *J.72A No. 6*, 773-782 (1968). **SP305-1.**
- Solubility; Solubility isotherms; Solubility product; Calcium phosphate; Dicalcium phosphate dihydrate; Ion pairs; *J.74A No. 4*, 461-475 (1970). **SP305-2.**
- Solubility; Solubility product; Synovial fluid; Calcium dihydrophosphate; Calcium pyrophosphate; Chondrocalcinosis; Pseudogout; 16230. **SP305-8.**
- Solubility; Space simulation; Temperature effect; Tests; Viscosity; Electron damage; Electron energy; Electron spin resonance; Evaluation; Gel; Mechanical properties; Optical properties; Plastic films; Poly(ethylene terephthalate); *SP336*, pp. 323-344. **SP305-3.**
- Solubility; Surface; Amorphous calcium phosphate; Bone mineral; Fluorapatite; Hydroxyapatite; Morphology; Non-stoichiometry; Octacalcium phosphate; 16307. **SP305-8.**
- Solubility; Surface chemistry; Hydroxyapatite; Non-stoichiometry; Solid-to-solution ratio; 15195. **SP305-7.**
- Solubility; Tooth enamel; Dental caries; Hydroxyapatite; Ion activity product; 15535. **SP305-7.**
- Solubility; Tris(hydroxymethyl)aminomethane; Dissociation constant; Medium effect; Methanol-water solvents; *J.72A No. 2*, 141-148 (1968). **SP305-1.**
- Solubility; Uranium; Intermetallic compound; Phase diagram; Ruthenium; *J.72A No. 1*, 1-10 (1968). **SP305-1.**
- Solubility; Uranium; Intermetallic compounds; Phase diagram; Rhodium; *J.72A No. 1*, 11-17 (1968). **SP305-1.**
- Solubility; Uranium; Intermetallic compounds; Iridium; Phase diagram; *J.72A No. 1*, 19-25 (1968). **SP305-1.**
- Solubility and disintegration; Zinc oxide-eugenol cement; Filling material; *o*-ethoxybenzoic acid; 9596. **SP305-1.**
- Solubility isotherm; Calcium; Hydroxyapatite; Phosphate; 9212. **SP305.**
- Solubility isotherms; Solubility product; Apatite; Hydroxyapatite; Calcium phosphates; Solubility; *J.72A No. 6*, 773-782 (1968). **SP305-1.**
- Solubility isotherms; Solubility product; Calcium phosphate; Dicalcium phosphate dihydrate; Ion pairs; Solubility; *J.74A No. 4*, 461-475 (1970). **SP305-2.**
- Solubility isotherms; Thermal coefficient of solubility; Beta-tricalcium phosphate; preparation; Solubility, solubility product, stoichiometry of; Dissolution, thermodynamics of; Ion pairs; Singular points; *J.78A No. 6*, 667-674 (1974). **SP305-6.**
- Solubility of anhydrous dicalcium phosphate; Solubility of calcium monohydrogen phosphate; Solubility of dibasic calcium phosphate; Solubility of dicalcium phosphates; Calcium-phosphate ion pairs; 12463. **SP305-4.**
- Solubility of calcium monohydrogen phosphate; Solubility of dibasic calcium phosphate; Solubility of dicalcium phosphates; Calcium-phosphate ion pairs; Solubility of hydrous dicalcium phosphate; 12463. **SP305-4.**
- Solubility of dibasic calcium phosphate dihydrate; Solubility of calcium monohydrogen phosphate dihydrate at 37.5 °C; Calcium-phosphate ion-pairs; Solubility of dicalcium phosphate dihydrate; *J.70A6-426*, 545-552 (1966). **SP305.**
- Solubility of dibasic calcium phosphate; Solubility of dicalcium phosphates; Calcium-phosphate ion pairs; Solubility of hydrous dicalcium phosphate; Solubility of calcium monohydrogen phosphate; 12463. **SP305-4.**
- Solubility of dibasic calcium phosphate dihydrate; Solubility of calcium monohydrogen phosphate dihydrate at 37.5 °C; Calcium-phosphate ion-pairs; Solubility of dicalcium phosphate dihydrate; *J.70A6-426*, 545-552 (1966). **SP305.**
- Solubility of dicalcium phosphate dihydrate; Solubility of dibasic calcium phosphate dihydrate; Solubility of calcium monohydrogen phosphate dihydrate at 37.5 °C; Calcium-phosphate ion-pairs; 12463. **SP305-4.**
- Solubility of enamel; Caries models; Dental caries; Phase diagrams; Physicochemical mechanism; 14141. **SP305-6.**
- Solubility of helium in liquid methane; Helium; Helium-methane binary system; Liquid-vapor equilibrium; Low-temperature; Methane; Phase-equilibrium; 10174. **SP305-1.**
- Solubility of hydrogen in liquid ethane; Ethane; Hydrogen; Hydrogen-ethane system; Liquid-vapor equilibrium; Low-temperature phase equilibrium; Solid-vapor equilibrium; 1074. **SP305-1.**
- Solubility of hydrogen in liquid ethylene; Ethylene; Hydrogen; Hydrogen-ethylene system; Liquid-vapor equilibrium; Low-temperature phase equilibrium; Solid-vapor equilibrium; 10986. **SP305-2.**
- Solubility of water vapor in air; Water vapor; Concentration of saturated water vapor in air; Enhancement factor; Moisture content of saturated air; Saturated air; *J.77A No. 115-131* (1973). **SP305-5.**
- Solubility parameters; Energy of vaporization; Internal energy of vaporization; Molecular vaporization; Organic plasticizers; Plasticizers; 11564. **SP305-2.**
- Solubility product; Apatite; Hydroxyapatite; Calcium phosphates; Solubility; Solubility isotherms; *J.72A No. 6*, 773-782 (1968). **SP305-1.**
- Solubility product; Calcium phosphate; Dicalcium phosphate dihydrate; Ion pairs; Solubility; Solubility isotherms; *J.74A No. 4*, 461-475 (1970). **SP305-2.**
- Solubility product; Surface; Bone mineral; Calcium phosphate; Hydroxyapatite; *J.77A No. 1*, 149-155 (1973). **SP305-5.**
- Solubility product; Synovial fluid; Calcium dihydrophosphate; Calcium pyrophosphate; Chondrocalcinosis; Pseudogout; Solubility; 16230. **SP305-8.**
- Solubility product; System  $\text{Ca}(\text{OH})_2 - \text{H}_3\text{PO}_4 - \text{H}_2\text{O} - \text{NaCl}$  Brushite;  $\text{CaHPO}_4 \cdot 2\text{H}_2\text{O}$ ;  $\text{NaHPO}_4^-$  ion pair; *J.78A No. 6*, 675-681 (1974). **SP305-6.**
- Solubility, solubility product, stoichiometry of; Dissolution thermodynamics of; Ion pairs; Singular points; Solubility isotherms; Thermal coefficient of solubility; Beta-tricalcium phosphate, preparation; *J.78A No. 6*, 667-674 (1974). **SP305-6.**
- Solubility-enhancement; Steam; Van der Waals' equation; Ammonia; Dense gases; Equation of state; Hydrogen; Nitrogen; Mercury vapor; Noble gases; 11742. **SP305-2.**
- Solubilization; Standard values; Surface active agents; Surface chemistry; Surface tension; Surfactant; Association colloids; Bibliography; CMC; Colloid; Colloidal electrolyte; Critical

- concentration; Critical micelle concentration; Detergent; *NSRDS-NBS36*. SP305-3.
- luteal-capillary; Thermal capillary convection; Vacuum vaporization;  $Al_2O_3$ ; Complex equilibria; Convective-diffusion; Evaporative rate; Purification (evaporative); *13923*. SP305-6.
- luteal-capillary; Thermal capillary convection; Vacuum vaporization;  $Al_2O_3$ ; Complex equilibria; Convective diffusion; Evaporative rate; Purification (evaporative); *15968*. SP305-8.
- lute; Stability; Surface tension; Aqueous solutions; Cylinder; Ice; *11889*. SP305-3.
- lute atoms; Vacancies; Correlation factors; Diffusion; Dilute alloys; Impurities; Jump frequencies; *9464*. SP305.
- lute diffusion; Surface tension; Cylinder; Ice; Interface kinetics; Morphological stability; *J.73A No. 1, 65-68 (1969)*. SP305-1.
- lute distribution; Thermal convection; Crystal growth; Fused salts; Magnetic fields; Molten metals; *9513*. SP305.
- lute segregation; Super-purity metals; Aluminum; Electrical resistivity; Grain boundaries; *11818*. SP305-3.
- lute segregation; Super-purity metals; Aluminum; Electrical resistivity; Grain boundaries; Recrystallization; *11635*. SP305-2.
- lute; Applications; Generalizations; Helium; Hyperspherical coordinates; Power series; Schrödinger equation; *10199*. SP305-1.
- lute; Calcium hydroxide; Crystal growth; Crystals, electrochemical; Electrolysis; *16302*. SP305-8.
- lute; Strength; Stress; Coaxial; Deflection; Flexure; Glass; Numerical; Plate; Ring; *12460*. SP305-4.
- lute; Surface free energy; Theory; Thermodynamics; Bulk; Chain fold; Crystallization; Fluctuation; Growth; Heat of melting; Homogeneous nucleation; Kinetics; Lamella thickness; Melt; Melting point; Nucleation; Polymer; *11329*. SP305-2.
- lute; Theory; Diffusion coefficient; Polymer; *9425*. SP305.
- lute adsorption; Adsorption from solution; Calcium phosphate; Composite adsorption; Isotopic exchange; Kinetics of adsorption; Mechanism of adsorption; *12249*. SP305-3.
- lute calorimetry; Specific heat; Spectral emittance; Transition alloys; Vapor pressure; Electrical resistivity; Iron; Molybdenum pentafluoride; Partly associated vapors; Solid-state transformations; *NBSIR 73-281*. SP305-6.
- lute calorimetry; Standard reference material; THAM; TRIS; Tris(hydroxymethyl)aminomethane; Thermochemistry; Enthalpy of reaction; Heat of solution; *J.77A No. 5, 581-597 (1973)*. SP305-5.
- lute calorimetry; Standard reference material; Tris(hydroxymethyl)aminomethane; Thermochemistry; Enthalpy of reaction; *J.77A No. 5, 599-606 (1973)*. SP305-5.
- lute calorimetry; Thermochemistry; Adiabatic solution calorimeter; Enthalpy of reaction of  $H_2SO_4$  in aqueous NaOH;  $H_2SO_4$ ; enthalpy of reaction in NaOH(aq); *J.77A No. 5, 179-203 (1973)*. SP305-5.
- lute calorimetry; Thermochemistry; AgBr; AgCl; AgI; AgNO<sub>3</sub>; Enthalpy of dilution; Enthalpy of precipitation; Enthalpy of solution; Entropy; Heat of reaction; KBr; KCl; *J.77A No. 5, 569-579 (1973)*. SP305-5.
- lute critical point; Van der Waals mixtures; Viscosity; Heat capacity; *9671*. SP305-1.
- lute crystallization; Crystal morphology; Crystallization; Electron microscopy; Optical microscopy; Polychlorotrifluoroethylene; *J.78A No. 3, 363-373 (1974)*. SP305-6.
- lute grown; Chain-folded; Crystal; Curved; Electron microscopy; Optical microscopy; Polymer; Polyoxymethylene; *J.78A No. 2, 95-127 (1974)*. SP305-6.
- Solution grown; X-ray diffraction microscopy; Dislocations; KD\*P; Lang technique; *14156*. SP305-6.
- Solution growth; Crystal perfection; Diffraction topography; Single crystals; *9670*. SP305-1.
- Solution hardening; Upper yield point; Zone-refined iron; Flow stress; Impurity softening; Lattice solution; Lower yield stress; Nitrogen; Polycrystals; *11946*. SP305-3.
- Solution or vapor; Spherical shapes; Vapor; Cylindrical and spherical shapes; *9643*. SP305-1.
- Solution properties; End-to-end distance; Light scattering; Linear polyethylene;  $M_w$ ; Polyethylene fractions; Second virial coefficient; *J.76A No. 2, 156-160 (1972)*. SP305-4.
- Solution properties; Viscoelasticity; Zimm theory; Bead-spring model; Block-copolymers; Dilute solutions; Dynamics; Limiting viscosity number; *15373*. SP305-7.
- Solution properties; Viscoelasticity; Bead-spring model; Block copolymers; Concentrated solutions; Dynamics; Rouse theory; *15590*. SP305-7.
- Solution, solid; Argon; Calorimetry; Critical phenomena; Heat capacity; Methane; Mixture, binary; *13161*. SP305-5.
- Solution standards; Emission spectra; Excitation spectra; Fluorescence; Fluorescence standards; Glass standards; Quinine derivatives; Rare earths; Relative quantum efficiencies; *SP378*, pp. 231-244. SP305-5.
- Solution standards; Emission spectra; Excitation spectra; Fluorescence; Fluorescence standards; Glass standards; Quinine derivatives; Rare earths; Relative quantum efficiencies; *J.76A No. 6, 641-654 (1972)*. SP305-4.
- Solution viscosity; Viscometer; 1-chloronaphthalene; 1,2,4-trichlorobenzene; Decalin; Limiting viscosity number; Linear polyethylene; *J.76A No. 2, 147-149 (1972)*. SP305-4.
- Solution-grown; Chain-folded; Crystal, curved; Electron microscopy; Lamellar; Optical microscopy; Poly(4-methylpentene-1); Polymer; *J.76A No. 3, 225-252 (1972)*. SP305-4.
- Solution-grown crystals; Ammonium dihydrogen phosphate; Crystal defects; Crystal growth; Crystal-growth forms; Mother-liquor inclusions; Occlusions in crystals; Sodium chlorate; *10856*. SP305-1.
- Solutions; Deuterium oxide; Potassium chloride; Salt mixtures; Sodium chloride; *11437*. SP305-2.
- Solvability; Commutator subgroups; Inclusion theorems; Modular groups; Quotient groups; *14194*. SP305-6.
- Solvable group; Character; Cosets; Matrix representation; Nilpotent group; Normalizer; *J.76B Nos. 1 and 2, 45-50 (1972)*. SP305-4.
- Solvable groups; 2-generator groups; Density; *12001*. SP305-3.
- Solvated electron; Alcohols; Chemical kinetics; Data compilation; Radiation chemistry; Rates; *NSRDS-NBS42*. SP305-4.
- Solvated electrons; Conduction band; Drift mobility; Energy levels; Excess electrons; Hydrocarbons; Ion mobility; Liquids; Mobility; Quasifree electrons; *NSRDS-NBS58*. SP305-8.
- Solution; Collagen; Denaturation; Dilatometry; Hydration; Partial specific volume; *10300*. SP305-1.
- Solution; Sucrose solutions; Hydration; Mixed solutions; Nonelectrolytes; *9512*. SP305.
- Solvation; Tris(hydroxymethyl)aminomethane; Acidic dissociation; Dissociation constant; Emf measurements; Ionization processes; N-methylpropionamide; *13712*. SP305-5.
- Solvation of ions; Solvent effect; Transfer energy; Acidity; Medium effects; Mixed solvents; *10827*. SP305-1.
- Solvatochromic relationship; Ultraviolet and visible spectroscopy; Aromatic amine; Benzene derivative; Charge-transfer complex; Dental materials; Electron affinity; Electron spin resonance spectroscopy; *J. Res. 80A No. 2, 173-187 (1976)*. SP305-8.
- Solvatochromism; Acid-base indicators; Acidity in nonaqueous solvents; Aprotic solvents; Methyl Yellow; Nile Blue A and derivatives; Nile Blue oxazone; Nonaqueous acid-base spec-

- trophometry; Nonaqueous acid-base titrations; Phenyl diethyl Nile Blue; 9660. **SP305-1.**
- Solvent; Spin coupling constants; Fluorine; Fluorosilanes; Nuclear magnetic resonance;  $\text{SiF}_4$ ; Silicon; 9648. **SP305-1.**
- Solvent; Substoichiometric radioisotope dilution; Trace; Zinc; Cadmium; Coulometry; Extraction; Microanalysis; 10664. **SP305-1.**
- Solvent; Temperature; Time; Unit cell; Annealing; Crystallization; Deformation; Density; Fold surface; Melt; Polyethylene; 10897. **SP305-2.**
- Solvent; Unit cell; Alpha; Density; Lamella thickness; Polyethylene; Relaxation; 12577. **SP305-4.**
- Solvent; Unit cell; Annealing; Density; Lamella thickness; Mechanical; Polyethylene; Relaxation; 12824. **SP305-4.**
- Solvent effect; Transfer energy; Acidity; Medium effects; Mixed solvents; Solvation of ions; 10827. **SP305-1.**
- Solvent effects; Acid-base; Ammonia; Ammonium; Buffer solutions; Dissociation constant; Electrolytes; Ionization; Methanol; Nonaqueous; 9977. **SP305-1.**
- Solvent effects; Acidity; Analysis; Conductance measurements; Electrochemical analysis; Electrochemistry of solutions; Ionic activity; Ion-selective electrodes; PD measurements; PH measurements; Medium effects; *TN453*. **SP305-1.**
- Solvent effects; Chemical shift; Coupling constant; Double resonance; Fluorine; Fluorosilanes; Nuclear magnetic resonance; Silicon; Spin-coupling; 10374. **SP305-1.**
- Solvent effects; Standard reference materials; Acidity; Analysis; Conductivity; Electrochemical analysis; Electrochemistry of solutions; Ionic activity; Ion-selective electrodes; PD measurements; PH measurements; Medium effects; *TN503*. **SP305-1.**
- Solvent effects; Substituted phenols; Dissociation constant; Methanol-water mixtures; *J70A6-427*, 553-556 (1966). **SP305.**
- Solvent effects; Ultraviolet absorption; Carbon tetrachloride; Cyclohexane; Ethylbenzene; Extinction coefficient; Polymer; Polystyrene; *J71A2-449*, 169-175 (1967). **SP305.**
- Solvent extraction; Activation analysis;  $\text{Ge(Li)}$  detector; 15459. **SP305-7.**
- Solvent extraction; Cerium; Linac; Praseodymium; Precipitation; Radioactive; Rapid separation; 10387. **SP305-1.**
- Solvent extraction; Environmental matrices; Extraction yields; Mercury; Neutron activation analysis; Organomercury; *SP422*, pp. 1233-1240 (Aug. 1976). **SP305-8.**
- Solvent extraction; Group IIIB-VIIB elements; HDEHP; Hydrochloric acid; Lanthanides; Nitric acid; Perchloric acid; 11425. **SP305-2.**
- Solvent extraction; Group VIII; HDEHP; Hydrochloric acid; IB and IIB elements; Nitric acid; Perchloric acid; 11705. **SP305-2.**
- Solvent extraction; Technetium; Tungsten; Activation analysis; Molybdenum; Radiochemistry; 11462. **SP305-2.**
- Solvent extraction; Trace analysis; Uranium; Biological materials; Neutron activation analysis; Rapid radiochemical separation; 12817. **SP305-4.**
- Solvent extraction; Tribenzylamine; Analysis; Biological materials; Chloroform; Chromium; Environmental materials; Neutron activation; Radiochemical separation; 15409. **SP305-7.**
- Solvent removal; Spray; Atomizer; Nebulizer; Pneumatic aspirator; Sample introduction; 11173. **SP305-2.**
- Solvent type paint; Styrene-acrylate resin; Styrene-butadiene resin; Chlorinated paraffin; Infrared spectroscopy; 11423. **SP305-2.**
- Solvents; Analysis; Atomic absorption; Detection limits; Electroless discharge; Interferences; Nebulizer-burner; Organic ligands; Releasing agents; 11427. **SP305-2.**
- Solvents; Stability; Tetrapyrroles; Bilirubin; Bilirubin-lanthanide complexes; Bilirubin-transition metal complexes; Biliverdin; 12512. **SP305-4.**
- Solvents for phosphorimetry; Aqueous solvents phosphorimetry; Phosphorimetry; Rotating capillary cell; *SP378*, pp. 169-182. **SP305-5.**
- Solvents for phosphorimetry; Aqueous solvents phosphorimetry; Phosphorimetry; Rotating capillary cell; *J76A No. 6*, 579-592 (1972). **SP305-4.**
- Sonic boom; Damage by sonic booms; Noise pollution; 134. **SP305-5.**
- Sonic boom; Vehicular collision; Bombs; Building code; Design criteria; Explosions; Gas; Hazardous materials; Load; Progressive collapse; *BSS589*. **SP305-8.**
- Sonic bubble chamber; Bubble chamber; Helmholtz resonator; Rapid-cycling bubble chamber; 13821. **SP305-6.**
- Sonic flow; Heat pipe oven; Resonance fluorescence spectrometer; 13865. **SP305-6.**
- Sonic machining; Vibrational machining; Wheel machining; Abrasive; Ceramic machining; *SP348*, pp. 133-139. **SP305-5.**
- Sonic velocity; Adiabatic compressibility; Hydrogen; 92. **SP305.**
- Sonicated solution; Spinning; Stirred solution; Crystallization; Cylindrite; Drawing of swollen polymer solid; Epitaxial overgrowth; Extrusion; Hard elastomer; Nucleation; Orient melt; Rheological unites; Row nucleus; Shishkebab; 1627. **SP305-8.**
- Sorber; Solid; Work atmosphere; Air analysis; Air sampling; Gas analysis; Hydrogen fluoride; Industrial hygiene; Sodium acetate; *NBSIR 74-581*. **SP305-7.**
- Sorber; Work atmosphere; Air analysis; Air sampling; Gas analysis; Industrial hygiene; Phosphine; *NBSIR 75-977*. **SP305-3.**
- Sorber, solid; Work atmosphere; Air analysis; Air sample; Charcoal; Chlorine; Fluorine; Gas analysis; Hydrogen cyanide; Hydrogen fluoride; Industrial hygiene; Phosphine; Sodium acetate; *NBSIR 74-527*. **SP305-6.**
- s-orbital density of states; Electron density of states; Gold allimide ( $\text{AuAl}_2$ ); Gold-gallium ( $\text{AuGa}_2$ ); Gold-indium ( $\text{AuIn}_2$ ); Intermetallic compounds  $\text{CsCl}$  structure; L spectrum; *SP223*, pp. 303-305. **SP305-4.**
- Sorption; Crazing; Crystalline polymer solid; Diffusion; Elast deformation; Permeability; Plastic deformation; 1523. **SP305-7.**
- Sorption; Steam point; Temperature standards; Thermodynamic; Kelvin Temperature Scale; Gas thermometry; International Practical Temperature Scale of 1968; *J77A No. 4*, 383-391 (1973). **SP305-5.**
- Sorption; Steam point; Thermodynamic temperature scale; Gas thermometer; 13588. **SP305-5.**
- Sorption; Surface area; Teeth; Water vapor; Adsorption; Dental materials; Hysteresis; 13321. **SP305-5.**
- Sorting; Freight operations; GPSS; Railroads; Scheduling; SIMSCRIPT; Simulation; 9427. **SP305.**
- Sorting networks; Decision networks; Minimum delay programs; Network; Network optimization; Optimal sorting; 13193. **SP305-5.**
- Souder, Wilmer; Specifications, dental; Amalgam, dental; American Dental Association; Casting, dental; Dental research; Dental Research Section. NBS; Guest workers; Paulsenbarger, George C.; Schoonover, Irl C.; *SP354*, pp. 7-1. **SP305-4.**
- Sound; Acoustic properties of liquids; Acoustics; Knest liquids; Normal liquids; 16170. **SP305-8.**
- Sound; Acoustical measurements; Acoustics; National measurement system; Noise; Noise control; Noise emission; 1550. **SP305-7.**
- Sound; Acoustics; Diffraction, potential; Piston radiator; Potential diffraction; Radiator, piston; 9319. **SP305.**
- Sound; Acoustics; Environmental control; Measurement; Noise pollution; 12730. **SP305-4.**
- Sound; Acoustics; Environmental pollution; Noise; 1349. **SP305-5.**
- Sound; Acoustics; Noise; 15420. **SP305-7.**



- ound; Construction; Dry weight; Ears; Energy; Health care; Hospitals; Measurement science; Meter; Metric; Pulses; Robot; *DIM/NBS 59*, No. 10, 218-239 (1975). **SP305-7.**
- ound; Sound power; Acoustics; Machinery noise; Noise; *15217. SP305-7.*
- ound; Speed of sound; Velocity of sound; Absorption; Acoustics; Attenuation; Liquids; *13182. SP305-5.*
- ound; Standards organization; Acoustics; Noise; Rating scheme; *SP386, 1976 Edition. SP305-8.*
- ound; Tire noise; Truck tires; Acoustics; Military vehicles; Noise; *14875. SP305-7.*
- ound absorption; Acoustic centers; Attenuation of sound; *15222. SP305-7.*
- ound absorption; Acoustic impedance; Acoustic transmission line; *12911. SP305-4.*
- ound absorption; Argon; Bulk viscosity; Density expansion; Methane; Modified Enskog theory; Molecular correlations; Nitrogen; *16483. SP305-8.*
- ound energy measurement; Sound power measurement; Acoustical measurements; Acoustics; Noise measurement; Reverberation chambers; *14786. SP305-7.*
- ound fields; Acoustical energy density; Acoustics; Diffuse sound fields; Reflection and interference of sound; Room acoustics theory; *16318. SP305-8.*
- ound insulation; Sound pressure level; Walls; Facade; Noise; *TN710-2. SP305-4.*
- ound level meters; Audiometric standards; Building acoustics; Community noise; Earphones; Environmental noise; Instrumentation; Measurement methodologies; Microphones; Psychoacoustics; Reverberation room; *15502. SP305-7.*
- ound level meters; Statistical control processes; Temperature; Acoustic calibrators; A-weighting; Barometric pressure; Crest factor; Ground cover; Humidity; Instrumentation; Microphones; *TN931. SP305-8.*
- ound levels; Acoustics; Noise measurements; *13561. SP305-5.*
- ound measurement; Sound power; Sound power levels; Measurement technology; Reverberation rooms; *NBS-GCR-76-59. SP305-8.*
- ound measurements; Sound transmission; Acoustical instrumentation; Architectural acoustics; Building research; Field measurements; Noise control; *14502. SP305-6.*
- ound power; Acoustic modelling; Acoustics; Impact noise; Noise; Reverberation rooms; Room acoustics; *16433. SP305-8.*
- ound power; Acoustical measurement; Noise control; *13814. SP305-6.*
- ound power; Acoustics; Machinery noise; Noise; Sound; *15217. SP305-7.*
- ound power; Sound power levels; Measurement technology; Reverberation rooms; Sound measurement; *NBS-GCR-76-59. SP305-8.*
- ound power; Statistical room acoustics; Acoustics; Noise; Reverberation room; *TN841. SP305-6.*
- ound power estimation; Error of sound power; Far-field power; Near-field power; *15492. SP305-7.*
- ound power level; Sound pressure level; Automobile; Destructive interference; Directivity; Emergency vehicle; Insertion loss; Masking noise; Siren; *14958. SP305-7.*
- ound power level; Sound pressure level; Acoustics; Air compressor; Internal combustion engine; Noise; *NBSIR 75-653. SP305-7.*
- ound power level; Standard test procedures for sound power measurement; Air compressors; Error of sound power measurement; Noise; Noise measurement; *NBSIR 75-652. SP305-7.*
- ound power levels; Measurement technology; Reverberation rooms; Sound measurement; Sound power; *NBS-GCR-76-59. SP305-8.*
- Sound power measurement; Acoustical measurements; Acoustics; Noise measurement; Reverberation chambers; Sound energy measurement; *14786. SP305-7.*
- Sound pressure level; Acoustics; Air compressor; Internal combustion engine; Noise; Sound power level; *NBSIR 75-653. SP305-7.*
- Sound pressure level; Automobile; Destructive interference; Directivity; Emergency vehicle; Insertion loss; Masking noise; Siren; Sound power level; *14958. SP305-7.*
- Sound pressure level; Truck tire; Directivity; Noise source level; *13808. SP305-6.*
- Sound pressure level; Walls; Facade; Noise; Sound insulation; *TN710-2. SP305-4.*
- Sound propagation; Acoustics; Acoustical holography; Acoustical measurement; Paraholography; Reverberation chambers; *14796. SP305-7.*
- Sound propagation; Acoustics; Aircraft noise; Atmospheric acoustics; Infrasound; Noise propagation; *14247. SP305-6.*
- Sound reduction index; Sound transmission loss; Transmission loss; Airborne sound transmission; Architectural acoustics; Building acoustics; *15708. SP305-8.*
- Sound reproduction; Speech communication; Speech intelligibility; Telephony; Measures of speech quality; Perception of speech; *10524. SP305-1.*
- Sound sensing; Standard; Alarm; Audio alarm; Burglar alarm; Intrusion alarm; Intrusion detector; *16367. SP305-8.*
- Sound studies; Engineering; Environmental; Interference abatement; Laboratory environments; Radiation; *16009. SP305-8.*
- Sound transmission; Acoustical instrumentation; Architectural acoustics; Building research; Field measurements; Noise control; Sound measurements; *14502. SP305-6.*
- Sound transmission; Acoustical measurements; Acoustics; Impact noise; Noise emission; Reverberation rooms; *15501. SP305-7.*
- Sound transmission; Tire noise; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); *14873. SP305-7.*
- Sound transmission; Tire noise; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); *14874. SP305-7.*
- Sound transmission; Tire noise; Transportation noise; Truck; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); *15002. SP305-7.*
- Sound transmission; Tires; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); *12329. SP305-3.*
- Sound transmission loss; Thermal resistance; Thermal transmittance; Windows; Acoustics; Air infiltration; Air leakage; Architectural acoustics; Building acoustics; Doors; Energy conservation; Heat loss from buildings; Heat transfer; *BSS77. SP305-7.*
- Sound transmission loss; Transmission loss; Airborne sound transmission; Architectural acoustics; Building acoustics; Sound reduction index; *15708. SP305-8.*
- Sound velocity; Compressed liquid; Fluorine; Saturated liquid; *13685. SP305-5.*
- Sound velocity; Specific heat ratio; Compressibility; Methane; *14331. SP305-6.*
- Sound velocity; Specific heat ratio; Compressibility; Interferometry; Light scattering; Methane; *15639. SP305-7.*
- Sound velocity; Titanium alloys; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Poisson's ratio; Shear modulus; *14172. SP305-6.*
- Sound velocity; Young modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Plutonium; Plutonium alloy; Poisson ratio; Shear modulus; *16635. SP305-8.*
- Sound velocity; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Nickel-chromium-iron alloys; Poisson's ratio; Shear modulus; *15225. SP305-7.*

- Sound velocity; Young's modulus; Bulk modulus; Chromium alloys; Compressibility; Debye temperature; Doring effect; Elastic constants; Iron alloys; Magnetic transition; Nickel alloys; Poisson's ratio; Pulse-echo method; 15343. **SP305-7.**
- Sound velocity; Young's modulus; Aluminum alloy; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Nickel steels; Poisson's ratio; Shear modulus; 15522. **SP305-7.**
- Sound velocity; Young's modulus; Aluminium; Aluminium alloys; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Elasticity; Poisson ratio; Pulse-echo method; 15528. **SP305-7.**
- Sound velocity; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Nickel-base alloys; Poisson's ratio; Shear modulus; 15533. **SP305-7.**
- Sound velocity; Young's modulus; Bulk modulus; Compressibility; Copper; Copper alloys; Elastic constants; Poisson ratio; Pulse-echo method; Resonance method; Shear modulus; 16505. **SP305-8.**
- Sound velocity oxygen; Specific heat ratio; Compressed liquid; Compressibility; Saturated liquid; 13470. **SP305-5.**
- Sound waves; Auroral; Infrasound; Ionosphere; Microphones; 13231. **SP305-5.**
- Sound waves; Earthquakes, radiation sound; Ionospheric motions; Radiation sound; 9225. **SP305.**
- Sound-level meters; Impact sounds; Meter ballistics; 14449. **SP305-6.**
- Soundpower; Acoustics; Noise; 13812. **SP305-6.**
- Source; Spectra; Ultraviolet; Wavelengths; Magnesium; 13370. **SP305-5.**
- Source; Spectra; Ultraviolet; Wavelengths; Magnesium; 12962. **SP305-4.**
- Source; Temperature; Tungsten; Pyrometry; 13576. **SP305-5.**
- Source and electrons; Synchrotron; X-ray, vacuum ultraviolet; Radiation; 14636. **SP305-6.**
- Source code instrumenting; Static analysis; Transforms; Execution; Execution monitoring; FORTRAN analysis; 15918. **SP305-8.**
- Source data automation; Speech recognition; Audio inputs; Automatic pattern recognition; Character recognition; Communication systems; Data transmission; Graphic inputs; Image enhancement; Remote sensing; *Monogr. 113, Volume 1.* **SP305-2.**
- Source distributions; Calibration; Environmental gamma-rays; Field testing; Instruments; *SP456*, pp. 233-248 (Nov. 1976). **SP305-8.**
- Source function; Spectral lines; Continuous absorption; Non-coherent scattering; Planck function; 10369. **SP305-1.**
- Source kernels; Stress functions; Anisotropic elasticity; Dislocations; Green's tensor; Incompatibility; Internal stress; *SP317*, pp. 89-124. **SP305-3.**
- Source standards; Blackbodies; Lamp standards; Radiometry; Remote sensing; Solar monitoring; 16619. **SP305-8.**
- Source-function; Instrument tube profiles; Equivalent-width; Line depth; Line-profiles; Non-LTE; Optical thickness; Saturation; 11081. **SP305-2.**
- Sources; Building moisture problems; Effects; Evaluation; Morphological research; Movement; *SP361, Vol. 1*, pp. 431-449. **SP305-4.**
- Sources; Spectral irradiance; Filter-spectroradiometer; Measurement techniques; Prism-spectroradiometer; Radiometry; 10428. **SP305-1.**
- Sources; Spectral radiance; Blackbodies; Non-blackbody emission; Optical radiation; Radiometry; 9344. **SP305.**
- Sources; Standards; Survey; Ultraviolet; Detectors; NBS; Radiometry; *SP456*, pp. 107-110 (Nov. 1976). **SP305-8.**
- Sources and spectra; Cross-section data and systematics; Cross-section measurement; Excitation functions; Fast neutrons; Nonelastic interactions; Nuclear reactions; *SP425*, pp. 664-673. **SP305-7.**
- Sources of data; Data centers; Data tabulations; Evaluated data; Material properties; Referral centers; 16007. **SP305-8.**
- Source-sample-detector geometry; Tin compounds; Use of filters; High resolution detector; Mossbauer; Quantitative analysis; 11420. **SP305-2.**
- Source-statement analysis; Syntax analysis; Data archives; Language use; Programming aids; Programming language; *TN797.* **SP305-5.**
- South Asia trade; Testing; Certification; Developing countries; Exports; Industrializing countries; Labeling; Seminar; *SP43* **SP305-8.**
- Soviet electron devices; Semiconductors; Electron devices; Electron tubes; *TN441.* **SP305-1.**
- Soviet Union; Submillimeter waves; High resolution molecular spectroscopy; Lasers; Meeting report; Novosibirsk; Pressure broadened line shapes; 16010. **SP305-8.**
- Soviet Union incentive systems for inventors; Awards to inventors; Employee-inventors; European incentive systems for inventors; Japanese incentive systems for inventors; Legal employee-inventor incentive systems; *SP388*, pp. 167-171. **SP305-6.**
- SO<sub>2</sub>; Air pollutant; Detector, fluorescence; 13525. **SP305-5.**
- SO<sub>2</sub>; Air pollution standards; Calibration mixtures (of gases); Microbubbles; Microstandards; NO; 12908. **SP305-4.**
- SO<sub>2</sub>; Fluorescence; Predissociation; Quenching; 12507. **SP304.**
- SO<sub>2</sub>; Standards; Pollution; Pyrolysis; 14332. **SP305-6.**
- SO<sub>2</sub>; Trimethylene sulfone; 3-methyl sulfonate; Pyrolysis; 15952. **SP305-8.**
- SO<sub>2</sub>; Vacuum ultraviolet; Dissociation; Heats of formation; H<sub>2</sub> ionization; Mass spectrometer; Photoionization; 1090. **SP305-2.**
- SO<sub>2</sub>; Zn lamp; Detection; Fluorescence; H<sub>2</sub>O; 14380. **SP305-6.**
- SO<sub>2</sub><sup>-</sup> anion; Sulfur dioxide; Alkali metal reactions; Charge transfer; Electron capture; Infrared spectrum; Matrix isolation; Molecular orbitals; 12336. **SP305-3.**
- Space; Crystal growing; Crystals; Gravity; Metal; 11605. **SP302.**
- Space; Diving; Hyperbaric; Neutral buoyancy; Simulation; 3 pp. 651-659. **SP305-3.**
- Space; Spattering; Surface contamination; Cleaning; Desorption; Ions; Outgassing; Quartz crystal microbalance; Sol panels; *SP336*, pp. 113-127. **SP305-3.**
- Space; Transportation; Agriculture; Compressed gases; Conservation; Cryogenics; Education; Health; National goals; 1084. **SP305-1.**
- Space; Transportation; Agriculture; Compressed gases; Conservation; Cryogenics; Education; Health; National goals; 1136. **SP305-2.**
- Space; Transportation; Agriculture; Compressed gases; Conservation; Cryogenics; Education; Health; National goals; 1125. **SP305-2.**
- Space age; Metrology; Modern technology; Science comprehension; 9203. **SP305.**
- Space and satellites; Radio service; Satellites and space probes; 9233. **SP305.**
- Space and time correlations; Sunspot cycle trends; Ionospheric prediction; Linear regression; 10956. **SP305-2.**
- Space charge; Aroclor; Chlorinated biphenyl; Chlorinated naphthalene; Electric field measurement; Electro-optic; Hi voltage measurement; Kerr coefficients; Kerr effect; 1638. **SP305-8.**
- Space charge; Automated measurements; Dielectrics; Dielectric measurement; Electric fields; Electro-optics; Hi voltage measurements; Insulating fluids; Kerr effect; Nitrobenzene; Pulse measurements; *NBSIR 75-774.* **SP305.**
- Space charge; Dielectric liquids; Electric field mapping; Hi voltage measurements; Kerr effect; Nitrobenzene; 1444. **SP305-6.**

- space charge; Electric field measurement; Electro-optic Kerr effect; High voltage measurement; Impulse measurement; Kerr constant; Liquid insulators; Nitrobenzene; Peak reading voltmeter; *NBSIR 73-403. SP305-6.*
- space charge; Electric fields; Electrical measurements; High voltage measurements; Insulating liquids; Kerr effect; Nitrobenzene; *14308. SP305-6.*
- space charge; Electrons; Electron beam; Electron energy distributions; *10073. SP305-1.*
- space charge; Spherical deflectors; Anomalous energy spreads; Electron beams; Electron optical limitations; High-resolution electron monochromator; *9871. SP305-1.*
- space charge; Water; Calibration; Electrical measurements; High voltage measurements; Insulating fluids; Kerr coefficient; Nitrobenzene; Pulse voltage measurement; *NBSIR 74-564. SP305-6.*
- space charge regions; Gallium arsenide; Germanium; P-n junctions; Radiative recombination; Silicon; *9519. SP305.*
- space environment; Information center; Interferometric measurements; Optical materials; Physical property changes; *SP336, pp. 949-959. SP305-3.*
- space environment simulation; Ultrahigh vacuum; Anisotropy; Compression tests; Mass spectroscopy; Mechanical properties; Outgassing; Pressure measurements; Rock mechanics; *SP336, pp. 209-223. SP305-3.*
- space environment simulation chambers; Contamination collection units; Gas-liquid chromatography; Infrared spectrometry; Mass spectrometry; Quartz crystal oscillator mass monitors; Radiometry; Reflectometry; *SP336, pp. 25-49. SP305-3.*
- space group; Symmetry condition; Crystallographic point group; Jump rates; Point defects; Relaxation times; *10113. SP305-1.*
- space group; Synthetic sphene; X-ray;  $\text{CaTiGeO}_5$ ;  $\text{CaTiSiO}_5$ ; Crystal; Mineral; *10776. SP305-1.*
- space groups; Crystallography; Crystal point groups; Crystal structure; Lattice complexes; Site sets; *Monogr. 134. SP305-5.*
- space heaters; Burns; Fabric fires; FFACTS; Garments; Ignition sources; *NBSIR 76-1014. SP305-8.*
- space inversion; Time reversal; Charge conjugation; Parity; Relativity; *14388. SP305-6.*
- space management software; University systems; Directory; Equipment management software; Fiscal administration software; Grant/contract software; Personnel management software; Proposal/award software; Research administration; Software exchange; Software summary; *TN916. SP305-8.*
- space manufacturing; Space processing; Zero-g; Materials processing; Perfection; Purity; *NBSIR 73-402. SP305-6.*
- space perception; Audition and ranging; Physiological and psychological acoustics; Psychophysics; *13471. SP305-5.*
- space perception; Auditory localization; Diffraction patterns; Earphone simulation; Human audition; Interaural differences; Minimum audible angle; Psychometric functions; Psychophysics; *14063. SP305-6.*
- space processing; Convection; Crystal growth; Crystal perfection; Microgravity; Purification; *NBSIR 76-980. SP305-8.*
- space processing; Zero-g; Materials processing; Perfection; Purity; Space manufacturing; *NBSIR 73-402. SP305-6.*
- space radiation; Space simulation; Thermal control; High vacuum; Solar cells; *SP336, pp. 935-947. SP305-3.*
- space research; Convective processes; Mars atmosphere exploration; Planetary atmosphere-surface interaction; Planetary meteorology; Research facility; Simulation techniques; *SP336, pp. 699-723. SP305-3.*
- space shuttle; Transducer; Bias pressure; Calibration; Dynamic calibration; Dynamic pressure; High pressure; Liquid medium; Pogo pressure; Pressure source; Pressure transducer; Sinusoidal; *TN927. SP305-8.*
- Space simulation; Cryogenics; Liquid air; Liquid nitrogen; Liquid oxygen; Neutral buoyancy; *SP336, pp. 623-649. SP305-3.*
- Space simulation; Defect annealing; Impurities; Silicon; *SP336, pp. 313-321. SP305-3.*
- Space simulation; Temperature effect; Tests; Viscosity; Electron damage; Electron energy; Electron spin resonance; Evaluation; Gel; Mechanical properties; Optical properties; Plastic films; Poly(ethylene terephthalate); *SP336, pp. 323-344. SP305-3.*
- Space simulation; Testing; Volatile products; Absorption; Condensation; Contamination control; Evaluation; Far infrared; Fluid dynamic force; Microorganisms; Optical properties; Planetary quarantine; Polymers; Shock force; *SP336, pp. 51-77. SP305-3.*
- Space simulation; Thermal control; High vacuum; Solar cells; Space radiation; *SP336, pp. 935-947. SP305-3.*
- Space simulation; Thermal radiation; Vacuum; Weightlessness; Ablation; Particulate radiation; Re-entry; *SP336. SP305-3.*
- Space simulation chamber; Vacuum; Cryopumping; Ion pump; Pumping speed; *SP336, pp. 683-698. SP305-3.*
- Space station simulator; Submersible; Closed ecological system; Habitability; Maintainability prediction; Microbiology; Microflora shift; Physiology; Psychology; *SP336, pp. 599-621. SP305-3.*
- Space systems; System test bed; Simulation; *SP336, pp. 535-547. SP305-3.*
- Space vacuum system gas; Mass spectrometry; Residual gas analysis computer simulation; Residual gas analysis data reduction; *SP336, pp. 151-164. SP305-3.*
- Spacecraft; Blast over-pressure; Combustion front; Hypervelocity impact; Meteoroid penetration; Oxidative detonation; Oxidative flash; Oxygen atmosphere; *SP336, pp. 569-585. SP305-3.*
- Spacecraft; Contamination; Mass transfer; *SP336, pp. 79-103. SP305-3.*
- Spacecraft cabin atmospheres; Water; Controlled atmospheres; Extinguishing; Fire extinguishers; Fires; Halons; Oxygen; *13515. SP305-5.*
- Spacecraft contamination; Particulate sampling; Quartz crystal microbalance; *SP336, pp. 105-111. SP305-3.*
- Spacecraft, gamma-rays; Spallation; Activation; Apollo; Background; Computation, decay-schemes; Cross-sections; Scintillators; *SP425, pp. 480-483. SP305-7.*
- Spacecraft tankage; Stratification; Supercritical storage; Two-phase flow; Zero gravity; Boiling heat transfer; Bubble dynamics; Cavitation; Condensing heat transfer; Correlations; Cryogenic fluid safety; Fluid dynamics; Fluid transfer; Heat transfer; *13242. SP305-5.*
- Spacing; Antenna; Comparison; Co-planar; Gain; Interactions; Mutuals; Nested; Patterns; Planar; Proximity; Rhombic; *11467. SP305-2.*
- Spaciousness; Sunshine; View; Windowless; Windows; Daylight; Fenestration; Psychological; Solar glass; *B5570. SP305-7.*
- Spall; Adherence; Aluminum; Chromium; Electron microprobe; Electron microscope; Interface; Magnesium; Porcelain enamel; *10647. SP305-1.*
- Spall resistance; Adherence; Aluminum; Electron microscope; Interface; Porcelain enamel; *11317. SP305-2.*
- Spallation; Activation; Apollo; Background; Computation, decay-schemes; Cross-sections; Scintillators; Spacecraft, gamma-rays; *SP425, pp. 480-483. SP305-7.*
- Spallation; Aluminum; GeV electrons; Iron; Photoneuclear; Production cross sections; Radioactivity; *12697. SP305-4.*
- Spallation; Bismuth; Gamma rays; Integrated cross section; Isomer; Lead; Linac; Lithium drifted germanium; Photoneuclear; *12855. SP305-4.*
- Spallation products; 3-13 GeV electron beam; Photon energy; Production cross sections; *12856. SP305-4.*

- Spalling; X-ray diffraction; Adherence; Aluminum; Electron microprobe; Electron microscope; Porcelain enamel; *B559*, SP305-6.
- Span; Polymer chains; Ratio method; Self-avoiding walks; *14015*, SP305-6.
- Span charts, boys' sizing; Apparel, boys'; Body measurements, boys'; Pattern sizes, boys'; Size designations, boys'; *P536-70*, SP305-3.
- Span charts, girls' sizing; Apparel, girls'; Body measurements, girls'; Classifications, girls' size; Grading charts, girls' size; Size designations, girls'; *P554-72*, SP305-5.
- Span charts, women's sizing; Apparel, women's; Body measurements, women's; Classifications, women's size; Grading charts, women's size; Pattern size, women's; Size designations, women's; *P542-70*, SP305-3.
- Spanning trees; Trees; Combinatorial analysis; Enumeration; Graphs; Maximization; *J78B No. 4, 193-196 (1974)*, SP305-6.
- Spans; Unrestricted polymer chains; Monte Carlo analysis; Ordered spans; Self-avoiding polymer chains; Shape of polymer chains; *15622*, SP305-7.
- S-parameters; High frequency probe assembly; Integrated circuit transistors; Parasitic element; *TN663*, SP305-7.
- S-parameters; Spreading resistance; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Beam leads; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Generation centers; *TN806*, SP305-5.
- S-parameters; Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; Wire bonds; Contact resistance; Die attachment; Dopant profiles; Electrical properties; Electronics; Gold-doped silicon; Hermeticity; *SP400-1*, SP305-6.
- S-parameters; Switching transients; Thermal resistance; Thermally stimulated measurements; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; *TN773*, SP305-5.
- S-parameters; Switching transients; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; *TN788*, SP305-5.
- S-parameters; Transistors; Vector voltmeter; Delay time; Electronics; High-frequency probes; Sandia bridge; Scattering; *NBSIR 73-152*, SP305-6.
- Spark; Spectrochemical analysis; Spectroscopic source; Arc; Boltzmann equilibrium; Excitation; Ionization; Line intensity; Saha equilibrium; *9361*, SP305.
- Spark; Spectrometry; Accuracy; Circumvention; Emulsions; Homogeneity; Ions; Mass; Platinum; Precision; Replicate; *11847*, SP305-3.
- Spark; X-ray spectrometry; Electron microprobe; Emission spectrometry; Laser; Mass spectrometry; Microanalysis; *10397*, SP305-1.
- Spark cutting; Zone refining; Crystal growth; Fermi surface; Orientation; Potassium; *J71A2-443, 127-132 (1967)*, SP305.
- Spark detection; Thin films immersed in liquids; High power ruby laser damage; Multilayer reflectors; Single layer coatings; *SP462*, pp. 315-330 (Dec. 1976), SP305-8.
- Spark discharge; Spectrochemical analysis; Arc discharge; Excitation sources; Fuel-rich flames; High-frequency torch; Laser probe; Plasma jet; *10708*, SP305-1.
- Spark excitation; Alloys, high-temperature; Ambient air; Argon; Atmospheres of argon; High-temperature alloys; Nitrogen; Nitrogen and ambient air; *9235*, SP305.
- Spark excitation; Spectral intensity; Spectrochemical analysis; High energy; High power; Laser probe; Laser vaporization; Photographic emulsion; Pit volume; Q-switched ruby laser; Quantitative; *10005*, SP305-1.
- Spark excitation; Spectrochemical; Analysis; Emission; Emission spectra; High energy; High power; Illuminating system; Laser probe; Laser vaporization; Q-switched ruby laser; Qualitative; *10004*, SP305-1.
- Spark source; Trace elements; Fluctuations; Homogeneity; Insensitive emulsion; Mass spectrometry; Precision; Quantitative analysis; Solids; *12127*, SP305-3.
- Spark source mass spectrometry; Atomic absorption spectrometry; Isotope dilution analysis; Mercury in water, trace analysis; Mercury in water, stabilization of; Neutron activation analysis; *SP422*, pp. 267-273 (Aug. 1976), SP305-8.
- Spark source mass spectrometry; Spectrophotometry; Trace elements; Water pollution; X-ray fluorescence; Air pollution; Atomic absorption; Electron microprobe; Emission spectroscopy; Environmental analysis; Industrial effluents; Ion selective electrodes; *13783*, SP305-5.
- Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Sulfur analysis; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; Vacuum spectrometer; Computing; Digital readout; Electron probe; *TN422*, SP305-1.
- Spark source mass spectrometry; Spectrochemical analysis; Standard reference materials; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; X-ray mass attenuation coefficients; Zinc analysis; Computing; Digital readout; *TN452*, SP305-1.
- Spark source mass spectrometry; Spectrochemical analysis; Spectrograph; Standard reference materials; Steel analysis; Target current scanning; Trace analysis; X-ray absorption; X-ray fluorescence analysis; X-ray scans; Analytical curve functions; *TN502*, SP305-2.
- Spark source mass spectrometry; Stable isotope dilution; Trace determinations; Cation-exchange; Electrodeposition; High-purity metal analysis; Multi-element; *11242*, SP305-2.
- Spark source mass spectrometry; Steel; Trace elements; Isotope dilution; NBS Standard Reference Material; Preconcentration; *15889*, SP305-8.
- Spark source mass spectrometry; Sub-boiling; Trace element; Distillation; Isotope dilution; Pure reagents; *13088*, SP305-5.
- Spark source mass spectrometry; Trace element; Ingot iron; Isotope dilution; NBS standard reference material; Preconcentration; *11704*, SP305-2.
- Spark source mass spectrometry; Trace elements; Zinc; Electrodeposition; Isotope dilution; Preconcentration; *11517*, SP305-2.
- Spark thresholds; Thin films; Truncated Gaussian optical; Damage morphology; Damage thresholds; Laser-induced scatter; Ruby; *SP372*, pp. 123-134, SP305-4.
- Spark thresholds; Thin films; Weak-signal scatter; Damage thresholds; Dielectric reflector; Laser-induced scatter; Picosecond pulses; *SP414*, pp. 39-47, SP305-6.
- Spark-gap; GHz; Impulse; Picoseconds; Random sampling; Sampling head; Sampling oscilloscope; *12518*, SP305-4.
- Sparse matrix; Tree; Block Gaussian elimination; Graph; Inversion; Partitioning; *J. Res. 80B No. 2, 245-257 (1976)*, SP305-8.
- Spatial and temporal plasma resolution; Streak camera experiments; Surface plasmas; Entrance and exit surface damage; Sapphire; *SP372*, pp. 46-54, SP305-4.
- Spatial correlation; Turbulence; Wind observations; Wire profiles; Climatology; Meteorology; *B5530*, pp. 23-27, SP305-3.
- Spatial response; Temporal development; Laser power at energy measurements; *16561*, SP305-8.
- Spatial rotation; Angular velocity; Effective axis and angle; rotation; Intrinsic velocity; Kinematics of a rigid body; Rotation group; *J75B, Nos. 3 and 4, 179-186 (1971)*, SP305-3.
- Spatial sets; User needs; Age and perception; Complex; Home range; Life cycle; Life space; Loss continuum; Mac-



- space; Mastery; Micro space; Redundant cuing; Sensory acuity; Sensory deterioration; *SP361, Vol. 1*, pp. 57-62. **SP305-1.**
- tial spectral density function; Surface roughness; Light scattering; Sinusoidal grating diffraction; *SP414*, pp. 163-168. **SP305-6.**
- atially extended defects;  $\text{CaF}_2$ ; Dipole shell coefficient; Electric fields;  $\text{NaCl}$ ; Polarization; *J.72A No. 5*, 475-478 (1968). **SP305-1.**
- aker identification; Speech recognition; Standardized fonts; J.S.S.R.; Western Europe; Optical character; Pattern recognition; Recognition; Research; *11142*. **SP305-2.**
- cial Foreign Currency; Binational research cooperation; International scientific cooperation; India science and technology; Physical science research administration; Research planning; Scientific research abstracts; *TN798*. **SP305-5.**
- cial Foreign Currency Program; Yugoslavia science and technology; Binational research cooperation; International scientific cooperation; Physical science research administration; Research planning; Scientific research abstracts; *TN753*. **SP305-5.**
- cial foreign currency programs; Building research; Cooperative programs; Information exchange; International building research; International organization memberships; *NBSIR 76-1162*. **SP305-8.**
- cial functions; Analytical continuation; Electron scattering; Potential scattering; Recoupling coefficients; Regge poles; *2388*. **SP305-4.**
- cial functions; Cardinal series; Interpolation; Regge poles; *J.73B No. 3*, 241-245 (1969). **SP305-1.**
- cial functions; Chebyshev series; Difference equations; Error analysis; Miller algorithm; Recurrence methods; *71B2.63-206*, 111-129 (1967). **SP305.**
- cial functions; Chebyshev series; Difference equations; Error bounds; Miller algorithm; Recurrence relations; *71B4-238*, 161-166 (1967). **SP305.**
- cial functions; Chebyshev series; Difference equations; Error analysis; Miller algorithm; Recurrence methods; *10697*. **SP305-1.**
- cial functions; Complete elliptic integral; Cubic lattice; Definite integral; *J. Res. 80B No. 2*, 313-323 (1976). **SP305-1.**
- cial functions; Error functions; Indefinite integrals; *J.75B, Nos. 3 and 4*, 157-178 (1971). **SP305-3.**
- cial functions; Stationary phase; Watson's lemma; Asymptotic approximations; Error analysis; Generalized integrals; *4099*. **SP305-6.**
- cial functions; Statistical analysis; Astrophysics; Atomic physics; Error functions; Indefinite integrals; *J.73B No. 1*, 1-10 (1969). **SP305-1.**
- cial functions; Thermodynamics; Transport properties; Argon; Kinetic theory; Phase studies; Potential functions; *3767*. **SP305-1.**
- cial functions; Transport problems; Diffusion theory; Exponential integral; Indefinite integrals; Quantum mechanics; Radiative equilibrium; *J.73B No. 3*, 191-210 (1969). **SP305-1.**
- cial functions; Turning points; Whittaker functions; Asymptotic analysis; Darboux's method; Definite integrals; Hypergeometric functions; Incomplete gamma function; Legendre functions; Ordinary differential equations; Saddle points; *5818*. **SP305-8.**
- cial Libraries Association; Survey; Users; Properties data; National Standard Reference Data System; Scientific and technical librarians; *12626*. **SP305-4.**
- cial NBS facilities; Astin-Branscomb transition; Astin legacy; Compatibility and reproducibility of measurements; Contributions to basic science; Design and performance standards; Fundamental constants; International standards; Metric system study; *14344*. **SP305-6.**
- Speciation; Stability of water samples; Zinc; Adriatic Sea; Cadmium; Copper; Electrochemical analysis; Heavy metals; Lead; Seawater analysis; *SP422*, pp. 917-928 (Aug. 1976). **SP305-8.**
- Speciation; Volatile metal compounds; Detection; Flameless atomic spectrophotometry; Gas chromatography; Graphite furnace; Methylation of metals; Microbial transformation; *16409*. **SP305-8.**
- Species; Timber; Grades; Lumber; Sizes; Softwood; *PS20-70*. **SP305-2.**
- Species; Trace element concentrations; Neutron activation analysis; Particulates; Sampling; *15783*. **SP305-8.**
- Specific absorbed fraction; Dosimetry, radionuclide; Internal dose calculation; Nuclear medicine; Radionuclide dosimetry; Reciprocity relationship; *14618*. **SP305-6.**
- Specific activities; Calculated sensitivities; Cross section parameters; Photon activation analysis; Photon flux distribution; Relative production rate; *11053*. **SP305-2.**
- Specific density; Gravity; *9167*. **SP305.**
- Specific energy; Wheel structure; Abrasive machining; Brittle chip formation; Brittle fracture; Chip accommodation; Glass; Glass-ceramics; Machining and grinding technical ceramics; Material removal rate; *SP348*, pp. 53-57. **SP305-4.**
- Specific gravity; Density; Dilatometry; Gases, density measurements; Liquids, density measurements; Solids, density measurements; *10098*. **SP305-1.**
- Specific gravity; Standard hydrometer; Calibration; Density; Hydrometer; Hydrometer calibration; Reference hydrometer; *J.73C No. 3 and 4*, 57-65 (1969). **SP305-1.**
- Specific heat; Butadiene-acrylonitrile copolymer; Butadiene-styrene copolymers; Crystallization of rubber; Elastomers; Polybutadiene; Polyethylene; Polyisobutylene; Rubber; *9520*. **SP305.**
- Specific heat; Cell model; Correlation functions of fluids in the critical region; Critical phenomena; Distribution function; Fluctuations in density; *11698*. **SP305-2.**
- Specific heat; Cerous magnesium nitrate; Cesium titanium alum; Dipole-dipole interaction; Neodymium ethyl sulphate; Shape dependent; *11909*. **SP305-3.**
- Specific heat; Cesium; Effective mass; Electronic density of states; Rubidium; *SP323*, p. 783. **SP305-4.**
- Specific heat; Chemical potential; Critical exponents; Critical parameters; Critical region; Equation-of-state; Fluids; Scaling law; *11174*. **SP305-2.**
- Specific heat; Coexistence; Experimental; Heat capacity; Liquid phase; Oxygen; Saturated liquid; *J.73A No. 1*, 1-13 (1969). **SP305-1.**
- Specific heat; Critical point; Density; Enthalpy; Equation of state; Hydrogen; Index of refraction PVT; Saturation properties; Scaling laws; *NBSIR 75-814*. **SP305-7.**
- Specific heat; Debye characteristic temperature; Einstein function; Debye function; Electronic specific heat; Heat capacity; *13107*. **SP305-5.**
- Specific heat; Methane; Constant volume; Heat capacity; Liquid; Saturated liquid; *J.78A No. 3*, 401-410 (1974). **SP305-6.**
- Specific heat; Spectral emittance; Transition alloys; Vapor pressure; Electrical resistivity; Iron; Molybdenum pentafluoride; Partly associated vapors; Solid-state transformations; Solution calorimetry; *NBSIR 73-281*. **SP305-6.**
- Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Hydrogen; *TN617*. **SP305-4.**
- Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; *TN384*. **SP305-3.**

- Specific heat; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; *TN648*. **SP305-6.**
- Specific heat; Speed of sound; Vapor pressure; Virial coefficient; Critically evaluated data; Critical point; Enthalpy; Entropy; Equation of state; Helium; Internal energy; Joule-Thomson coefficient; *J. Phys. Chem. Ref. Data* 2, No. 4, 923-1042 (1973). **SP305-6.**
- Specific heat; Speed of sound; X-ray scattering; Critical region; Dielectric constant; Equation of state; Homogeneity; Light scattering; Power laws; Refractive index; Scaling; Schlieren method; *14932*. **SP305-7.**
- Specific heat; Spin-diffusion; Susceptibility; Ultrasonic attenuation; Frequency shift; Heisenberg paramagnet; *12265*. **SP305-3.**
- Specific heat; Stainless steel; Thermal expansion; Titanium alloys; Aluminum alloys; Copper-nickel alloys; Cryogenics; *12784*. **SP305-4.**
- Specific heat; Standard reference material; Synthetic sapphire; Thermodynamic functions; Alumina; Aluminum oxide; Corundum; Drop calorimetry; Enthalpy; Heat capacity standard; *J75A No. 5*, 401-420 (1971). **SP305-3.**
- Specific heat; Static scaling; Critical exponents; Critical phenomena; Data analysis; Magnetic solids; Nonlinear least-squares; Phase transitions; *J. Phys. Chem. Ref. Data* 2, No. 1, 11-24 (1973). **SP305-6.**
- Specific heat; Statistical mechanical ensembles; Thermodynamic properties; Three body forces; Methane; Molecular dynamics; Potential function; *15310*. **SP305-7.**
- Specific heat; Steam; Water; Coexistence curve; Compressibility; Critical anomalies; Critical exponents; Critical region; Equation of state; Scaling law; *13059*. **SP305-5.**
- Specific heat; Strain energy; Supercooled liquid; Thermal relaxation; Glassy state; Glass transition; Heat capacity; Polymer; *16309*. **SP305-8.**
- Specific heat; Superconductivity; Transport properties; Tunneling; Band structure; Disordered systems; Electronic density of states; Ion neutralization; Knight shift; Magnetic susceptibility; Many-body effects; Optical properties; Photoemission; *SP323*. **SP305-4.**
- Specific heat; Superparamagnetic particles; Alloy; Clustering; Copper Ni iron; Ferromagnetism; Interactions; Magnetic; *12591*. **SP305-4.**
- Specific heat; Susceptibility; Chromium methylammonium alum; Crystal field; High-temperature expansion; *12968*. **SP305-4.**
- Specific heat; Susceptibility; Dipole-dipole interactions; Low temperature salts; *13574*. **SP305-5.**
- Specific heat; Susceptibility; Thermometer scale; Cerous magnesium nitrate; Dipole system; Low temperature; Paramagnetic salt; *1822*. **SP305-3.**
- Specific heat; Ta-W alloy; Electrical resistivity; Emission; High-speed measurement; High temperature; *13373*. **SP305-5.**
- Specific heat; Temperature intervals; Temperature scale; Heat capacity; *13626*. **SP305-5.**
- Specific heat; Thermal conductivity; Cryogenics; Dielectric constant; Loss tangent; Machinable glass-ceramic; *15046*. **SP305-7.**
- Specific heat; Thermal expansion; Thermodynamics and expansions; Bulk modulus; Dislocations and thermodynamics; Entropy; *SP317*, pp. 1223-1225. **SP305-3.**
- Specific heat; Thermodynamic anomalies; Vapor pressure; Chemical potential; Critical region; Lattice gas; Scaling law; *10603*. **SP305-1.**
- Specific heat; Thermodynamic function; Density; Heat of vaporization; Hydrogen; Parahydrogen; *9246*. **SP305.**
- Specific heat; Thermodynamic properties; Cryogenics; Dilute refrigerator; Enthalpy; Entropy; Fermi-Dirac gas; Helium; Helium-4; Liquid; Mixtures; Osmotic pressure; Quantum fluid; *TN362*. **SP305.**
- Specific heat; Thermodynamic properties; Beryllium alumina; Chrysoberyl; drop calorimetry; Enthalpy measurements; High-temperature calorimetry; Mixed oxides; *J71A2-438*, 895 (1967). **SP305.**
- Specific heat; Thermodynamic properties; Beryllium alumina; (1:3); Drop calorimetry; Enthalpy measurements; High-temperature calorimetry; Mixed oxides; *J71A2-439*, 97-111 (1967). **SP305.**
- Specific heat; Thermodynamic properties; Aluminum trifluoride; Drop-calorimetry, enthalpy measurements; High temperature calorimetry; Phase transition; Pretransition phenomena; *J71A3-450*, 185-193 (1967). **SP305.**
- Specific heat; Thermodynamic properties; Vapor pressure; Xenon; CO<sub>2</sub>; Chemical potential; Critical point parameter; Critical region; Fluids; He<sup>4</sup>; Scaling laws; *J73A No. 6*, 565-583 (1969). **SP305-1.**
- Specific heat; Thermodynamic properties; Enthalpy of formation; Entropy; Gibbs energy of formation; Heat of formation; *TN270-3*. **SP305-1.**
- Specific heat; Thermodynamic properties;  $\alpha$ -beryllium nitride; Calorimetry; Entropy; Heat capacity; *J74A No. 5*, 617-619 (1970). **SP305-2.**
- Specific heat; Thermodynamic properties; Beryllium alumina; Chrysoberyl; Drop calorimetry; Enthalpy measurements; High temperature calorimetry; *J. Res.* 80A No. 1, 65-73 (1976). **SP305-8.**
- Specific heat; Thermodynamics; Electrical resistivity; Emission; High-speed measurements; High temperature; Niobium-zirconium alloy; *J77A No. 1*, 45-48 (1973). **SP305-5.**
- Specific heat; Thermodynamics; Electrical resistivity; Emission; High-speed measurements; High temperature; Refractory alloy; *14504*. **SP305-6.**
- Specific heat; Thermodynamics; Electrical resistivity; Emission; Hafnium; High-speed measurements; High temperatures; *J79A No. 2*, 431-436 (1975). **SP305-7.**
- Specific heat; Thermodynamics; Graphite; Heat capacity; High speed measurements; *13615*. **SP305-5.**
- Specific heat; Thermodynamics; Thermophysical properties; High-speed measurements; High temperature; *11727*. **SP305-2.**
- Specific heat; Thermophysical properties; Transport properties; Tritium; Vapor pressure; Compilation; Density; Deuterium; Electrical properties; Enthalpy; Entropy; Fixed points; Hydrogen; Mechanical properties; Optical properties; *TN64*. **SP305-5.**
- Specific heat; Tight-binding approximation; Electronic density of states; Electronic specific heat; Palladium (Pd); Rh; Ru; Pd alloys; Ru-Rh alloys; *SP323*, pp. 579-585. **SP305-4.**
- Specific heat; Total emission; Vanadium; Zirconium; Bibliography on spectroscopy of fluorides and oxides of the lanthanide series; Calculation of dissociation energies; Electrical resistivity; Enthalpy of transition; Graphite; Infrared matrix isolation spectroscopy; *NBSIR 74-600*. **SP305-7.**
- Specific heat; Vapor; Constant volume; Ethane; Heat capacity; Liquid; Saturated liquid; *J. Res.* 80A Nos. 5 and 6, 739-751 (1976). **SP305-8.**
- Specific heat; Vapor pressure; Velocity of sound; Density; Enthalpy; Entropy; Equation of state; Fixed points (PVT); Joule-Thomson; Latent heat; Melting curve; Oxygen; Properties of fluids; *J74A No. 1*, 93-129 (1970). **SP305-2.**
- Specific heat; Vapor pressure; Virial coefficient; Argon; Compressibility factor; Enthalpy; Entropy; Equation of state; Internal energy; Joule-Thomson coefficient; *P-V-T; NSRD NBS27*. **SP305-1.**

Specific heat; Velocity of sound; Density; Enthalpy; Entropy; Parahydrogen; Properties of fluids; 15022. **SP305-7.**

Specific heat; Xenon; Compressibility; Critical point; Equation of state; Fluid; Helium; Low temperature; Methane; Scaling law; *J.76A No. 3, 207-211 (1972).* **SP305-4.**

Specific heat; 0.48 to 10 K; Clustering;  $\text{Co}_{0.8}\text{Ni}_{0.4}$  alloy; Electronic specific heat; 11843. **SP305-3.**

Specific heat ratio; Compressed liquid; Compressibility; Saturated liquid; Sound velocity oxygen; 13470. **SP305-5.**

Specific heat ratio; Compressibility; Methane; Sound velocity; 4331. **SP305-6.**

Specific heat ratio; Compressibility; Interferometry; Light scattering; Methane; Sound velocity; 15639. **SP305-7.**

Specific heat vanadium carbide; Electronic density of states; *Phys. Rev. B, 23, 597.* **SP305-4.**

Specific heats; Cesium titanium alum; Critical temperature; Face centered cubic lattice; Magnetic dipole-dipole coupling; *Phys. Rev. B, 20, 2077.* **SP305-3.**

Specific heats; Compressed gas; Compressed liquid; Fluorine; Heat capacities; *J.74A No. 5, 661-665 (1970).* **SP305-2.**

Specific heats; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; *TN631.* **SP305-5.**

Specific heats; Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; *TN622.* **SP305-4.**

Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; PVT data; *TN653.* **SP305-6.**

Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; PVT data; *NBSIR 73-342.* **SP305-6.**

Specific heats; Speeds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; *NBSIR 74-398.* **SP305-7.**

Specific heats; Speeds of sound; Vapor pressure; Densities; Enthalpies; Entropies; Equation of state; Ethane; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; *TN684.* **SP305-8.**

Specific heats; Spin-wave theory; Thulium; Anti-ferromagnet; Anti-phase domain; Augmented plane wave method (APW); Curie temperature; Electronic density of states; Enhancement factors; Erbium; Erbium-thulium alloys; *SP323, pp. 571-577.* **SP305-4.**

Specific heats; Temperature dependence; Density dependence; Molecular dynamics; Simple fluids; 12525. **SP305-4.**

Specific heats; Thermodynamic properties; Compressed liquid; Heat capacities; Liquid; Oxygen; *J.73A No. 1, 15-24 (1969).* **SP305-1.**

Specific heats; Thermodynamic properties; Critical point; Equation of state; Hydrogen; Parahydrogen; *J.73A No. 6, 585-591 (1969).* **SP305-1.**

Specific heats; Thermodynamic properties; Two-phase; Fluorine; Liquid-vapor coexistence; Saturated liquid; Saturation; *J.74A No. 4, 499-505 (1970).* **SP305-2.**

Specific heats; Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; Saturation densities; *TN392. (Revised September 1973).* **SP305-5.**

Specific heats; Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; Saturation densities; *TN392.* **SP305-2.**

Specific heats; Vapor pressures; Coexistence boundary; Critical point; Ethane; Equation of state; Fluids; Methane; Orthobaric densities; *J.79A No. 1, 71-79 (1975).* **SP305-7.**

Specific heats of the saturated liquid; Thermofunctions for ideal gas states; Thermophysical properties; Heats of vaporization; Methane; Orthobaric densities; *J.75A No. 1, 15-21 (1971).* **SP305-3.**

Specific ion electrode; Electrochemical analysis; Fluoride analysis for; Fluoride electrode; Microchemical analysis; Potentiometry; 10222. **SP305-1.**

Specific ion electrodes; Coulometric analysis; Gas analysis; Methods of chemical analysis; Microchemical analysis; Microscopic analysis; Polarographic analysis; *TN455.* **SP305-1.**

Specific optical density; Toxic gases; Toxicity; Combustion; Polymer; Pyrolysis; Smoke; *SP411, pp. 105-124.* **SP305-6.**

Specific refraction; Deuterium; Polarizability; Refractive index; 11729. **SP305-2.**

Specific resistance; Abnormal loading; Alternate path; Annotated bibliography; Bibliography; Building code; Building regulations; Collapse; Failures; Progressive collapse; *BSS67.* **SP305-8.**

Specific strength; Specific Young's modulus; Units of measurement; 12780. **SP305-4.**

Specific surface; Materials; Performance evaluation; Pore size distribution; Porosity; *SP361, Vol. 1, pp. 669-675.* **SP305-4.**

Specific volume; Superposition; Thermal expansion; Volume relaxation; WLF; Dilatometer; Isothermal volume change; Polyethylene; 13774. **SP305-5.**

Specific volume; Temperature; Thermal expansion; Compressibility; Density; Dilatometer; Pressure; 12977. **SP305-4.**

Specific Young's modulus; Units of measurement; Specific strength; 12780. **SP305-4.**

Specific activity threshold; Detection limits; High sensitivity counting; Low-level; Low-level separations; Microactivity; Radiochemistry; Radionuclide identification; 12887. **SP305-4.**

Specification; Surgical bone cement; Biomaterial; Bone cement; Orthopaedic material; Poly(methyl methacrylate); 15191. **SP305-7.**

Specification; Tolerances; Weights and measures inspection; Accurate measurements of volume of liquids; Field standard measuring flasks; *H105-2.* **SP305-3.**

Specification; Unitary heat pump; Heating and cooling; Military family housing; *NBSIR 76-1029.* **SP305-8.**

Specification; Use; Valid; Biological; Chemical; Physical; Reliable; 13259. **SP305-5.**

Specification writer; Cascade heater; Insulated underground piping; Insulation; Limitation of liability, "or equal" specifications; Performance specifications; Schematic diagrams; Specifications; *BSS66, pp. 78-87.* **SP305-7.**

Specifications; Adhesives; Composite restorative materials; Dental materials research; Dental restorative materials; Future dental needs; Laboratory testing and clinical research; Mechanical properties; Metals research; *SP354.* **SP305-4.**

Specifications; Coating thickness; Coatings; Electrodeposited coatings; Electrodeposits; Metal coatings; Plated coatings; Plating specifications; Plating standards; 14041. **SP305-6.**

Specifications; ETIP; Incentives; Innovation; Procurement; Product improvement; *NBSIR 75-696.* **SP305-7.**

Specifications; Guidelines; Industrial robots; Manipulator; Performance evaluation; Programmable robots; *SP459.* **SP305-8.**

Specifications; Specification writer; Cascade heater; Insulated underground piping; Insulation; Limitation of liability, "or

- equal" specifications; Performance specifications; Schematic diagrams; *BSS66*, pp. 78-87. **SP305-7.**
- Specifications; Stability; Wet breaking load; Accelerated aging; Dry breaking load; Paper; PH; Records; Reflectance; *14605*. **SP305-6.**
- Specifications; Standardization; Standards; Information sources; KWIC Index; Plant engineering; Product standards; *12804*. **SP305-4.**
- Specifications; Standardization activities, U. S.; Standards; Test methods; Certification and labeling plans; Government standardization, U. S.; *M288*. **SP305.**
- Specifications; Standardization activities; Standards; States—standardization activities; Test methods; Codes; Consensus system; Directory; Federal Government—standardization; Industry standards activities; National standards activities; Recommended practices; *SP417*. **SP305-7.**
- Specifications; Standards; Building components; Codes; Laboratory procedures; Performance characteristics; Performance criteria; *9530*. **SP305-1.**
- Specifications; Standards; Engine pumper; Fire vehicle; Ladder truck; Maintenance; Replacement; *TN891*. **SP305-8.**
- Specifications; Standards; Standards organization; Test methods; Plastics standardization; *16106*. **SP305-8.**
- Specifications; Standards; System engineering; Building codes; Computer model; Decision theory; Networks; *NBS-GCR-76-55*. **SP305-8.**
- Specifications; Standards; Systems engineering; Building codes; Computer program; Decision theory; Networks; *NBS-GCR-76-56*. **SP305-8.**
- Specifications; Standards; Systems engineering; Building codes; Computer program; Decision theory; FORTRAN; Logic design; Networks; *NBS-GCR-76-57*. **SP305-8.**
- Specifications; Standards; Technology; Transfer; Innovation; Procurement; *15595*. **SP305-7.**
- Specifications; Standards; Test methods; Analyses; International Commission on Rules for the Approval of Electrical Equipment; International Electrotechnical Commission; International Organization for Standardization; *SP390*. **SP305-6.**
- Specifications; Standards; Tests; User needs; Carpets; Floor coverings; Government; Performance; Procurement; *TN822*. **SP305-6.**
- Specifications; Standards, dental; Dental materials and devices, specifications for and certification of; Dental specifications; *SP354*, pp. 221-224. **SP305-4.**
- Specifications; State governments; Systems analysis; Design criteria; Fire hazards; Fire losses; Fire reporting; Fire safety; Information systems; National Fire Data System; *NBS-GCR-73-5*. **SP305-8.**
- Specifications; Static; Structural engineering; Subsystems; Vibration; Analysis; Deflection; Design; Dynamic; Experimental; Human sensitivity; Loading functions; *B5347*. **SP305-5.**
- Specifications; Structure; Theory; Wind; Bridge; Design; Field data; Gust response; Model; *SP444*, pp. 1-1—1-20 (Apr. 1976). **SP305-8.**
- Specifications; Technical requirements; Tolerances; Commercial weighing and measuring devices; *H44*. **SP305-3.**
- Specifications; Test measures; Tolerances; Weights and measures inspection; Accurate measurements of volumes; Field standard; Metal volumetric field standards; Provers; *H105-3*. **SP305-3.**
- Specifications; Test methods; Certification programs; Consumer products; Household products; Industry standards; International recommendations; National standards; Product standards; Recommended practices; *TN762*. **SP305-5.**
- Specifications; Test procedures; Breath alcohol; Instruments; Performance standard; *14778*. **SP305-7.**
- Specifications; Test weights; Tolerances; Weights and measures inspection; Weights used by servicemen; Field standard weights; *H105-1*. (Revised 1972). **SP305-4.**
- Specifications; Tolerances; Weights and measures inspection; Cooperation for uniformity of measurements; Field standard weights; *H105-1*. **SP305-1.**
- Specifications; Unsolicited proposals; Certification program; ETIP; Incentives; Innovation; Life cycle costing; Procurement; Product testing; *NBSIR 75-716*. **SP305-7.**
- Specifications; Unsolicited proposals; VA; Certification programs; ETIP; Incentives; Innovation; Life cycle costing; Medical products and standards; Procurement policy; Product testing; *NBSIR 76-997*. **SP305-8.**
- Specifications; Validation; Buyer; Computer software; Mark place; Performance measurement; Quality; Seller; *154*. **SP305-7.**
- Specifications; Value; Experimental Technology Incentives Program (ETIP); Federal Supply Service; Life cycle costing; Procurement policy; *NBS-GCR-ETIP 76-18*. **SP305-8.**
- Specifications; Value incentives; Computer air condition units; Experimental Technology Incentives Program (ETIP); Federal Supply Service; Life cycle costing; Procurement policy; *NBS-GCR-ETIP 76-23*. **SP305-8.**
- Specifications; Wear; Adhesion; Floor coverings; Orange coatings; Performance characteristics; *11204*. **SP305-2.**
- Specifications; Wilmer Souder; Certification program; Guide; List of certified dental materials; *12916*. **SP305-4.**
- Specifications, dental; Accreditation of dental materials, Australian experience; Australian dental specifications; Dental materials; Dental standards; *SP354*, pp. 209-211. **SP305-4.**
- Specifications, dental; Amalgam, dental; American Dental Association; Dental materials; Dental Research Section, National Interferometer, dental; *SP354*, pp. 3-6. **SP305-4.**
- Specifications, dental; Amalgam, dental; American Dental Association; Casting, dental; Dental research; Dental Research Section, NBS; Guest workers; Paffenbarger, George Schoonover, Irl C.; Souder, Wilmer; *SP354*, pp. 7-11. **SP305-4.**
- Specifications for underground systems; Corrosion of underground pipes; District heating; Hot and chilled water systems; Insulation of underground pipes; *BSS66*. **SP305-7.**
- Specifications standards; American Dental Association; Cast Ceramic materials; Certified products; Dental; Instrument Materials; Metals; Polymers; *9978*. **SP305-1.**
- Specifications, State; Standards, State; State specifications and standards; Index of State specifications and standards; Keyword-In-Context index of State specifications and standards; Purchase specifications and standards, State; *SP375*. **SP305-5.**
- Specific-ion electrodes; Review of ion-selective electrode Symposium proceedings; Ion-selective electrodes; *SP3*. **SP305-1.**
- Specificity; Experimental conditions; Imprecision; Information system design; Levels of abstraction; Mnemotechnics; Semantics; *11153*. **SP305-2.**
- Specificity; SRM; Standard reference material; System error; Certification; Meaningful measurement; Measurement system; Precision; Reference method; *Mon 148*. **SP305-7.**
- Specificity; Standard reference materials; Accuracy; Analytical chemistry; Measurement; Precision; Reference methods; *14209*. **SP305-6.**
- Specimen collection; Specimen handling; Accuracy, precision and specificity of analytical methods; Biological and genetic variability; Clinical laboratory data; *SP422*, pp. 109-110 (Aug. 1976). **SP305-8.**
- Specimen criteria; Al-W alloy; Resolution test specimen; *SE 13846*. **SP305-6.**
- Specimen criteria; Resolution; Resolution specimens; Secondary emission; SEM; *12718*. **SP305-4.**



- specimen current; Electron backscatter; Electron probe microanalysis; Microanalysis; 10650. **SP305-1.**
- specimen current images; Channelling patterns; Iron; Lunar samples; Magnetic contrast; Scanning electron microscope; Signal differentiation; 14613. **SP305-6.**
- specimen decomposition; Specimen evaporation; Plasma spectrometry; Preliminary analysis; *SP422*, pp. 621-625 (Aug. 1976). **SP305-8.**
- specimen evaporation; Plasma spectrometry; Preliminary analysis; Specimen decomposition; *SP422*, pp. 621-625 (Aug. 1976). **SP305-8.**
- specimen handling; Accuracy, precision and specificity of analytical methods; Biological and genetic variability; Clinical laboratory data; Specimen collection; *SP422*, pp. 109-122 (Aug. 1976). **SP305-8.**
- specimen photography; Appearance; Camera description; Lighting description; 10183. **SP305-1.**
- specimen preparation; Analytical accuracy; Electron probe microanalysis; Elemental mapping; Energy dispersive analysis; Scanning electron microscopy; 14048. **SP305-6.**
- specimen preparation; Cross-sections; Elastic scattering; Electron detectors; Electron energy analyzers; Electron guns; Electron scattering; Electron-solid interactions; Experimental techniques; Inelastic scattering; Multiple scattering; Secondary processes; 11089. **SP305-2.**
- specimen preparation; Crystal spectrometers; Elemental distribution; Elemental identification; Energy dispersive spectrometers; Microanalysis; 15247. **SP305-7.**
- specimen preparation; Electron microscopy; *in situ* experiments; Ionic bombardment; Microscope stages; Rock-forming minerals; 15895. **SP305-8.**
- specimen preparation; Spectrometry; X-ray fluorescence; Analysis; Line interference correction; Silver dental alloys; 10419. **SP305-1.**
- specimen preparation; X rays; Electron probe microanalyzer; Microanalysis; Qualitative analysis; Quantitative analysis; 4897. **SP305-7.**
- specimen preparation; X-ray analysis; Electron probes; Metallography; Microanalysis; Petrography; 10617. **SP305-1.**
- specimens; Substrates; Ultrasonic machining; Ceramics; Finishing; Grinding; *SP348*, pp. 113-117. **SP305-4.**
- specscopy; Hyperfine spectrum; Laser stabilization; Methane; 3519. **SP305-5.**
- spectra; Absorption; Dielectric loss; Gases; Impact; Line shape; Microwave; Permeability; Permittivity; Pressure broadening; Relaxation; 9577. **SP305-1.**
- spectra; Absorption; Flash photolysis; Free radicals; Laser; 13528. **SP305-5.**
- spectra; Absorption; Gas; Infrared; Methyl iodide; Molecular geometry; Molecular structure; 11973. **SP305-3.**
- spectra; Absorption; Laser; 12253. **SP305-3.**
- spectra; Absorption; Lasers; 12649. **SP305-4.**
- spectra; Absorption spectra; Infrared; Molecular energy levels; Ozone; Pollution; 15311. **SP305-7.**
- spectra; Alkali-metal; Continuum; Molecules; Rare-gas; 13833. **SP305-6.**
- spectra; Alloys; Critical review; Emission spectra; Intermetallic compounds; Metals; Soft x-ray; *J. Phys. Chem. Ref. Data* 2, No. 2, 411-426 (1973). **SP305-6.**
- spectra; Alloys; Critical review; Emission spectra; Intermetallic compounds; Metals; Soft x ray; *SP369*. **SP305-6.**
- spectra; Atomic physics; Atomic structure; Oscillator strengths; Radiative transition probabilities; 14768. **SP305-7.**
- spectra; Atomic spectra; Electron configurations; Energy levels; Lanthanide elements; 12464. **SP305-4.**
- spectra; Atoms; Hydrogen; Resonance; 13327. **SP305-5.**
- spectra; Bond distances; Carbonyl sulfide; Microwave spectra; Molecular parameters; Rotational transitions; 13653. **SP305-5.**
- Spectra; Bond distances; Cyanogen; Infrared; Molecular structure; 9183. **SP305.**
- Spectra; Bond distances; High temperature; Microwave; RbOH; Rotational constants; Quadrupole; 11217. **SP305-2.**
- Spectra; Bond distances; Hydrogen cyanide; Infrared; Microwave; Molecular structure; Rotational constants; 12342. **SP305-3.**
- Spectra; Bromine; Chlorine; Electronic configuration; Halogen; Iodine; 14457. **SP305-6.**
- Spectra; Carbon disulfide; CS<sub>2</sub>; Excitation mechanism; Infrared; Lasers; 10681. **SP305-1.**
- Spectra; Carbonyl sulfide; Hydrogen cyanide; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; *J. Phys. Chem. Ref. Data* 3, No. 1, 221-244 (1974). **SP305-6.**
- Spectra; Cerium; 12674. **SP305-4.**
- Spectra; Cesium; Energy levels; 15798. **SP305-8.**
- Spectra; Chemical kinetics; Data compilation; Ethanol; G; Radiation chemistry; Rates; Review; *NSRDS-NBS48*. **SP305-6.**
- Spectra; CN; Emission; Far infrared; HCN; Laser; 10226. **SP305-1.**
- Spectra; Computer; Gamma-ray; Germanium-detector; On-line; Pulse-height-distribution; 10725. **SP305-1.**
- Spectra; Cross sections; Flux; Neutrons; Reaction rates; *SP425*, pp. 189-192. **SP305-7.**
- Spectra; DCN; Emission; Far infrared; HCN; Lasers; 10491. **SP305-1.**
- Spectra; Deuterium cyanide; Hydrogen cyanide; Infrared spectra; Microwave spectra; Molecular constants; Molecular structure; 10393. **SP305-1.**
- Spectra; Dipole moment; Excited states; MC-SCF; Molecular geometry; NO<sub>2</sub>; 15336. **SP305-7.**
- Spectra; Electron; Energy loss; Methane; *n*-hexane; Oscillator strengths; 15443. **SP305-7.**
- Spectra; Electron; Energy loss; Oscillator strengths; 15445. **SP305-7.**
- Spectra; Electron; Energy loss; Molecular oxygen; Oscillator strengths; 15446. **SP305-7.**
- Spectra; Ellipsometry; Iron; Optical constants; Passive films; 11373. **SP305-2.**
- Spectra; Ethyldifluoroborane; Ethynyldichloroborane; Gas phase; Infrared; Raman; 14181. **SP305-6.**
- Spectra; Interstellar molecules; Microwave spectra; Radio astronomy; Rotational transitions; Silicon sulfide; *JPCRD* 5, No. 4, 1147-1156 (1976). **SP305-8.**
- Spectra; Lutetium; Wavelengths; 12461. **SP305-4.**
- Spectra; Rare earths; Atomic spectra; Ionization energies; Lanthanides; 15576. **SP305-7.**
- Spectra; Rotational constants; Vibrational constants; Absorption; Energy levels; Gas laser; HCH, hydrogen cyanide; Infrared; 12044. **SP305-3.**
- Spectra; Spectrophotometry; Infrared; Linear polyethylene; Methyl; Methylene; Number average molecular weight; *J.76A* No. 2, 141-142 (1972). **SP305-4.**
- Spectra; Spectroscopy; Carbonyl sulfide; Energy levels;  $\theta$ -doublet transitions; Microwave spectra; Molecular structure; OCS; 9919. **SP305-1.**
- Spectra; Spectroscopy; High temperature; Hydrogen cyanide; Infrared; Molecular term values; 15436. **SP305-7.**
- Spectra; Spectroscopy; Stark effect; Carbonyl sulfide; Dipole moments; Infrared; Lasers; 16181. **SP305-8.**
- Spectra; Standard; Theory; Comparison; Fast; Integral-measurements; Neutron; Nuclear-data; 13343. **SP305-5.**
- Spectra; Stellar; Ultraviolet; Absorption; B-stars; C iv; O-stars; Si iv; 16271. **SP305-8.**
- Spectra; Strontium; Ultraviolet; Wavelengths; Yttrium; Zirconium; Molybdenum; Niobium; Rubidium; 12675. **SP305-4.**

- Spectra; Structural engineering; Tall buildings; Turbulence; Wind (meteorology); Acceleration; Aerodynamics; Building (codes); Deflection; Dynamic structural analysis; Pressure; 14534. **SP305-6.**
- Spectra; Structure; Arsine; Infrared high resolution; Perturbation-allowed transitions; Resonances; Secular determinants; 14953. **SP305-7.**
- Spectra; Structure; Superoxide; Alkaline; Complex; Copper, e.s.r.; Ligand; Paramagnetic; Reagent; *J.74A No. 5, 723-731 (1970).* **SP305-2.**
- Spectra; Study; Infrared; Inositol; Osotriazole; Parabromophenyl; Preparation; 12450. **SP305-4.**
- Spectra; Sulfur monoxide; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; *J. Phys. Chem. Ref. Data* 3, No. 1, 259-268 (1974). **SP305-6.**
- Spectra; Sulfur trioxide; Air pollution; Infrared spectra; Molecular structure; Raman spectra; 13270. **SP305-5.**
- Spectra; Sulfur trioxide; Air pollution; Bond distances; Infrared spectroscopy; Molecular structure; 13320. **SP305-5.**
- Spectra; Symmetry; Collisions; Gases; Molecules; Pressure broadening; Radiation; Relaxation; 9578. **SP305-1.**
- Spectra; Tantalum; 14894. **SP305-7.**
- Spectra; Temperature effects; Absorption; Extinction coefficients;  $\text{N}_2\text{O}_4$ ;  $\text{NO}_2$ ; *J. Res.* **80A** No. 2, 143-166 (1976). **SP305-8.**
- Spectra; Theory; Carbon; Cavity; Fast neutron; 13365. **SP305-5.**
- Spectra; Theory; Lutetium; 12770. **SP305-4.**
- Spectra; Theory; Vacuum-ultraviolet; Atomic; Collisions; Continuous; Deexcitation; He;  $\text{He}_2$ ; Metastable; Radiative; 9367. **SP305.**
- Spectra; Thioborine; Absorption spectra; Force constants; HBS; Infrared; Molecular spectra; 15000. **SP305-7.**
- Spectra; Tin; Transmittance; Ultraviolet; X-rays; Absorption; Films; 9639. **SP305-1.**
- Spectra; Transition probabilities; Ar I; Intermediate coupling; Lifetime measurements; Local thermal equilibrium; 10723. **SP305-1.**
- Spectra; Tungsten; Wavelengths; Hafnium; Levels; 15257. **SP305-7.**
- Spectra; Ultraviolet; Wavelengths; Niobium; 13083. **SP305-5.**
- Spectra; Ultraviolet; Wavelengths; Zirconium; 13084. **SP305-5.**
- Spectra; Ultraviolet; Wavelengths; Molybdenum; 13085. **SP305-5.**
- Spectra; Ultraviolet; Wavelengths; Zeeman effect; Rubidium; 13196. **SP305-5.**
- Spectra; Ultraviolet; Wavelengths; Magnesium; Source; 13370. **SP305-5.**
- Spectra; Ultraviolet; Wavelengths; Zeeman effect; Rubidium; 13662. **SP305-5.**
- Spectra; Ultraviolet; Wavelengths; Neon; 12606. **SP305-4.**
- Spectra; Ultraviolet; Wavelengths; Yttrium; 12826. **SP305-4.**
- Spectra; Ultraviolet; Wavelengths; Magnesium; Source; 12962. **SP305-4.**
- Spectra; Ultraviolet; Wavelengths; Aluminum; Energy levels; 14011. **SP305-6.**
- Spectra; Ultraviolet; Wavelengths; Rubidium; 14893. **SP305-7.**
- Spectra; Ultraviolet; Wavelengths; Iron; 15007. **SP305-7.**
- Spectra; Ultraviolet; Wavelengths; Rubidium; 15255. **SP305-7.**
- Spectra; Ultraviolet; Wavelengths; Yttrium; 15725. **SP305-8.**
- Spectra; Ultraviolet; Wavelengths; Barium; Cesium; Lanthanum; 16035. **SP305-8.**
- Spectra; Ultraviolet; Wavelengths; Iron; 16133. **SP305-8.**
- Spectra; Ultraviolet; Wavelengths; Yttrium; Zirconium; 16134. **SP305-8.**
- Spectra; Ultraviolet; Wavelengths; Zirconium; Molybdenum; Niobium; 16425. **SP305-8.**
- Spectra; Vacuum ultraviolet; Vibronic structure; Borazine; Gas phase; Matrix isolation; Photochemistry; 12459. **SP305-4.**
- Spectra; Vibrational assignment; Vibrational fundamental; Chlorodifluoramine; Infrared spectra; Matrix-isolation; 92. **SP305.**
- Spectra; Vibrational resonance; Absorption spectra; Infrared; Methyl chloride; Perturbations; 10578. **SP305-1.**
- Spectra; Wavelengths; Aluminum; 15008. **SP305-7.**
- Spectra; Wavelengths; Ce I and II; Cerium spectra; Infrared spectra; *J.76A No. 3, 285-304 (1972).* **SP305-4.**
- Spectra; Wavelengths; Chlorine; Energy levels; 14034. **SP305-6.**
- Spectra; Wavelengths; Praseodymium; 12257. **SP305-3.**
- Spectra; Zinc; Cadmium; Mercury; 13150. **SP305-5.**
- Spectra, atomic; Analyses of atomic spectra; Atomic spectra thru V; Bibliography, atomic spectra; Elements, spectra of thru V; References to atomic spectra; *SP306-1.* **SP305-1.**
- Spectra, atomic; Analyses of atomic spectra; Atomic spectra thru V; Bibliography, atomic spectra; Elements, spectra of thru V; References to atomic spectra; *SP306-1.* **SP305-1.**
- Spectra, atomic; Analyses of atomic spectra; Atomic spectra thru V; Bibliography, atomic spectra; Elements, spectra of thru V; References to atomic spectra; *SP306-1.* **SP305-1.**
- Spectra, atomic; Argon; Delayed coincidence; Lifetime; atomic; 10214. **SP305-1.**
- Spectra, atomic; Atomic spectra, multiplet table; Finding in atomic spectra; Multiplet table; *NSRDS-NBS40.* **SP305-4.**
- Spectra, atomic; Delayed coincidence; Lifetimes, atomic; Ne; 9849. **SP305-1.**
- Spectra, atomic; Elements, spectra of rare-earths; Analyses of rare-earth spectra; Atomic spectra; La through Lu, through Es; Rare-earth spectra; References to atomic spectra; *SP306-4.* **SP305-1.**
- Spectra, atomic; Spectra, rare-earth; Atomic spectra; Correlation spectra; Rare-earth spectra; Solar spectra; 11987. **SP305-3.**
- Spectra, atomic; Structure, atomic spectra; Atomic spectra; 12749. **SP305-4.**
- Spectra, atomic; Terbium; Transition probabilities; Oscillation strengths; 10739. **SP305-1.**
- Spectra, atomic; Wavelengths, atoms and ions; Atomic energy levels; Atomic spectra; Bibliography; Energy levels, atomic spectra; *SP363.* **SP305-4.**
- Spectra, carbon; Wavelengths, carbon spectra; Atomic energy levels, carbon spectra; Atomic spectra of carbon; Carbon spectra; Multiplet tables, carbon spectra; *NSRDS-NBS3, Section 3.* **SP305-3.**
- Spectra distribution; X-ray; Absorption; Light; Oscillation strength; 10934. **SP305-2.**
- Spectra, Dy I and Dy II; Intensity estimates, Dy spectra; Dysprosium spectra, temperature classification; Temperature classification, Dy I and Dy II; *J.74A No. 3, 355-394 (1972).* **SP305-2.**
- Spectra, far ultraviolet; Transition probabilities; Atomic spectra; Multiplet tables; Rare-earth spectra; 9210. **SP305.**
- Spectra from 10 keV to 15 MeV compared with calculated  $^{238}\text{U}$  pulsed sphere measurements; Implications for fusion-blanket calculations; *SP425*, pp. 704-707. **SP305-7.**
- Spectra H<sub>I</sub>, D, T; Wavelengths, hydrogen spectra H<sub>I</sub>, D, T; Atomic energy levels, H<sub>I</sub>, D, T; Hydrogen spectra, H<sub>I</sub>, D, T; Multiplet tables, H<sub>I</sub>, D, T; *NSRDS-NBS3, Section 6.* **SP305-4.**
- Spectra, N I, N II, N III; Wavelengths, nitrogen spectra N I, N II, N III; Atomic energy levels, N I, N II, N III; *NSRDS-NBS3, Section 5.* **SP305-7.**
- Spectra, Niv-Nvii; Wavelengths, nitrogen spectra Niv-Nvii; Atomic energy levels, Niv-Nvii; Nitrogen spectra, Niv-Nvii; Multiplet tables, Niv-Nvii; *NSRDS-NBS3, Section 4.* **SP305-3.**

spectra of late-type stars; Sun-spot spectra; Atomic spectra; Molecular spectra; Rare-earth spectra; Reference data programs; Solar spectra; *9950. SP305-1.*  
 Spectra of silicon, atomic and ionic in the sun; Sun, silicon in the; Silicon spectra in the sun's atmosphere; *12010. SP305-1.*  
 Spectra of technetium; Technetium, spectra of; Wavelengths of technetium; *J71A6-471, 547-565 (1967). SP305.*  
 Spectra of Th; Th I and Th II; Thorium spectra; Wavelengths of Th; Classified lines of Th I and Th II; Fourier transform spectra of Th; Infrared spectra of Th; *J78A No. 2, 247-281 (1974). SP305-6.*  
 Spectra, rare-earth; Atomic spectra; Coronal spectra; Rare-earth spectra; Solar spectra; Spectra, atomic; *11987. SP305-1.*  
 Spectra, rotational; Spectroscopy, microwave; Chemical analysis; Microwave spectroscopy; Microwave studies; Molecular structure; Rotational spectra; *9893. SP305-1.*  
 Spectra unfolding; Proton-recoil spectrometry; Pu-Bc and  $^{252}\text{Cf}$  neutron spectra; *SP425, pp. 62-65. SP305-7.*  
 Spectra V IV and V V; Terms, V IV and V V spectra; Vanadium, the fourth and fifth spectra of; Atomic spectra, V IV and V V; *J72A No. 4, 295-308 (1968). SP305-1.*  
 Spectra (visible); Titanium; Combustion; Laser ignition; *14723. SP305-7.*  
 Spectral; Absolute; Reflectance; *9744. SP305-1.*  
 Spectral; Absorbing; Anomalous dispersion; Carbon dioxide; Cryodeposit; Cryogenics; Frost; Infrared; Integrating sphere; Stars; Reflectance; Scattering; Simulation; *SP336, pp. 165-83. SP305-3.*  
 Spectral; Molecular; Vibrational; Frequencies; Data; Tables; Force; Constants; *NSRDS-NBS6. SP305.*  
 Spectral; Tables; Vibrational; Data; Frequencies; Molecular; *NSRDS-NBS17, Part 3. SP305-1.*  
 Spectral analysis; Acoustic emission; Dislocations; Nondestructive evaluation; *16602. SP305-8.*  
 Spectral analysis; Computer program; Isopropyl; NMR; Nuclear magnetic resonance; Phosphorus; *11897. SP305-3.*  
 Spectral analysis; Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Scatter; Microwave measurement; Mismatch; Network analyzer; Noise; Pulse generator; Pulse measurement; Sampling oscilloscope; Scattering parameters; *TN672. SP305-7.*  
 Spectral analysis; Tissue structure; Ultrasound; Color-coded B-scan; Fourier transform; *SP453, pp. 97-107 (Oct. 1976). SP305-8.*  
 Spectral analysis; Vibration; Analysis; Experimental; Floor systems; Human response; Random process; *TN904. SP305-1.*  
 Spectral analysis; Vibration; Analysis; Experimental; Floor systems; Human response; Random process; *NBSIR 75-951. SP305-8.*  
 Spectral assignments; Spin splitting; Zeeman spectrum; Asymmetric rotor levels;  $\text{HO}_2$ ; Laser magnetic resonance; Rotational constants; *15067. SP305-7.*  
 Spectral bandpass; Spectrophotometry; Standard reference materials; Stray radiation; Testing of spectrophotometers; Transmittance (absorbance) accuracy; Wavelength accuracy; Accuracy in spectrophotometry; Glass filters; *SP260-51. SP305-7.*  
 Spectral correction of phototubes; Filters; Photocells; Photometers; Photometry; Phototubes; *10117. SP305-1.*  
 Spectral densities; Electron scattering; Moment theory; Photoabsorption/ionization; *16359. SP305-8.*  
 Spectral densities; Noise power comparator; Power comparator; Prototype noise power comparator; Radiometers; *10153. SP305-1.*  
 Spectral density; Amplitude fluctuations; Cross-spectral density; Frequency domain; Frequency noise; Modulation noise; Noise specification and measurement; Oscillator noise; Phase noise; Radio frequency power spectral density; Script  $\mathcal{L}(f)$ ; Script  $\mathcal{M}(f)$ ; *14028. SP305-6.*  
 Spectral density; Spectrum analysis; Fractional frequency fluctuations; Frequency stability; Phase fluctuations; Power law noise processes; *TN679. SP305-8.*  
 Spectral density; Speed of light; Standard frequency broadcasts; Statistics of time/frequency measurements; Time; Time/frequency dissemination; Time scales; Timing (HF, LF, satellite, TV, VLF); Wavelength standards; WWV; WWVB; WWVH; WWVL; *SP350. SP305-3.*  
 Spectral density; Standard frequency and time broadcasts; Statistics of frequency and time measurements; Time scales; Time synchronizations; TV timing; VLF timing; Atomic beams; Atomic clocks; Atomic standards; Atomic time; *SP300. Volume 5. SP305-4.*  
 Spectral density; Statistics; Unbiased estimate; Variance; *TN375. SP305-1.*  
 Spectral density; Terminology standards; Allan variance; Frequency stability measurements; Measurement system description; Phase noise; *NBSIR 74-396. SP305-6.*  
 Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; Fast Fourier Transform; Gaussian distribution; Impulsive noise; *TN654. SP305-6.*  
 Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise; Digital data; Electromagnetic interference; Electromagnetic noise; Electromagnetic pulse (chemical); Emergency communications; Fast Fourier Transform; *NBSIR 74-388. SP305-6.*  
 Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise; Digital data; Electromagnetic communications; Electromagnetic interference; Electromagnetic noise; Fast Fourier Transform; Gaussian distribution; Impulsive noise; *NBSIR 74-389. SP305-6.*  
 Spectral density; Time-dependent spectral density; Amplitude probability distribution; Coal mine noise, digital electromagnetic communications; Electromagnetic interference; Electromagnetic noise; Fast Fourier Transform; Gaussian distribution; Impulsive noise; *NBSIR 74-390. SP305-6.*  
 Spectral density; Time-dependent spectral density; Amplitude probability distribution; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; Fast Fourier transform; Gaussian distribution; Impulsive noise; *NBSIR 74-391. SP305-7.*  
 Spectral density; Variance; Allan variance; Frequency; Frequency stability; Sample variance; *12228. SP305-3.*  
 Spectral density; Variance; Allan variance; Frequency; Frequency stability; Sample variance; *TN394. SP305-2.*  
 Spectral density; 1/f noise; Flicker noise; Low frequency noise; Mechanical model; Modulation noise; Noise; Noise model; Noise simulation; Precision measurements; Random noise; Reasonable perturbations; *10555. SP305-1.*  
 Spectral density of frequency fluctuations  $S_{\phi}(f)$ ; White phase modulation; Allan variance; Flicker of frequency modulation; Johnson noise; Linewidth; Random walk frequency modulation; *14828. SP305-7.*  
 Spectral density of frequency fluctuations; Time domain stability; Crystal controlled oscillator; Fast linewidth; Quartz crystal resonators; Short-term stability; *15673. SP305-7.*  
 Spectral density of frequency fluctuations; Time domain stability; Crystal controlled oscillator; Fast linewidth; Quartz crystal resonators; Short-term stability; *15687. SP305-7.*  
 Spectral density of phase; Global Positioning System; Phase-locked loop; Phase noise measurement system; *NBSIR 76-846. SP305-8.*  
 Spectral density of phase fluctuations; Spectral purity; Frequency multiplication; Linewidth; Multiplier chain; Precision oscillator; Rf spectrum; *15675. SP305-7.*

- Spectral density of states; *t*-matrices; Alloys; Brass; Delta-function potential; Disordered systems; Green's functions; Korringa-Kohn Rostoker (KKR); "muffin-tin" potential; Short-range-order parameters; *SP323*, pp. 509-514. **SP305-4.**
- Spectral distribution; Computer noise; Damage-risk criteria; Hearing loss; Noise control; Scanning analyzer; *12579*. **SP305-4.**
- Spectral distribution; Vibrationally excited; Chemiluminescence reaction; Emitting state; Enhanced reaction; Infrared laser; *14549*. **SP305-6.**
- Spectral distribution; Water vapor concentration; Wavelength; Wavenumber; Aerosol; Air mass; Ozone; Solar radiation; *9525*. **SP305.**
- Spectral distribution of scattered light; Structural relaxation; Thermal relaxation; Volume viscosity; Brillouin scattering; Density fluctuations in liquids; Rayleigh scattering; *J.72A No. 1*, 95-100 (1968). **SP305-1.**
- Spectral emission; Spectral radiometry; Standard phosphor samples; Phosphors; Photo-excitation; Photoluminescence; *TN417*. **SP305-1.**
- Spectral emissivity; Standard; Ceramic; Light; Photometry; *TN595*. **SP305-3.**
- Spectral emittance; Cryogenically cooled; *SP435*, pp. 149-156 (Apr. 1976). **SP305-8.**
- Spectral emittance; Spectral reflectance; Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; Radiation properties; Reflectance; *TN292*. **SP305.**
- Spectral emittance; Spectral reflectance; Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; Radiation properties; Reflectance; *10017*. **SP305-1.**
- Spectral emittance; Spectral reflectance; Averaging spheres; Diffuse reflectance; Emissivity; Emittance; Flux averaging devices; Infrared reflectance; Spectral reflectance; *TN415*. **SP305.**
- Spectral emittance; Surface roughness; Thermodynamic properties; Associated vapors; Graphite; Heat capacity; Molybdenum; Molybdenum pentafluoride; Niobium; Radiance temperature; *NBSIR 73-280*. **SP305-6.**
- Spectral emittance; Thermal radiation; Thoria; Zirconia; Alumina; Ceramic oxides; Emittance; Error sources; Magnesia; Measurement uncertainties; *J.70A5-412*, 393-415 (1966). **SP305.**
- Spectral emittance; Transition alloys; Vapor pressure; Electrical resistivity; Iron; Molybdenum pentafluoride; Partly associated vapors; Solid-state transformations; Solution calorimetry; Specific heat; *NBSIR 73-281*. **SP305-6.**
- Spectral indicators; Chromosphere; Conservation equations; Corona; *SP332*, pp. 241-258. **SP305-2.**
- Spectral intensity; Broadband interference; Field strength meter; Impulse standards; Receiver bandwidth calibration; *NBSIR 73-335*. **SP305-6.**
- Spectral intensity; Broadband signal generator; Impulse bandwidth; Receiver bandwidth calibration; RF burst generator; *NBSIR 74-371*. **SP305-8.**
- Spectral intensity; Spectrochemical analysis; High energy; High power; Laser probe; Laser vaporization; Photographic emulsion; Pit volume; Q-switched ruby laser; Quantitative; Spark excitation; *10005*. **SP305-1.**
- Spectral intensity; Spectrum amplitude; Spectrum amplitude density; Electromagnetic interference; Fourier transform; Impulse spectral intensity; *NBSIR 74-365*. **SP305-6.**
- Spectral intensity; UHF; VHF; Avalanche transistor; Frequency calibration; Impulse; Picosecond; *12785*. **SP305-4.**
- Spectral irradiance; Calibration; Light emitting diode; *16437*. **SP305-8.**
- Spectral irradiance; Filter-spectroradiometer; Measurement techniques; Prism-spectroradiometer; Radiometry; Sources; *10428*. **SP305-1.**
- Spectral irradiance; Spectral radiance; Irradiance; Radiometric standards; Radiometry; *SP336*, pp. 185-187. **SP305-3.**
- Spectral irradiance; Spectral radiant power density; CW laser; Detector spectral response; Electrically calibrated; pyroelectric detector; Radiometry; *15138*. **SP305-7.**
- Spectral irradiance; Total irradiance; Calibration technique; Radiometric standards; Solar constant; *11775*. **SP305-2.**
- Spectral line; Doppler broadening; Noncoherent scatter; Radiation scattering; *11335*. **SP305-2.**
- Spectral line; Expanding atmosphere; Red-shift; *10995*. **SP305-2.**
- Spectral line; Non-coherent scattering; Radiation transfer; Redistribution function; *10993*. **SP305-2.**
- Spectral line; Stellar chromospheres; Ca II; *14841*. **SP305-7.**
- Spectral line; Thermalization length; Noncoherent scatter; Radiative transfer; *11444*. **SP305-2.**
- Spectral line broadening; *ab initio* potentials; Atom-molecule interactions; Curved classical trajectories; HCl, CO, CO<sub>2</sub>, He, Ar; Rotation-vibration spectra; Semiclassical 5-mal; *16528*. **SP305-8.**
- Spectral line broadening; Classical path; *11518*. **SP305-2.**
- Spectral line broadening; Stark broadening; Symmetry group; Time ordering; Balmer lines; Four dimensional rotational group; Hydrogen; Plasma; Plasma broadening; Pressure broadening; Scattering matrix; *15009*. **SP305-7.**
- Spectral line broadening; Unified theory; Relaxation theory; Scalar additivity theory; *13867*. **SP305-6.**
- Spectral line formation; Anisotropic scattering; Limb darkening; Noncoherent scattering; Rayleigh scattering; *116*. **SP305-2.**
- Spectral line formation; Ca II; H $\alpha$ ; Solar chromosphere; *155*. **SP305-7.**
- Spectral line formation; Doppler broadening; Escape probability; Planetary nebula; *12180*. **SP305-3.**
- Spectral line formation; Helium; Radiative transfer; Solar chromosphere; *16609*. **SP305-8.**
- Spectral line formation; Radiative transfer; Solar active region; Solar chromosphere; *14863*. **SP305-7.**
- Spectral line formation; Spectroscopic diagnostics; Non-L radiative transfer; Resonance lines, Ca II; Solar chromosphere, physical properties; Solar chromosphere, structure; *12247*. **SP305-3.**
- Spectral line formation; Spectroscopic diagnostics; Non-L radiative transfer; Resonance lines, Ca II; Solar chromosphere, physical properties; *12248*. **SP305-3.**
- Spectral line formation; Spherical geometry; Early-type stars; Model atmospheres; Radiative transfer; *13688*. **SP305-5.**
- Spectral line formation; Spherical geometry; Stellar atmospheres; Moving atmospheres; Radiative transfer; *SP3*, pp. 87-118. **SP305-2.**
- Spectral line formation; Stellar atmospheres; Astrophysical; Early-type stars; Radiative transfer; *14751*. **SP305-7.**
- Spectral line formation; Stellar atmospheres; Astrophysical; Energy loss; Radiative transfer; *15489*. **SP305-7.**
- Spectral line formation; Stellar atmospheres; Radiative transfer; Relativistic effects; *16272*. **SP305-8.**
- Spectral line formation; Stellar chromospheres; *13358*. **SP305-5.**
- Spectral line formation; Variable-property media; Doppler width; Radiative transfer media; Riccati method; *107*. **SP305-1.**
- Spectral line profiles; Diffusion; Excitation exchange; Radiative transfer; *15714*. **SP305-8.**
- Spectral line profiles; Spherically symmetric gas clouds; Stellar atmospheres; Radiative energy loss; Radiative transfer; *14419*. **SP305-6.**
- Spectral line profiles; Statistical error analysis; X-ray line shapes; X-ray spectra; X-ray wavelength criteria; Lattice constants; Peak intensity; Physical constants; *J.72A No. 2*, 1-205 (1968). **SP305-1.**



etral line profiles; Stellar atmospheres; Gas dynamics; Radiative transfer; *14418. SP305-6.*  
 etral line scattering; Emissivity; Planetary atmospheres; Reflectivity; *12775. SP305-4.*  
 etral line widths; Molecular collisions; Scattering theory; *3863. SP305-6.*  
 etral line widths; Molecular collisions; Scattering theory; *3866. SP305-6.*  
 etral lines; Barrier height; Centrifugal distortion constant; coherent radiation technique; Dipole moment; Hindered rotation; Internal rotation; Microwave spectra; Molecular spectra; Polyatomic molecules; Quadrupole coupling constants; *Monogr. 70, Volume III. SP305-1.*  
 etral lines; Centrifugal distortion constant; Coherent radiation technique; Dipole moment; L-doubling; Microwave spectra; Molecular spectra; Polyatomic molecules; Quadrupole coupling constants; Rotational constant; *Monogr. 70, Volume IV. SP305-1.*  
 etral lines; Continuous absorption; Non-coherent scattering; Planck function; Source function; *10369. SP305-1.*  
 etral lines; Diatomic molecules; Hyperfine; Microwave spectra; Molecular spectra; Polyatomic molecules; Rotational quantum numbers; *Monogr. 70, Volume V. SP305-1.*  
 etral lines; Stark broadening; Stark shifts; Stark widths; Hydrogen; Plasma line broadening; *16406. SP305-8.*  
 etral lines; Transfer equation; Plasma diagnostics; Radiating gases; Radiative transfer; *13236. SP305-5.*  
 etral lines; Ultraviolet; Atomic spectra; Intensities; *Mono. 2, Supplement. SP305.*  
 etral lines; Velocity fields; Planetary nebulae; Radiative transfer; *10994. SP305-2.*  
 etral lines; Water; Asymmetric, linear, and symmetric top molecules; B rotational constants; Formaldehyde; Microwave spectra; *J.73A No. 2, 233-239 (1969). SP305-1.*  
 etral lines of Cu I; Atomic spectra; Copper; Cu I; Oscillator strengths; *J.74A No. 6, 781-790 (1970). SP305-2.*  
 etral measure; Tensor products; Convolution; Hilbert space; Separation of variables; *J. Res. 80B No. 3, 347-351 (1976). SP305-8.*  
 etral purity; Frequency multiplication; Linewidth; Multiplier gain; Precision oscillator; Rf spectrum; Spectral density of noise fluctuations; *15675. SP305-7.*  
 etral radiance; Blackbodies; Non-blackbody emission; Optical radiation; Radiometry; Sources; *9344. SP305.*  
 etral radiance; Irradiance; Radiometric standards; Radiometry; Spectral irradiance; *SP336, pp. 185-187. SP305-*  
 etral radiance; Spectroradiometer; Temperature; Arc; Blackbody; Graphite; *9326. SP305.*  
 etral radiance; Standards calibrations; Tungsten strip lamp; Blackbody; High temperature measurement; Radiometry; *1592. SP305-2.*  
 etral radiance; Transfer standards; Wall-stabilized arc; Aluminized; Deuterium lamp; Far ultraviolet; Hydrogen; Reft-Rössler lamp; *13646. SP305-5.*  
 etral radiance; Vacuum ultraviolet; Wall-stabilized; Arc; Aluminized; Hydrogen; Plasma; Radiometry; *15291. SP305-*  
 etral radiance; Wien equation; Brightness temperature; Color temperature; Effective wavelength; Infrared and far infrared optical pyrometry; Planck equation; Rayleigh-Jeans equation; *9310. SP305.*  
 etral radiance standard; Stark-broadening; Emission coefficient; Hydrogen; Hydrogen continuum; LTE; *J.75A No. 4, 31-333 (1971). SP305-3.*  
 etral radiant flux; Geometrically total luminous; Radiometry; *14478. SP305-6.*  
 etral radiant power density; CW dye laser; Detector spectral response; Electrically calibrated pyroelectric detector; Radiometry; Spectral irradiance; *15138. SP305-7.*  
 Spectral radiation; Transmittance; Firefighters; Protective clothing; Reflectance; *14346. SP305-6.*  
 Spectral radiometry; Standard phosphor samples; Phosphors; Photo-excitation; Photoluminescence; Spectral emission; *TN417. SP305-1.*  
 Spectral radius; Vector norm; Consistency; Matrix norm; Monotonicity; Principal submatrix; *J.79B Nos. 3 and 4, 97-102 (1975). SP305-7.*  
 Spectral reflectance; Spectral emittance; Spectral reflectance; Averaging spheres; Diffuse reflectance; Emissivity; Emittance; Flux averaging devices; Infrared reflectance; *TN415. SP305.*  
 Spectral reflectance; Spectral specular reflectance; Spectral reflectance; Standards; Ultraviolet reflectance; Aluminum; Gold; Infrared reflectance; Interferometer; Mirrors; Reflectance; Reflectance standards; *SP260-38. SP305-4.*  
 Spectral reflectance; Spectral transmittance; Transmittance variation; Vehicle glazing materials; Automobile paint colors; Automobile windshield color; Photometric tests; *NBSIR 74-519. SP305-6.*  
 Spectral reflectance; Spectrum of reflected sunlight; Ultraviolet and visible wavelengths; Planetary reconnaissance; *10644. SP305-1.*  
 Spectral reflectance; Stainless steel; Technique; Infrared; Low-temperature; Measurement; *11347. SP305-2.*  
 Spectral reflectance; Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; Radiation properties; Reflectance; Spectral emittance; *TN292. SP305.*  
 Spectral reflectance; Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; Radiation properties; Reflectance; Spectral emittance; *10017. SP305-1.*  
 Spectral reflectance; Water; 52 and 1962; Carbon dioxide; Frost; Infrared; *9829. SP305-1.*  
 Spectral region 80 Å to 630 Å; Vibrational band; Absorption spectrum; Rydberg series; *SF<sub>6</sub> 9637. SP305-1.*  
 Spectral resolution; Activation analysis; Component identification; Result computation; *12344. SP305-3.*  
 Spectral resolution; Statistics; Analytical chemistry; Curve fitting; Data reduction; Feature selection; Multivariate analysis; Optimization techniques; Pattern recognition; Signal processing; *15964. SP305-8.*  
 Spectral response; Detector; Infrared; Pyroelectric; *16472. SP305-8.*  
 Spectral response; Tungsten; Ultra-high vacuum; Vacuum ultraviolet; Heating effects; Photoelectron yield; *11469. SP305-2.*  
 Spectral responsivity; Calibration techniques; Infrared radiometers; Radiometric standards; Radiometry; *10600. SP305-1.*  
 Spectral series; Spectroscopic regularities; Atomic oscillator strengths; Atomic spectroscopy; Isoelectronic sequences; *11196. SP305-2.*  
 Spectral series; Spectroscopy; Wavelength; Energy levels; Ionization potential; Nickel; *J.75A No. 4, 335-336 (1971). SP305-3.*  
 Spectral series; Spectroscopy; Wavelength; Energy levels; Ionization potential; Nickel; *J.74A No. 6, 801-855 (1970). SP305-2.*  
 Spectral series; Systematic trends; Atomic oscillator strengths; Homologous atoms; Isoelectronic sequences; Regularities; *13645. SP305-5.*  
 Spectral series; Systematic trends; Continuum; Discrete spectrum;  $f$ -sum rule;  $f$ -values; Lithium sequence; Oscillator strength distribution; Oscillator strengths; Relativistic effects; *15817. SP305-8.*  
 Spectral series; Systematic trends;  $f$ -values; Isoelectronic sequence; Lithium sequence; Oscillator strengths; Relativistic effects; *JPCRD 5, No. 3, 537-570 (1976). SP305-8.*

- Spectral specular reflectance; Spectral reflectance; Standards; Ultraviolet reflectance; Aluminum; Gold; Infrared reflectance; Interferometer; Mirrors; Reflectance; Reflectance standards; Spectral reflectance; *SP260-38*, *SP305-4*.
- Spectral transmission; Spectrophotometer standards; Stray light; Wavelength scale; Errors in spectrophotometry; Photometric scale; Slit width; *J. Res.* **80A** No. 4, 625-630 (1976). *SP305-8*.
- Spectral transmission density; Densitometer; Microdensitometer; Radiochromic dye films; *J75C No. 1*, 23-27 (1971). *SP305-3*.
- Spectral transmittance; Transmittance variation; Vehicle glazing materials; Automobile paint colors; Automobile windshield color; Photometric tests; Spectral reflectance; *NBSIR 74-519*, *SP305-6*.
- Spectral transmittance of glass filters; Traffic signals; Aircraft signals; Color standards; Filter permanence; Limit filters; Railroad signals; Signal colors; Signal standards; *TN564*, *SP305-3*.
- Spectral wavelengths of Zn II; Atomic energy levels of Zn II; Ionized zinc; *J74A No. 1*, 11-22 (1970). *SP305-2*.
- Spectral weight function; Brillouin component; Dynamic scaling theory; Heisenberg paramagnet; Pair correlations; Rayleigh component; *10833*, *SP305-1*.
- Spectral-intensity; Arc; Nitrogen; Nonequilibrium; *11465*, *SP305-2*.
- Spectral-line formation; Stellar atmospheres; Early-type stars; Electron scattering; *16613*, *SP305-8*.
- Spectral-line intensities; Tables of spectral-line intensities; Wavelengths of spectral lines; Classification of spectral lines; Intensities of spectral lines; *Monogr. 145, Part I*, *SP305-7*.
- Spectral-line intensities; Tables of spectral-line intensities; Wavelengths of spectral lines; Classification of spectral lines; Intensities of spectral lines; *Monogr. 145, Part II*, *SP305-7*.
- Spectral-line intensities; Ultraviolet intensities; Atomic spectra; Intensities; *10331*, *SP305-1*.
- Spectrochemical; Analysis; Emission; Emission spectra; High energy; High power; Illuminating system; Laser probe; Laser vaporization; Q-switched ruby laser; Qualitative; Spark excitation; *10004*, *SP305-1*.
- Spectrochemical analysis; Arc discharge; Excitation sources; Fuel-rich flames; High-frequency torch; Laser probe; Plasma jet; Spark discharge; *10708*, *SP305-1*.
- Spectrochemical analysis; Arrax transform; Baker transform; Emulsion calibration; Kaiser transform; Photographic emulsions; Sampson transform; Seidel transform; *11384*, *SP305-2*.
- Spectrochemical analysis; Atomic absorption spectrometry; Atomic emission spectrometry; Detection limits; Inter-element effects; Plasma torch; Radio-frequency; *11172*, *SP305-2*.
- Spectrochemical analysis; Computers; Microphotometry; Photographic emulsion; Photographic photometry; Programs; *11385*, *SP305-2*.
- Spectrochemical analysis; Computers; Emulsion; Microphotometry; Photographic emulsion; Photographic photometry; Photometry; Programs; *11510*, *SP305-2*.
- Spectrochemical analysis; High energy; High power; Laser probe; Laser vaporization; Photographic emulsion; Pit volume; Q-switched ruby laser; Quantitative; Spark excitation; Spectral intensity; *10005*, *SP305-1*.
- Spectrochemical analysis; Laser probe; *10003*, *SP305-1*.
- Spectrochemical analysis; Spectrophotograph; Standard reference materials; Steel analysis; Target current scanning; Trace analysis; X-ray absorptiometry; X-ray fluorescence analysis; X-ray scans; Analytical curve functions; Color composite; Computer programs; *TN502*, *SP305-2*.
- Spectrochemical analysis; Spectroscopy; Standard reference materials; Time-shared computer; X-ray spectroscopy; Analysis; Arc temperature; Atomic absorption spectrometry; Analog computer; Bibliography; Computer; Electrodeposition; Electron back scatter; *TN401*, *SP305*.
- Spectrochemical analysis; Spectroscopic source; Arc; Boltzmann equilibrium; Excitation; Ionization; Line intensity; equilibrium; Spark; *9361*, *SP305*.
- Spectrochemical analysis; Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electrode probe; Microanalysis; Optical spectrometry; Pre-concentration techniques; *TN582*, *SP305-4*.
- Spectrochemical analysis; Standard reference materials; X-ray analysis; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; Vacuum spectrum Computing; Digital readout; Electron probe; Gold analysis; *TN422*, *SP305-1*.
- Spectrochemical analysis; Standard reference materials; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; X-ray mass attenuation coefficients; Zinc analysis; Computing; Digital readout; Electron probe; Emulsion calibration; *TN452*, *SP305-1*.
- Spectrochemical analysis; Statistics; X-ray; Analytical curves; Analytical functions; Emission spectrometry; Fluorescence spectrometry; *11386*, *SP305-2*.
- Spectrochemical analysis; Television cameras; Automatic Computers; Data acquisition; Emission spectroscopy; Microphotometers; *11756*, *SP305-2*.
- Spectrochemical analysis; Thermal analysis; Wet chemistry; X-ray fluorescence; Activation analysis; Characterization; Chemical composition; Chromatographic analysis; Fluorescence; Electron probe microanalysis; Ion-selective electrodes; Mass spectrometry; Polarography; *15165*, *SP305-2*.
- Spectrochemical analysis; Time-sharing computer; X-ray spectroscopy; Analytical chemistry; Calculations; Computer; Emission spectroscopy; Programming; *TN407*, *SP305-1*.
- Spectrochemical analysis; Trace analysis; Emission spectrometry; Excitation sources; Review; *11695*, *SP305-2*.
- Spectrochemical analysis; Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electrode probe; Microanalysis; Optical spectrometry; Pre-concentration techniques; *TN542*, *SP305-2*.
- Spectrochemical analysis; X-ray spectrochemical analysis; Standards; compacted or pressed; *10151*, *SP305-1*.
- Spectrofluorimetry; Spectrophotometry; Certification of standard reference materials; Differential thermal analysis; Fluorescence; Emission and atomic absorption; Gases in metals; *TN503*, *SP305-1*.
- Spectrofluorimetry; Total internal reflection; Emission anisotropy; Fluorescence; Photodetectors; Polarization; Quantum counters; Rhodamine B chloride; *16430*, *SP305-2*.
- Spectrofluorimetry; Viewing angle; Emission anisotropy; Fluorescence; Fluorescence quantum yield; Fluorescence standards; Fluorimetry; Polarization; *J79A No. 1*, 17 (1975). *SP305-7*.
- Spectrofluorimetry; Viewing angle; Emission anisotropy; Fluorescence; Fluorescence decay; Fluorescence quantum yields; Polarization; *15754*, *SP305-8*.
- Spectrofluorimetry; Water; Carcinogenic compounds; Partition coefficient; Photon counting; Polycyclic aromatics; *15755*, *SP305-8*.
- Spectrofluorimetry; 1,6-diphenyl-1,3,5-hexatriene; Fluorescence; Linear dichroism; Liquid crystals; Polarization; *J. Res.* **80A** No. 1, 15-33 (1976). *SP305-8*.
- Spectrofluorimeters; design; Spectrofluorimetry; absorption; Standard lamps; Standards; fluorescence; Thermopiles; Photometers; Calibration of spectrofluorimeters; Detector; solute; Fluorescence spectra, corrected; Quantum counter; *SP378*, pp. 137-150, *SP305-5*.
- Spectrofluorimeters; design; Spectrofluorimetry; absorption; Standard lamps; Standards; fluorescence; Thermopiles; Photometers; Calibration of spectrofluorimeters; Detector

lute; Fluorescence spectra, corrected; Quantum counters; **76A No. 6, 547-560 (1972). SP305-4.**

trofluorometric; Spectrophotometric; Ternary ion association complexes; Trace; Directly in organic phase; Exchange reactions; **11681. SP305-2.**

trofluorometry; Spectrophotometry; Standards; Accuracy; Critical parameters; Instrumentation; Linearity; Quantum efficiency; **SP378. SP305-5.**

trofluorometry, absolute; Standard lamps; Standards, fluorescence; Thermopiles; Actinometers; Calibration of spectrofluorimeters; Detectors, absolute; Fluorescence spectra, corrected; Quantum counters; Spectrofluorimeters, design; **J. 76A No. 6, 547-560 (1972). SP305-4.**

trofluorometry, absolute; Standard lamps; Standards, fluorescence; Thermopiles; Actinometers; Calibration of spectrofluorimeters; Detectors, absolute; Fluorescence spectra, corrected; Quantum counters; Spectrofluorimeters, design; **J. 76A No. 6, 547-560 (1972). SP305-4.**

trograph; Aberrations; Coma; Czerny-Turner; Geometrical optics; Plane grating; Ray tracing; **11431. SP305-2.**

trograph; Chip detectors; Ferrograph; Lube oil analysis; Magnetic drain plugs; Oil filters; Oil monitors; Particle detectors; **NBS-GCR-74-23. SP305-8.**

trograph; Spectrometer; Astigmatism; Czerny-Turner; **SP305.**

trograph; Standard reference materials; Steel analysis; Turrent scanning; Trace analysis; X-ray absorptiometry; X-ray fluorescence analysis; X-ray scans; Analytical curve actions; Color composite; Computer programs; Electron tube; **TN502. SP305-2.**

trograph; Synchrotron light; Grazing-incidence; 3-meter; Synchrotron alignment; 0.06 Å resolution; **9355. SP305.**

trograph slit; Diffraction; Partial coherence; **9940. SP305-**

trographic; Time-resolved; Electrical discharge; Exploding wires; High-speed; Photographic; **9623. SP305-1.**

rometer; Absolute cross section; Beam profile; Electron scattering; Scattering angle; Solid angle; **TN871. SP305-7.**

rometer; Astigmatism; Czerny-Turner; Spectrograph; **91. SP305.**

rometer; Azimuthal angle; Compton-Raman interaction; Compton; Polarization; Radiation; **12345. SP305-3.**

rometer; Fabry-Perot; **13448. SP305-5.**

rometer; KClO<sub>4</sub> nuclear quadrupole resonance; Pressure transducer; **J. 74C Nos. 1 and 2, 3-8 (1970). SP305-2.**

rometer; Standards; Aerospace; Applications; Materials structure analysis; Mössbauer effect; **9672. SP305-1.**

rometer; Structural analysis; Materials; Mössbauer; **11655. SP305-2.**

rometer alignment; Crystal alignment; Crystal polishing; Automatic locator; **10075. SP305-1.**

rometer calibration; Standard source; Synchrotron radiation; Vacuum ultraviolet; Irradiances; Radiometry; **J. 79A No. 761-774 (1975). SP305-7.**

rometer design; Background; Current monitoring; Detectors; Electron scattering; Experimental techniques; Least-squares fitting; On-line computer systems; Radiative tails; solution; **TN523. SP305-2.**

rometer drive; Lubrication in vacuum; Soft x-ray spectrometer; **11617. SP305-2.**

rometers; Spherical aberration; Third-order theory; Unit magnification; Cassegrain; Reflecting objective; **14802. SP305-7.**

rometers; X-ray microanalysis; Electron probe x-ray microanalysis; **10652. SP305-1.**

rometry; Electron temperature; Langmuir probe; Plasma; **92. SP305.**

rometric analysis; Stability; Trace elements; Viscosity; Calibration standards; Concentration validity; Flash point; Drying oil; Pour point; **TN751. SP305-5.**

Spectrometric analysis; Standard Reference Materials; Fe-35i alloy; Homogeneity testing; Metallography; Microprobe analysis; **SP260-22. SP305-3.**

Spectrometric colorimetry; Automatic-computer program; Colorimetry; Computer program; Ellipses; Photometric colorimetry; **9964. SP305-1.**

Spectrometric standards; Standard Reference Materials; W-Mo alloys; Electron probe analysis; Metallography; Powder metallurgy; **SP260-16. SP305-1.**

Spectrometric study; Atoms; Mass spectrometer; O atoms; **9784. SP305-1.**

Spectrometry; Accuracy; Circumvention; Emulsions; Homogeneity; Ions; Mass; Platinum; Precision; Replicate; Spark; **11847. SP305-3.**

Spectrometry; Atomic absorption spectrometry; Atomic fluorescence spectrometry; Emission spectrometry; Flame photometry; Isotopic analysis; Microanalysis; Review; **10581. SP305-1.**

Spectrometry; Atoms; Mass; Mechanisms; Nitrogen; Olefins; Rates; **9329. SP305.**

Spectrometry; Instrumentation; Iron; Low temperature; Magnetic field; Mössbauer effect; **11151. SP305-2.**

Spectrometry; Spectroradiometry; Analytical chemistry; Nomenclature; Photochemistry; Photometry; Physical optics; Radiometry; **16331. SP305-8.**

Spectrometry; Structure; Analysis; Carbohydrates; Conformations; Infrared spectra; **Monogr. 110. SP305-1.**

Spectrometry; Sulfur; Triple pass on-axis; Flame; Hydrogen; Long-path burner; Multichannel spectrometer; Non-metals; Overexcitation; Phosphorus; **12658. SP305-4.**

Spectrometry; X-ray analysis; X-ray fluorescence; Automation; Defraction; Detectors; **14384. SP305-6.**

Spectrometry; X-ray fluorescence; Analysis; Line interference correction; Silver dental alloys; Specimen preparation; **10419. SP305-1.**

Spectrometry; X-rays; Analysis; Electron probe; Microanalysis; **10979. SP305-2.**

Spectrometry; X-rays; Applications; Electron probe; Microanalysis; Metallurgy; **11586. SP305-2.**

Spectrometry-Mössbauer; Standard reference materials; Iron and its compounds; Mössbauer spectrometry; **10084. SP305-1.**

Spectrophotometer; Systematic errors; Transmittance; Beam geometry; High accuracy; Optical design; **13720. SP305-5.**

Spectrophotometer standards; Stray light; Wavelength scale; Errors in spectrophotometry; Photometric scale; Slit width; Spectral transmission; **J. Res. 80A No. 4, 625-630 (1976). SP305-8.**

Spectrophotometric; Ternary ion association complexes; Trace; Directly in organic phase; Exchange reactions; Spectrofluorometric; **11681. SP305-2.**

Spectrophotometric colorimetry; Visual colorimetry; Color dictionaries; Color vision; Colorimeters; Photoelectric tristimulus; **Monogr. 104. SP305-1.**

Spectrophotometric determination of vanadium; Analysis of steel samples; Extraction with  $\beta$ -isopropyltropolone; Simultaneous determination of vanadium and iron; **12335. SP305-3.**

Spectrophotometric matches; Colorimetric matches; Colorimetry; Color vision; Index of metamerism; Metamerism; **11073. SP305-2.**

Spectrophotometric measurements; Chemical dosimeter; Chemical dosimetry; Ferrous sulfate; Ferrous sulfate dosimeter; Ferric ions; Fricke dosimeter; Radiation dosimeter; Radiation dosimetry; Spectrophotometry; **12174. SP305-3.**

Spectrophotometric properties of pure NADH; ADP; ADP-ribose; Chromatography; Impurities in NADH preparations; NADH stability; Preparative chromatography on DEAE-cellulose; **16316. SP305-8.**

- Spectrophotometric standards; Steels and metallo-organics; Thermal analysis DTA standards; Trace elements-glass standards; Bilirubin solvent extraction with  $\beta$ -isopropyltolopnone; Clinical; Filter; Fluorimetric standards; Inert gas fusion; Lead-base alloys; Multi-element flame spectrometer; *TN544*. **SP305-2.**
- Spectrophotometric standards, clinical; Clinical spectrophotometry; accuracy, precision; Optical cuvettes; *SP378*, pp. 125-134. **SP305-5.**
- Spectrophotometric standards, clinical; Clinical spectrophotometry; accuracy, precision; Optical cuvettes; *J76A No. 5, 499-508 (1972)*. **SP305-4.**
- Spectrophotometric titration; Controlled potential coulometric; Molybdenum; Homogeneous precipitation; Aluminum; Beryllium; Thermoanalytical standards; Tricalcium silicate; Spectrophotometry; Antimony; High precision determination of nickel; *TN402*. **SP305.**
- Spectrophotometry; Absorption; Color; Colorant; Metamerism; Paint; Scattering; *11010*. **SP305-2.**
- Spectrophotometry; Antimony; High precision determination of nickel; Simultaneous determination copper; Cobalt; "releasing agents" in flame emission and atomic absorption; Magnesium; Ferrous SRMs; Stoichiometric mixtures uranium oxide; *TN402*. **SP305.**
- Spectrophotometry; Arsenic; Gas-blending; Gutzeit method; *NBSIR 73-260*. **SP305-7.**
- Spectrophotometry; Atomic absorption; Background correction; Delves Cup; Lead; *SP422*, pp. 1035-1043 (Aug. 1976). **SP305-8.**
- Spectrophotometry; Averaging spheres; Diffusing effectiveness; Efficiency; Flux averaging; Photometry; *15126*. **SP305-7.**
- Spectrophotometry; Bidirectional reflectance factor; Diffuse reflectance; Diffuse transmittance; Reflectance; *TN594-11*. **SP305-8.**
- Spectrophotometry; Certification of standard reference materials; Differential thermal analysis; Flame emission and atomic absorption; Gases in metals; Spectrofluorimetry; *TN504*. **SP305-1.**
- Spectrophotometry; Color; Color matches; Light-diffusing specimens; Reflectance spectrophotometry; *9822*. **SP305-1.**
- Spectrophotometry; Colour dosimeters; Dosimetry; Dyes; Glass; Plastics; Radiation; Radiochromic dyes; *15960*. **SP305-8.**
- Spectrophotometry; Dose distribution; Dosimetry; Dyes; Electron beams; Gamma rays; Glasses; Plastics; Radiation chemistry; Radiation sterilization; Solid-state detectors; *14734*. **SP305-7.**
- Spectrophotometry; Double-aperture method; Light addition; Nonlinearity correction; Photomultiplier nonlinearity; *13044*. **SP305-4.**
- Spectrophotometry; Infrared; Linear polyethylene; Methyl; Methylene; Number average molecular weight; Spectra; *J76A No. 2, 141-142 (1972)*. **SP305-4.**
- Spectrophotometry; Spectrophotometric measurements; Chemical dosimeter; Chemical dosimetry, ferrous sulfate; Ferrous sulfate dosimeter; Ferric ions; Fricke dosimeter; Radiation dosimeter; Radiation dosimetry; *12174*. **SP305-3.**
- Spectrophotometry; Specular gloss; Accuracy; Appearance; Error analysis; Gloss; Photometry; Reflectance; Scattering; *TN594-10*. **SP305-7.**
- Spectrophotometry; Sphere coatings; Averaging sphere; Efficiency; Radiometry; *15896*. **SP305-8.**
- Spectrophotometry; Standard reference materials; Ultraviolet; UV achromats; Visible; Averaging sphere; Deuterium arc lamp; Fluorescent wavelength converter; Grating; *J78A No. 5, 631-636 (1974)*. **SP305-6.**
- Spectrophotometry; Standard reference materials; Stray radiation; Testing of spectrophotometers; Transmittance (absorbance) accuracy; Wavelength accuracy; Accuracy in spectrophotometry; Glass filters; Spectral bandpass; *SP260-51*. **SP305-7.**
- Spectrophotometry; Standards; Accuracy; Critical parameters; Instrumentation; Linearity; Quantum efficiency; Trofluorometry; *SP378*. **SP305-5.**
- Spectrophotometry; Standards; Uncertainty; Variability; pearance evaluation; Colorimetry; Color spacing; Color; Gloss; Metamerism; *SP300, Volume 9*. **SP305-4.**
- Spectrophotometry; Standards for spectrophotometry; Colorimetry; Keegan, Harry J.; Photointerpretation; color codes; *11414*. **SP305-2.**
- Spectrophotometry; Starch; Hydrolyzates; Infrared; Moisture; Near-infrared; *14503*. **SP305-6.**
- Spectrophotometry; Statistical methods; Zinc; Atomic absorption; Cadmium; Copper; Lead; Manganese; Sensitivity; *SP422*, pp. 1023-1033 (Aug. 1976). **SP305-8.**
- Spectrophotometry; Thermostat; Ultraviolet-visible; %T; +60 °C; *9316*. **SP305.**
- Spectrophotometry; Thin films; Dose distribution; Dosimetry; Electron beams; Microdensitometry; *12945*. **SP305-4.**
- Spectrophotometry; Trace elements; Water pollution; Fluorescence; Air pollution; Atomic absorption; Electrode; Microprobe; Emission spectroscopy; Environmental analysis; Industrial effluents; Ion-selective electrodes; Nuclear analysis; *13783*. **SP305-5.**
- Spectrophotometry; Translucency; Transmittance; Viscosity; Blurring effect; Edge loss; Error analysis; Flux; Plastics; Reflectance; Scattering; *TN594-12*. **SP305-8.**
- Spectrophotometry; Transmittance; Accuracy; Appearance; Colorimetry; Definition of spectrophotometry; Error analysis; Photometry; Radiation transfer; Reflectance; Scattering; *TN594-9*. **SP305-6.**
- Spectrophotometry; Transmittance standards; Accuracy; retardation plates; Polarization attenuators; Sheet polarizers; *12660*. **SP305-4.**
- Spectrophotometry; Triphenyl methane; X- and  $\gamma$ -rays; X-ray; Dosimetry; Dyes; Electron beams; Reflection; *16444*. **SP305-2.**
- Spectrophotometry; Ultraviolet; Visible; Averaging spheres; fusing effectiveness; Efficiency; Fluorescent wavelength converter; Photometry; *16333*. **SP305-8.**
- Spectrophotometry; Uniformity of dosimetry; Calibration methods; Facilities of users; Ferrous sulfate; Fricke; energy electrons; NBS service; *10922*. **SP305-2.**
- Spectrophotometry; Vision; Bibliography; Color; Colorimetry; Color measurement; *SP393*. **SP305-6.**
- Spectrophotometry; X-ray fluorescence spectroscopy; Absorption spectrophotometry; Emission spectrophotometry; Nickel; Nickel-base alloys; Polarography; *SP422*, pp. 1016 (Aug. 1976). **SP305-8.**
- Spectrophotometry and spectrofluorimetry; Standard reference materials; Atomic absorption and atomic fluorescence spectrometry; Differential thermal analysis; Flame emission; Gases in metals; Gravimetry and titrimetry; *TN454*. **SP305-1.**
- Spectrophotometry, high accuracy; High accuracy spectrophotometry, physical parameters; Linearity test; photodetector; *SP378*, pp. 81-93. **SP305-5.**
- Spectrophotometry, high accuracy; High accuracy spectrophotometry, physical parameters; Linearity test; photodetector; *J76A No. 5, 455-467 (1972)*. **SP305-4.**
- Spectrophotometry, high accuracy; Standard reference materials in spectrophotometry; Transmittance; Absorbance; Accuracy of accurate spectrophotometer; Instrumentation; Spectrophotometric; *SP378*, pp. 31-51. **SP305-5.**
- Spectrophotometry, high accuracy; Standard reference materials in spectrophotometry; Transmittance; Absorbance; Accuracy of accurate spectrophotometer; Instrumentation; Spectrophotometric; *J76A No. 5, 405-425 (1972)*. **SP305-4.**
- Spectrophotometry, high accuracy; Systematic bias in spectrophotometry; Transmittance, correction; Corrective



Reflections; Reflections, multiple; *J.77A No. 6, 699-703* (1973). **SP305-5.**

Photometry SRMs; Clinical chemistry; Organic SRMs; Standard reference materials; *12194. SP305-3.*

Radiometer; Standard of spectral irradiance; Integrating sphere; Solar simulator; *9256. SP305.*

Radiometer; Temperature; Arc; Blackbody; Graphite; Spectral radiance; *9326. SP305.*

Radiometry; Analytical chemistry; Nomenclature; Photochemistry; Photometry; Physical optics; Radiometry; Spectrometry; *16331. SP305-8.*

Radiometry; Barnes colorimeter; Chromaticity coordinate; Color correction; Cool white fluorescent lamp; Correlated color temperature; Daylight fluorescent lamp; Dichromatic photometry; Integrating sphere; Intercomparison; Luminous flux; *TN559. SP305-3.*

Radiometry; Optical radiation measurement; Photometry; Radiometry; *TN910-1. SP305-8.*

Radiometry; Ultraviolet; Natural ultraviolet; Radiometry; Solar irradiance; *11455. SP305-2.*

Spectroscopy; Pellin-Broca prism; *13584. SP305-5.*

Spectroscopy; Absorption; Antireflection coatings; Attenuated total reflection; Laser windows; *SP462, pp. 246-252 (Dec. 1976). SP305-8.*

Spectroscopic analysis; Dye laser; Isotope separation; Photochemistry; Review; Saturation spectroscopy; *13818. SP305-6.*

Spectroscopic application; Heat pipe; Indium iodide; Laser application; Sodium; *13462. SP305-5.*

Spectroscopic constant; Valence orbital; Electron scatter; Energy curve; Local potential;  $N_2$ ; Resonance width; Shape resonance; *11899. SP305-3.*

Spectroscopic constants; *Ab initio* electronic calculation; Dipole moment; Dissociation energy; Electron affinity; Energy; Field effect; Magnetic constants; Molecular electronic structure; Orbital energy; Polarizability; Quadrupole moment; *TN438. SP305.*

Spectroscopic constants; Critical review; Electronic spectrum; Molecular oxygen; Potential energy curves; Rotational spectrum; *J. Phys. Chem. Ref. Data 1, No. 2, 423-534 (1972). SP305-6.*

Spectroscopic constants; Spin-rotation constants; Infrared spectrum; Nitrogen dioxide,  $\nu_2$  band; Nitrogen dioxide,  $\nu_3 + \nu_2 - \nu_2$  band; Rotational constants; *17553. SP305-8.*

Spectroscopic data; Atomic spectra; Fundamental spectroscopic data; *12613. SP305-4.*

Spectroscopic data; Thermodynamic data; X-ray diffraction data; Binary halides; Crystal structure transformation; Electronic data; Phase transformation; *NSRDS-NBS41. SP305-4.*

Spectroscopic data; Transition probabilities; Wavelength standards; Cross sections; Draft Report IAU Commission 14; International Astronomical Union; *11796. SP305-2.*

Spectroscopic diagnostics; Non-LTE radiative transfer; Resonance lines, Ca II; Solar chromosphere, physical properties; Solar chromosphere, structure; Spectral line formation; *247. SP305-3.*

Spectroscopic diagnostics; Non-LTE radiative transfer; Resonance lines, Ca II; Solar chromosphere, physical properties; Spectral line formation; *12248. SP305-3.*

Spectroscopic diagnostics; Optically thin line emission; Radiative transfer; Solar corona; *12924. SP305-4.*

Spectroscopic diagnostics; Optically thin line emission; Radiative transfer; Solar corona; *12925. SP305-4.*

Spectroscopic diagnostics; Optically thin line emission; Radiative transfer; Solar corona; *12926. SP305-4.*

Spectroscopic regularities; Atomic oscillator strengths; Atomic spectroscopy; Isoelectronic sequences; Spectral series; *11196. SP305-2.*

Spectroscopic slit; Diffraction; Luminosity; Optimal performance; Partial coherence slit illumination; Resolution; *9941. SP305-1.*

Spectroscopic source; Arc; Boltzmann equilibrium; Excitation; Ionization; Line intensity; Saha equilibrium; Spark; Spectrochemical analysis; *9361. SP305.*

Spectroscopic thermometry; Standards; Temperature scales; Thermoelectric thermometry; Acoustical thermometry; Cerous magnesium nitrate thermometer; Error analysis; Liquid-in-glass thermometry; Reprints; Resistance thermometry; *SP300, Volume 2. SP305-1.*

Spectroscopy; Absorption cell; Far infrared; Nonresonant cavity; *12698. SP305-4.*

Spectroscopy; Absorption-dispersion mixtures; Lorentzian lineshape; *11046. SP305-2.*

Spectroscopy; Alkali dimer; Magnetic rotation; Molecular constants; Perturbations; Sodium molecule; *15516. SP305-7.*

Spectroscopy; Analytical emission; Atomic absorption; Electrical discharge; Bibliography; Indexed; Flame; *M281. SP305.*

Spectroscopy; Aromatic amine; Multiple regression analysis; Nuclear magnetic resonance; Polymer; Proton magnetic resonance; *12431. SP305-4.*

Spectroscopy; Astronomical OH emission;  $H_2O$  laser; Magnetic resonance; OH; *11954. SP305-3.*

Spectroscopy; Atomic absorption spectrometry; Atomic emission spectrometry; Atomic fluorescence spectrometry; Flame photometry; *9481. SP305.*

Spectroscopy; Atomic spectra; Energy levels; Iron; Iron, lifetimes in; Lifetimes in Fe I; Radiative lifetimes; *J.71A6-472, 567-573 (1967). SP305.*

Spectroscopy; Atoms; Classification; Energy levels; Ions; Rare earths; *16022. SP305-8.*

Spectroscopy;  $A^2$ ; Baryons, exotics; Mesons; Quarks; *13295. SP305-5.*

Spectroscopy; Bibliography; Data; Infrared; Inorganic; Minerals; Ores; Organic; Polymers; *SP428, Parts 1, 2, and 3. SP305-8.*

Spectroscopy; Bond angle; Bond length; Franck-Condon factors;  $H_2O$ ;  $NH_3$  ion; Photo-electron; Photo-ionization; *10845. SP305-1.*

Spectroscopy; Carbonyl sulfide; Energy levels;  $\theta$ -doublet transitions; Microwave spectra; Molecular structure; OCS; Spectra; *9919. SP305-1.*

Spectroscopy; Chloride; Ellipsometry; Passive film; *12462. SP305-4.*

Spectroscopy; Crystal dynamics; Crystallography; Crystal structure; Inorganic; Molecular solid; Organic; Polymers; Rotation; *10417. SP305-1.*

Spectroscopy; Cw dye laser; Double resonance; Microwave; *14275. SP305-6.*

Spectroscopy; Cyclopropane; Energy levels; Infrared; l-type resonance; Molecular structure; *12544. SP305-4.*

Spectroscopy;  $C_2H_2$ ; Franck-Condon principle;  $H_2O$ ;  $NH_3$ ;  $N_2O$ ; Photoelectrons; Photoionization; *12118. SP305-3.*

Spectroscopy; Diatomic mercury; Excimer molecules; Fluorescence; Lasers; NaK molecule; *15665. SP305-7.*

Spectroscopy; Dielectric constant; Electric dipole moments; Gas phase; Microwave; Microwave absorption; Molecular beam; Permittivity; Refractive index, *NSRDS-NBS10. SP305.*

Spectroscopy; Dirac theory; Hydrogen; Line strength; Oscillator strength; Relativistic corrections; *J.79A No. 5, 629-633 (1975). SP305-7.*

Spectroscopy; Dosimetry; Filtered beams; Neutrons; *SP425, pp. 116-118. SP305-7.*

Spectroscopy; Dual spectra; Mössbauer; Multiplex; *10423. SP305-1.*

Spectroscopy; Dye laser; Laser; Organic dye laser; *12517. SP305-4.*

Spectroscopy; Electron beam excitation; Heat pipe oven; Lasers; Metal vapors; Noble gas; *16234. SP305-8.*

- Spectroscopy; Ellipsometry; Iron; Kinetics; Optical constants; Passive; Pitting; 16216. **SP305-8.**
- Spectroscopy; HCN laser; Laser magnetic resonance;  $\text{NO}_2$ ; 12936. **SP305-4.**
- Spectroscopy; High temperature; Hydrogen cyanide; Infrared; Molecular term values; Spectra; 15436. **SP305-7.**
- Spectroscopy; Infrared matrix; Infrared spectra; Isolation spectroscopy; Lithium oxide species; Matrix spectra; 10683. **SP305-1.**
- Spectroscopy; Isomeric state nuclide; Mössbauer spectroscopy; Palladium matrix; 10752. **SP305-1.**
- Spectroscopy; Laser; Methane; Optical frequency standards; Saturated absorption; 13329. **SP305-5.**
- Spectroscopy; Laser; Saturated absorption; 13087. **SP305-5.**
- Spectroscopy; Spectrum of tungsten; Tungsten; Wavelengths; Atomic spectra; Energy Levels; *J.72A No. 6, 609-755 (1968).* **SP305-1.**
- Spectroscopy; Standard; Differential chemical shift; Quadrupole splitting; Random error; Systematic error; Sodium nitropresside; Iron compounds; Optical Mossbauer spectrometer; Tandem Mossbauer spectrometer; Velocity calibration; Mossbauer; *M260-13.* **SP305.**
- Spectroscopy; Standard reference materials; Time-shared computer; X-ray spectroscopy; Analysis; Arc temperature; Atomic absorption spectrometry; Analog computer; Bibliography; Computer; Electrodeposition; Electron back scatter; Electron probe microanalyzer; *TN401.* **SP305.**
- Spectroscopy; Standards; Vacuum ultraviolet; Wavelength; Energy levels; Silicon; 10001. **SP305-1.**
- Spectroscopy; Stark effect; Carbonyl sulfide; Dipole moments; Infrared; Lasers; Spectra; 16181. **SP305-8.**
- Spectroscopy; State measurements; Thermochemistry; Calorimetry; Chemical energy; Chemical thermodynamic data; Energy scale (chemical); Equilibrium measurements; Mass spectrometry; Measurement system; 15450. **SP305-7.**
- Spectroscopy; Sun-molecules; Molecules; 9953. **SP305-1.**
- Spectroscopy;  $\text{SU}(3)$ ;  $\text{SU}(6)_W$ ;  $A_2$ ; Mesons; Resonances; 12009. **SP305-3.**
- Spectroscopy; Theoretical physics; Atomic physics; Classification; Levels; Lifetimes; 10766. **SP305-1.**
- Spectroscopy; Tools, analytical; Analytical tools; Electron paramagnetic resonance; Nuclear magnetic resonance; Paramagnetic resonance; 9701. **SP305-1.**
- Spectroscopy; Trace detection; Tunable lasers; Discharge; Discharge tubes; Hollow cathode; 16604. **SP305-8.**
- Spectroscopy; Transistor; Zeeman; Current; Modulator; Nuclear; Pulse; Quadrupole; Resonance; 12350. **SP305-3.**
- Spectroscopy; Transition probabilities; Atomic spectra; Cross section;  $f$ -values; Molecular spectra; Photoionization; Rare earths; Review; 12683. **SP305-4.**
- Spectroscopy; Transition probabilities; Atomic spectra; References; 12169. **SP305-3.**
- Spectroscopy; Transition probability; Argon; Plasma; 10071. **SP305-1.**
- Spectroscopy; Transition probabilities; Wave functions; Ions; Oscillator strengths; Quantum mechanics; 16209. **SP305-8.**
- Spectroscopy; Triplet state; Absorption spectrum; Excited states; Ketene; 12075. **SP305-3.**
- Spectroscopy; Ultraviolet; X-rays; Absorption; Radiation; 9311. **SP305.**
- Spectroscopy; Vacuum ultraviolet; Analytical; Atomic emission; Detector; Gas chromatography; 12267. **SP305-3.**
- Spectroscopy; Vacuum ultraviolet; Absorption; Analysis; Gas; Photochemistry; *TN476.* **SP305-1.**
- Spectroscopy; Vacuum ultraviolet; Absorption; Analysis; Gas; Photochemistry; 11493. **SP305-2.**
- Spectroscopy; Vacuum ultraviolet; Xenon; 4d absorption; Atomic structure; Inner shell;  $N_{\text{H}}$ ; Resonance cross section profiles; 10554. **SP305-7.**
- Spectroscopy; Vacuum ultraviolet; 4d photoabsorption; Atomic structure; Barium;  $N_{\text{H}}$  edges; 15845. **SP305-8.**
- Spectroscopy; Vacuum UV; Oscillator strengths; Methylals; Methylene; 12290. **SP305-3.**
- Spectroscopy; Vibration; Absorption spectra; Infrared; Immentation; Potential functions; 11379. **SP305-2.**
- Spectroscopy; Vibration; Crystal; Crystal structure; Diffraction; Lattice dynamics; Molecular dynamics; Molecular Rotation; *SP301.* **SP305-1.**
- Spectroscopy; Vibrational fundamentals; Hydrogen cyanide; Infrared; Molecular spectroscopy; 15925. **SP305-8.**
- Spectroscopy; Wave functions; Correlation; Energy levels; Oscillator strengths; 13928. **SP305-6.**
- Spectroscopy; Wavelength; Energy levels; Ionization potential; Nickel; Spectral series; *J.75A No. 4, 335-336 (1971).* **SP305-3.**
- Spectroscopy; Wavelength; Energy levels; Ionization potential; Nickel; Spectral series; *J.74A No. 6, 801-855 (1970).* **SP305-2.**
- Spectroscopy; Wavelengths; Atomic spectra; Chlorine; 11330. **SP305-2.**
- Spectroscopy; X rays; Conference review; Electron probe microanalysis; Microscopy; 14354. **SP305-6.**
- Spectroscopy; X-ray diffraction; Diamond cell; Electrical resistance; High pressure; Nuclear decay; Pressure calibration; 16375. **SP305-8.**
- Spectroscopy; X-ray photoelectron; Chemical shifts; Chromium; ESCA; Nitric oxide; Nitrogen; 14271. **SP305-6.**
- Spectroscopy; 1,2,4,6-di-*O*-benzylidene- $\alpha$ -D-glucopyranose; Conformations; Coupling constants; Iterative analysis; dioxane ring; Proton magnetic resonance; Pyranoid; 11874. **SP305-3.**
- Spectroscopy facilities; Accelerators; Acoustic facilities; Calorimeters; Electrical measurements facilities; High pressure facilities; High temperature facilities; *SP413, 1976.* **SP305-8.**
- Spectroscopy facilities; Acoustic facilities; Accelerometers; Calorimeters; Electrical measurements facilities; High pressure facilities; High temperature facilities; *SP413.* **SP305-8.**
- Spectroscopy, microwave; Chemical analysis; Microwave spectroscopy; Microwave studies; Molecular structure; Rotational spectra; Spectra, rotational; 9893. **SP305-1.**
- Spectrum; Absorption; Heat pipe; K-edge; Lanthanum; Resonances; 13757. **SP305-5.**
- Spectrum; Alpha particles; Cross section; Helium; Neutron; *SP425, pp. 810-812.* **SP305-7.**
- Spectrum; Ammonia; Infrared; Inversion; Laser; Molecular; 9892. **SP305-1.**
- Spectrum; Angular field of values; Diagonal; Diagonally dominant; Field of values; Gersgorin; Hadamard product; Hadamard; Positive definite; 15272. **SP305-7.**
- Spectrum; Atomic energy levels; First spectrum of praseodymium (Pr II); 13207. **SP305-5.**
- Spectrum; Atomic energy levels; Isoelectronic sequence; Praseodymium; Rare earth; Sliding spark discharge; *J.71A6-474, 583-585 (1967).* **SP305.**
- Spectrum; Calibration; Construction; Na-D photonic sources; Radiolysis; *SP425, pp. 112-115.* **SP305-7.**
- Spectrum; Chromospheric flash spectrum; Chromospheric spectrum; Solar disk; 9259. **SP305.**
- Spectrum; D-stable; Positive stable matrix; *J.78B No. 1, 101-102 (1974).* **SP305-6.**
- Spectrum; D-stable matrix; Diagonal; Doubly stochastic matrix; Field of values; Gersgorin circles; Numerical radius; Positive definite; 13994. **SP305-6.**
- Spectrum; D-stable matrix; Positive diagonal matrix; Quadratic forms; 15252. **SP305-7.**
- Spectrum; Eigenvalues; Field of values; H-stable; Positive definite matrix; *J.78B No. 4, 197-198 (1974).* **SP305-6.**

Spectrum; Eigenvector; Normal matrix; Numerical range; Orthogonal; 16348. **SP305-8.**  
 Spectrum; Energy; Energy levels; Europium; Ionization; 14755. **SP305-7.**  
 Spectrum; Energy levels; Rhenium; 15380. **SP305-7.**  
 Spectrum; Fine-structure splitting; Hyperfine structure; Ionization energy; Lanthanum; 10771. **SP305-1.**  
 Spectrum; Graph isomorphism; Labels; Modified adjacency matrix; *J. Res.* **80B** No. 4, 447-483 (1976). **SP305-8.**  
 Spectrum; Hydrogen bromide; Hydrogen chloride; Infrared; Rare gas matrix; 9359. **SP305.**  
 Spectrum; Line classifications; Praseodymium; Pr III; *J.78A* No. 555-593 (1974). **SP305-6.**  
 Spectrum; Positive stable matrix; Sign-symmetry; *J.78B* No. 1, 2 (1974). **SP305-6.**  
 Spectrum; Review; Carbon monoxide; *NSRDS-NBS5*. **SP305.**  
 Spectrum; Spectrum amplitude; Calibration; Fourier transform; Impulse generator; Pulse measurement; 16463. **SP305-8.**  
 Spectrum; Spectrum amplitude; Step recovery diode; Impulse generator; Picosecond; 15658. **SP305-7.**  
 Spectrum; Spectrum of neutral iron; Transition probabilities in Fe I; Fe I; Iron; Oscillator strengths; *Monogr.* **108**. **SP305-1.**  
 Spectrum; Square matrix; Cramped; Field of values; Open positive convex cone; Polar decomposition; Positive definite; *78B* No. 1, 7-10 (1974). **SP305-6.**  
 Spectrum; Standards; Ultraviolet; Vacuum; Wavelengths; Carbon; Copper; Germanium; Ritz; Silicon; 9338. **SP305.**  
 Spectrum; Subadditive set valued function; Eigenvalues; Field of values; Gersgorin set; Numerical radius; 13845. **SP305-6.**  
 Spectrum; Tantalum; Ionization energy; Nuclear moment; 1381. **SP305-7.**  
 Spectrum; Terbium; Energy levels; Ionization energy; 15924. **SP305-8.**  
 Spectrum; Thioformaldehyde; High resolution; Infrared; Rotational constants; Short lived molecule; 12500. **SP305-4.**  
 Spectrum; Thulium; Wavelengths; Energy levels; *J.77A* No. 1, 43 (1973). **SP305-5.**  
 Spectrum; Transition probabilities; Neon; 11867. **SP305-3.**  
 Spectrum; Transition probabilities; Arc; Iron; Oscillator strengths; 11722. **SP305-2.**  
 Spectrum; Ultraviolet; Vacuum ultraviolet; Free radical; Infrared; Matrix isolation; Methyl; Methylene; Photolysis; Rotation; 10404. **SP305-1.**  
 Spectrum; Unitary; Adjoint; Hilbert's Theorem 90; Involution; Normal; Similar; 14891. **SP305-7.**  
 Spectrum; Uranium; Actinide; Atomic energy levels; Isoelectronic sequence; Protactinium; Rare earth; Sliding spark discharge lamp; 15990. **SP305-8.**  
 Spectrum; Vacuum ultraviolet; Absorption; Carbon monoxide; Forbidden transition; High resolution; 9330. **SP305.**  
 Spectrum; Vacuum ultraviolet; Atomic spectrum; Calculated wavelengths; Nitrogen; 9339. **SP305.**  
 Spectrum; Variational; Vlasov; Classical; Collective variables; Genfunctions; Eigenvalues; Many-body; 10145. **SP305-1.**  
 Spectrum; Vibration; Cesium hydroxide; Dipole moment; High temperature; Microwave; Molecular structure; 9895. **SP305-**  
 Spectrum; Vibration-rotation; Dimethylacetylene; Internal rotation; Rotational constants; 12170. **SP305-3.**  
 Spectrum; Wavelengths; Cerium; Ce II; Energy levels; *J.77A* No. 4, 419-546 (1973). **SP305-5.**  
 Spectrum; Wavelengths; Ytterbium; Energy levels; 15920. **SP305-8.**  
 Spectrum; Ytterbium; Energy levels; 13660. **SP305-5.**  
 Spectrum amplitude; Calibration; Fourier transform; Impulse generator; Pulse measurement; Spectrum; 16463. **SP305-8.**  
 Spectrum amplitude; Spectrum amplitude density; Electromagnetic interference; Fourier transform; Impulse spectral intensity; Spectral intensity; *NBSIR* 74-365. **SP305-6.**  
 Spectrum amplitude; Step recovery diode; Impulse generator; Picosecond; Spectrum; 15658. **SP305-7.**  
 Spectrum amplitude; Time domain; Transient; Automated measurement; Pulse; Rise time; Sampling oscilloscope; 16477. **SP305-8.**  
 Spectrum amplitude density; Electromagnetic interference; Fourier transform; Impulse spectral intensity; Spectral intensity; *NBSIR* 74-365. **SP305-6.**  
 Spectrum analysis; Fractional frequency fluctuations; Frequency stability; Phase fluctuations; Power law noise processes; Spectral density; *TN679*. **SP305-8.**  
 Spectrum analyzer; Antenna; Microwave; Minicomputer; Radiofrequency; RF exposure; *SP456*, pp. 203-213 (Nov. 1976). **SP305-8.**  
 Spectrum analyzer standardization; Termination mismatch error elimination; Thin-film bolometers; Voltage measurement; BOLOVAC; Calibration of current meters through microwaves; Calibration of power meters through microwaves; *Monogr.* **123**. **SP305-4.**  
 Spectrum averaged cross section;  $^{235}\text{U}(n,f)$ ;  $^{235}\text{Cf}$ ; Fission spectrum; *SP425*, pp. 266-269. **SP305-7.**  
 Spectrum, Hf I; Zeeman effect, Hf I; Analysis, Hf I spectrum; Hafnium, analysis of first spectrum; *Monogr.* **153**. **SP305-8.**  
 Spectrum O I; Wavelengths, O I; Atomic energy levels, O I; Atomic spectra, O I; Multiplet table, O I; Oxygen, first spectrum; *NSRDS-NBS3*, Section 7. **SP305-8.**  
 Spectrum of a square complex matrix; D-stable matrix; Field of values; Gersgorin's theorem; Nonnegative matrix; Perron-Frobenius eigenvalue; 15770. **SP305-8.**  
 Spectrum of Au III; Third spectrum; Corrections to analysis of Au III; Gold; *J.70A* 6-418, 465-466 (1966). **SP305.**  
 Spectrum of neutral iron; Transition probabilities in Fe I; Fe I; Iron; Oscillator strengths; Spectrum; *Monogr.* **108**. **SP305-1.**  
 Spectrum of pyrazine in benzene; Triplet emission; Vibration spectrum; Fluorescence; Phosphorescence; Pyrazine; Singlet emission; 13092. **SP305-5.**  
 Spectrum of reflected sunlight; Ultraviolet and visible wavelengths; Planetary reconnaissance; Spectral reflectance; 10644. **SP305-1.**  
 Spectrum of relaxation times; Ultrasonic relaxation; Alkali-borosilicate glass; Composition fluctuations; Immiscible alkali-borosilicate glass; 11064. **SP305-2.**  
 Spectrum of technetium; Technetium; Atomic spectra; Energy levels, Tc I; *J.72A* No. 6, 559-608 (1968). **SP305-1.**  
 Spectrum of Th II; Th II spectrum; Thorium; Wavelengths of Th II; Energy levels of Th II; g-values of Th II; *J.78A* No. 2, 163-246 (1974). **SP305-6.**  
 Spectrum of Tm III; Doubly ionized thulium; Energy levels of Tm III; Radial energy integrals of Tm III; 11836. **SP305-3.**  
 Spectrum of tungsten; Tungsten; W I; Energy levels, W I; *J.72A* No. 6, 757-760 (1968). **SP305-1.**  
 Spectrum of tungsten; Tungsten; Wavelengths; Atomic spectra; Energy levels; Spectroscopy; *J.72A* No. 6, 609-755 (1968). **SP305-1.**  
 Spectrum shaping; Digital processing of decay rates; Digital sampling; Graphics display terminal; Interactive program; Least-squares analysis; Real-time analyzer; Reverberation room; 15082. **SP305-7.**  
 Spectrum, Si I; Wavelengths, Si I; Atomic energy levels; Atomic spectra Si I; First spectrum; Multiplet table; Silicon; *NSRDS-NBS3*, Section 2. **SP305.**  
 Spectrum stable matrix; Closure; Diagonal matrix; D-stability; Field of values; Hadamard product; Inclusion theorem; Kronecker product; Numerical radius; 14345. **SP305-6.**  
 Spectrum, uranium; Self-reversal; Uranium spectrum; Uranium, spectrum; *J.70A* 4-408, 323-324 (1966). **SP305.**  
 Spectrum, W I; Tungsten, first spectrum; W I; Atomic energy levels in W I; Classified lines of W I; *J.73A* No. 3, 277-279 (1969). **SP305-1.**

Spectrum, Yb II; Ytterbium, second spectrum; Zeeman effect in Yb II; Analysis of Yb II; Atomic energy levels of Yb II; Classified line of Yb II; *J.71A6-470, 396-545 (1967). SP305.*

Specular gloss; Accuracy; Appearance; Error analysis; Gloss; Photometry; Reflectance; Scattering; Spectrophotometry; *TN594-10. SP305-7.*

Specular reflectance; Averaging spheres; Diffuse reflectance; Emissivity; Emittance; Flux averaging devices; Infrared reflectance; Spectral reflectance; Spectral emittance; *TN415 SP305.*

Specular reflectance; Standards; Ultraviolet reflectance; Aluminum; Gold; Infrared reflectance; Interferometer; Mirrors; Reflectance; Reflectance standards; Spectral reflectance; Spectral specular reflectance; *SP260-38. SP305-4.*

Specular reflection; Anomalous Knudsen limit; De Broglie wavelength; Diffuse scattering; Distribution function; Free-molecular flow; Irreversible thermodynamics; *14481. SP305-6.*

Specular reflection; Differential reflection; Epitaxial semiconductor devices; Kramers-Kronig relation; Multiple reflection; Sapphire surfaces; Silicon films; *NBS-GCR-76-61. SP305-8.*

Specular scattering; Thermal transpiration; Anomalous Knudsen limit; Diffuse scattering; Irreversible thermodynamics; *13701. SP305-5.*

Specular walls; Thermal radiation; V-grooves; Reflectance; *J.70C4-238, 275-280 (1966). SP305.*

Speech; Word lengths as block codes; Speech intelligibility as channel capacity; Articulation function of ear; "bit" capacity of ear; Channel capacity of ear; Distinctive features of ear and hearing; Intelligibility vs word lengths as block codes; *12442. SP305-4.*

Speech and speaker recognition; Artificial intelligence; Automatic abstracting; Automatic indexing; Computational linguistics; Computer centers; Documentation; Information storage; Selection and retrieval; Library automation; Optical character recognition; *TN462. SP305-1.*

Speech communication; Audition; Communications; Hearing; Hearing aids; Selection of hearing aids; *CIS4. SP305-3.*

Speech communication; Audition; Communications; Hearing; Hearing aids; Selection of hearing aids; *Monogr. 117. SP305-2.*

Speech communication; Speech intelligibility; Telephony; Measures of speech quality; Perception of speech; Sound reproduction; *10524. SP305-1.*

Speech communication interference; Consumer products; Criteria for safety standards; Federal regulations; Hearing impairment; Hearing survey; Noise emission; *NBSIR 74-606. SP305-7.*

Speech intelligibility; Telephony; Measures of speech quality; Perception of speech; Sound reproduction; Speech communication; *10524. SP305-1.*

Speech intelligibility as channel capacity; Articulation function of ear; "bit" capacity of ear; Channel capacity of ear; Distinctive features of ear and hearing; Intelligibility vs word lengths as block codes; Speech; Word lengths as block codes; *12442. SP305-4.*

Speech interference; Aircraft noise; Annoyance; Noise; Psychoacoustics; *15536. SP305-7.*

Speech quality; Speech scramblers; Survey; Testing; Voice privacy; Intelligibility; LESL; NILECJ; Performance standard; Privacy; Scramblers; *14714. SP305-6.*

Speech recognition; Audio inputs; Automatic pattern recognition; Character recognition; Communication systems; Data transmission; Graphic inputs; Image enhancement; Remote sensing; Source data automation; *Monogr. 113, Volume 1. SP305-2.*

Speech recognition; Standardized fonts; U.S.S.R.; Western Europe; Optical character; Pattern recognition; Recognition; Research; Speaker identification; *11142. SP305-2.*

Speech recognition; Traffic noise; Alarm signals; Hearing; Loudness functions; Masking; Sirens; *16573. SP305-8.*

Speech scramblers; Survey; Testing; Voice privacy; Intelligibility; LESL; NILECJ; Performance standard; Privacy; Scramblers; Speech quality; *14714. SP305-6.*

Speech spectrogram; Ultrasound; Analog-digital conversion; scan; Digitization; Pattern recognition; *SP453, pp. 1-5 (Oct. 1976). SP305-8.*

Speed capability; Tires; Winter tires; Bias ply; Grading; Passenger car tires; Radial tires; *11494. SP305-2.*

Speed capability; Tires; Winter tires; Bias ply; Grading; Passenger car tires; Radial tires; *11496. SP305-2.*

Speed factor measurements; Sticking coefficient; Vacuum techniques; Capture coefficient; Cryocondensation; Cryogenically cooled surfaces; Cryopump; Partial pressure measurements; Pressure calibration with vapor pressures; Pressure anisotropy; *10265. SP305-1.*

Speed of light; C; Laser; Laser frequency measurement; Laser standard saturated absorption stabilization; *15898. SP305-1.*

Speed of light; Frequency metrology; Frequency of laser; Infrared frequency synthesis; Laser frequency stabilization; Methane-stabilized He-Ne laser; *13069. SP305-5.*

Speed of light; Frequency metrology; Frequency of laser; Infrared frequency synthesis; Laser frequency stabilization; Methane-stabilized He-Ne laser; *12958. SP305-4.*

Speed of light; Frequency multiplication; Fundamental constants; Laser stability; Metrology; Second-order Doppler effect; *15980. SP305-8.*

Speed of light; Laser frequency measurements; *15677. SI 7.*

Speed of light; Laser frequency; Laser wavelength; Length standards; *15681. SP305-7.*

Speed of light; Measures for air quality; Metric chart; RF measurements; Runway capacities; Semiconductor materials; *TNB 57, No. 1, 1-24 (1973). SP305-5.*

Speed of light; Methods and limitations; Recent results; Review; *9546. SP305-1.*

Speed of light; Optical frequency; Single-standard time-length measurement system; *13119. SP305-5.*

Speed of light; Standard frequency broadcasts; Statistical time/frequency measurements; Time; Time/frequency dissemination; Time scales; Timing (HF, LF, satellite, VLF); Wavelength standards; WWV; WWVB; WWVH; WWVL; Atomic clocks; *SP350. SP305-3.*

Speed of light; The meter; Laser frequency measurement; Laser strainmeter; Saturated absorption spectroscopy; *15898. SP305-7.*

Speed of light; Unified standard; Cesium beam frequency standard; Dissemination systems; EMF standard; Frequency time metrology; Frequency standards; Infrared frequency synthesis; International System of Units; Josephson effect; Length standards; *12960. SP305-4.*

Speed of light; Waveguide junction; Interferometer; Multiple reflections; *10201. SP305-1.*

Speed of sound; Adiabatic compressibility; Density fluctuations; Equation of state; Isothermal compressibility; *14358. SI 6.*

Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; *T. SP305-5.*

Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Hydrogen; *T. SP305-4.*

Speed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Dielectric



dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; *TN622*. **SP305-4.**

ed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; *NBSIR*. **SP305-3.**

ed of sound; Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; *TN648*. **SP305-6.**

ed of sound; Thermodynamic properties; Elastic constants; lattice dynamics; Lattice parameter changes; Single crystal *e*. *9383*. **SP305.**

ed of sound; Transient pulse-acoustical; Acoustical pulse; longitudinal and shear sound waves; Solids sound speed accuracy; *J75C No. 1, 33-40 (1971)*. **SP305-3.**

ed of sound; Ultrasonic interferometer; Ultrasonics; Phase sensitive detection; *12322*. **SP305-3.**

ed of sound; Ultrasonic interferometer; Acoustical thermometry; Isotherms below 20 °K; Low temperature thermometry; Primary thermometry; *9379*. **SP305.**

ed of sound; Vapor pressure; Virial coefficient; Critically evaluated data; Critical point; Enthalpy; Entropy; Equation of state; Helium; Internal energy; Joule-Thomson coefficient; *lambda* data; *J. Phys. Chem. Ref. Data* 2, No. 4, 923-1042 (1973). **SP305-6.**

ed of sound; Velocity of sound; Absorption; Acoustics; Attenuation; Liquids; Sound; *13182*. **SP305-5.**

ed of sound; X-ray scattering; Critical region; Dielectric constant; Equation of state; Homogeneity; Light scattering; power laws; Refractive index; Scaling; Schlieren method; specific heat; *14932*. **SP305-7.**

ed of sound in gases; Acoustic thermometry; Equation of state; *lambda* data; Gas properties; Helium; Second virial coefficient; *12061*. **SP305-3.**

ed of sound" isotherms; Viscosity; Acoustical thermometry; Calibrator; Germanium thermometers; Heat conduction; *BS P2-20 (1965)* scale; *TN765*. **SP305-5.**

ed-of-sound; Compressibility; Compressibility factor; Gases; radial distribution function; *10065*. **SP305-1.**

eds of sound; Vapor pressure; Densities; Enthalpies; Entropies; Equation of state; Ethane; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; Specific heats; *TN684*. **SP305-8.**

eds of sound; Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; PVT data; specific heats; *NBSIR* 73-342. **SP305-6.**

eds of sound; Vapor pressures; Densities; Enthalpies, entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; Specific heats; *NBSIR* 74-398. **SP305-7.**

ere; Geometry of numbers; Lattice points; *10510*. **SP305-1.**

ere; Stability; Crystal growth; Diffusion; Heat flow; Interfacial; Kinetics; Morphology; *9439*. **SP305.**

ere; Sulfur coatings; Coatings; Infrared integrating sphere coatings; Integrating spheres; *9157*. **SP305.**

ere; Transient heat conduction; Cylinder; Multilayer structures; Response factors; *11033*. **SP305-2.**

Sphere; Vertical cylinder; Cryogenic; Heat transfer; Hemisphere; Horizontal cylinder; Liquid deuterium, liquid hydrogen, liquid nitrogen; Natural convection; *NBSIR* 75-807. **SP305-7.**

Sphere; Vertical cylinder; Cryogenics; Heat transfer; Hemisphere; Horizontal cylinder; Liquid deuterium, liquid hydrogen, liquid nitrogen; Natural convection; *16207*. **SP305-8.**

Sphere coatings; Averaging sphere; Efficiency; Radiometry; Spectrophotometry; *15896*. **SP305-8.**

Spherical; Symmetry; Antennas; Arrays; Coordinate transformations; Data processing; Group representations; Measurements; Near field; Non-planar; Patterns; Scanning; *NBSIR* 75-809. **SP305-7.**

Spherical aberration; Diamagnetic corrective element; Electron lens; *9931*. **SP305-1.**

Spherical aberration; Third-order theory; Unit magnification; Cassegrain; Reflecting objective; Spectrometers; *14802*. **SP305-7.**

Spherical alloy; Spherical-alloy amalgam; Adaptability; Amalgams; Dental amalgam; Dentistry; Mercury-silver alloys; Packing pressure; Particle size; Silver-tin alloys; *9448*. **SP305.**

Spherical Bessel functions; Spherical harmonics; Angular momentum algebra; Bessel functions; Integrals of Bessel functions; Invariant triple products; *12976*. **SP305-4.**

Spherical deflector; Cylindrical mirror; Electron energy analyzer; Electron optics; *10356*. **SP305-1.**

Spherical deflectors; Anomalous energy spreads; Electron beams; Electron optical limitations; High-resolution electron monochromator; Space charge; *9871*. **SP305-1.**

Spherical electrodes;  $\alpha$ ;  $^{245}\text{Cm}$ ; Fast ionization chamber; Fission/alpha; *SP425*, pp. 81-82. **SP305-7.**

Spherical geometry; Early-type stars; Model atmospheres; Radiative transfer; Spectral line formation; *13688*. **SP305-5.**

Spherical geometry; Stellar atmospheres; Polarized radiation; Radiative transfer; Rayleigh scattering; *12640*. **SP305-4.**

Spherical geometry; Stellar atmospheres; Moving atmospheres; Radiative transfer; Spectral line formation; *SP332*, pp. 87-118. **SP305-2.**

Spherical harmonics; Angular momentum algebra; Bessel functions; Integrals of Bessel functions; Invariant triple products; Spherical Bessel functions; *12976*. **SP305-4.**

Spherical harmonics; Symmetrized techniques; Electronic density of states; De Haas van Alphen effect; Fermi surface; Fermi velocity; Fourier series; *SP323*, pp. 785-790. **SP305-4.**

Spherical harmonics; Volume of ball; Asphericity correction; Density; *J.78A No. 1, 41-48 (1974)*. **SP305-6.**

Spherical interferometer; Spherical volume; Volume standard; Density standard; Hydrostatic weighing; Perfect sphere; Silicon; *J.78A No. 1, 13-40 (1974)*. **SP305-6.**

Spherical molecules; Diffusion; Light scattering; Neutron scattering; Plastic crystal; Rotational; *11953*. **SP305-3.**

Spherical nuclei; Theoretical physics; Nuclear physics; Photoneuclear absorption cross sections; *9214*. **SP305.**

Spherical potential; Hypergeometric series; London interaction; Pair potential function; Realistic potential; Second virial coefficient; *J.73A No. 4, 421-423 (1969)*. **SP305-1.**

Spherical radiative transfer; Eddington factor; Model atmospheres; *12241*. **SP305-3.**

Spherical scan; Antenna measurements; Data reduction; Near field; Probe correction; Probe design; *14766*. **SP305-7.**

Spherical shapes; Vapor; Cylindrical and spherical shapes; Solution or vapor; *9643*. **SP305-1.**

Spherical shell molecules; Vitreous state; Arsenious oxide; Arsenolite; Claudette; Crystal transition; Cubic crystal; Glass; Heat capacity; Monoclinic crystal; Low temperature; Planar molecular structure; *12311*. **SP305-3.**

Spherical tanks; Structural design; Dynamic analysis; Earthquake; Seismic design; Seismic response; *SP444*, pp. V-50—V-62 (Apr. 1976). **SP305-8.**

Spherical volume; Volume standard; Density standard; Hydrostatic weighing; Perfect sphere; Silicon; Spintronics interferometer; *J78A No. 1, 13-40 (1974). SP305-6.*

Spherical-alloy amalgam; Adaptability; Amalgams; Dental amalgam; Dentistry; Mercury-silver alloys; Packing pressure; Particle size; Silver-tin alloys; Spherical alloy; *9448. SP305.*

Spherically symmetric gas clouds; Stellar atmospheres; Radiative energy loss; Radiative transfer; Spectral line profiles; *14419. SP305-6.*

Spherical-top molecules; Angular relaxation;  $\text{ClO}_2\text{F}_2$ ; Magnetic resonance; Relaxation times; Rotational diffusion; *12195. SP305-3.*

Spheroidal functions; Mathieu functions; *J74B No. 3, 187-209 (1970). SP305-2.*

Spheroidal method; Astronomy; Dynamical astronomy; Oblate planet; Satellite astronomy; *10250. SP305-1.*

Spherulite; Axialite; Chain folds; Crystallization rate; Molecular weight; Nucleation theory; Polyethylene; Regime I; Regime II; *J79A No. 6, 671-699 (1975). SP305-7.*

Spherulitic polypropylene; Crazing; Cryogenic temperatures; Crystalline polymers; Environmental effects on crazing; Fractional free volume; Glass transition temperature; Smectic polypropylene; *15772. SP305-8.*

Spingomyelin; Thermal studies; Atherosclerosis; Cholesterol and its fatty acid esters; Differential scanning calorimetry; Lecithin; Lipid-water systems; Phospholipids; *SP338, pp. 99-117. SP305-2.*

Spider bonding; Ultrasonic bonding; Wire bonding; Capacitor microphone; Flip-chip; Magnetic pickup; Microelectronic interconnections; *TN573. SP305-3.*

"Spillover" effect; Transition metal carbides; Transition metal oxides; Tungsten bronze; Tungsten carbide; Electrocatalysis; Heteropolyanions; Phosphotungstate complex ions; *SP455, pp. 167-174 (Nov. 1976). SP305-8.*

Spin; 65-335 K; Cerous magnesium nitrate hydrate; Lattice; Proton; Relaxation; *14860. SP305-7.*

Spin algebras;  $\text{SU}(6)$ ; W spin; Hadrons; Little group; *9621. SP305-1.*

Spin assignments; Thermal cross sections; Bound level parameters; *SP425, pp. 357-359. SP305-7.*

Spin axis gas bearings; Sputtered coatings; Surface characterization; Wear life; Antimony trioxide; Friction; Molybdenum disulfide; *SP452, pp. 177-186 (Sept. 1976). SP305-8.*

Spin cluster; Spin-Hamiltonian; Antiferromagnetism; Cerous magnesium nitrate; Dipole-dipole coupling; Ferromagnetism; Ground state; Permutation group; Quantum mechanics; *15524. SP305-7.*

Spin conservation; Oxygen fluorides; Quantum chemistry; *12815. SP305-4.*

Spin conservation rules; Vacuum ultraviolet; Bond energy; Fluorescence; Photodissociation; Predissociation; *14143. SP305-6.*

Spin coupling; Boron; Computer-calculated spectra; Diborane; Magnetic non-equivalence; Proton magnetic resonance; *10935. SP305-2.*

Spin coupling constants; Chemical shifts; Fluorine; Fluorosilanes; Nuclear magnetic resonance; Silicon; *9810. SP305-1.*

Spin coupling constants; Chemical shift; Double resonance; Fluorine; Fluorosilanes; Nuclear magnetic resonance; Octafluorotrisilane; Silicon; *10278. SP305-1.*

Spin coupling constants; Double resonance; Fluorine; Fluorosilanes; Hydrogen; Nuclear magnetic resonance; Phosphorus; Relative signs; Silicon; *10373. SP305-1.*

Spin coupling constants; Fluorine; Fluorosilanes; Nuclear magnetic resonance;  $\text{SiF}_4$ ; Silicon; Solvent; *9648. SP305-1.*

Spin echo technique; Temperature dependence; Antiferromagnetism; Magnon-Raman process; Nuclear magnetic resonance; Relaxation time; *9918. SP305-1.*

Spin echo; KI; NiAl; Nuclear magnetic resonance; Paramagnetic resonance; Quadrupolar interactions; *11475. SP305-2.*

Spin exchange; Adiabatic collisions; Charge transfer; Nonresonant; Potential curves; Resonant; *15875. SP305-8.*

Spin exchange; Atomic hydrogen beam; Atomic hydrogen generation; Dispersion; Frequency stability; Frequency standard; Hydrogen atom detection; Hydrogen flux calibration; Hydrogen maser; Relaxation measurements; *12982. SP305-4.*

Spin exchange; Frequency pulling; Hydrogen beam laser; Hydrogen maser; Maser tuning; *TN387. SP305-2.*

Spin exchange cross sections; Spin relaxation time; Electron paramagnetic resonance; Flow system kinetics; Hydrogen atoms; Nitrogen atoms; *9289. SP305.*

Spin exchange cross sections; Spin relaxation time; Electron paramagnetic resonance; Flow system kinetics; Nitrogen atoms; *10516. SP305-1.*

Spin flip laser; Tunable IR laser; Air quality measurements; Improved resolution spectroscopy; Infrared frequency measurements; Infrared spectrometer; *TN670. SP305-8.*

Spin flip Raman laser; Frequency measurements on tunable lasers; IFS with a tunable laser; Infrared frequency synthesis; SFRL frequency measurement; *TN680. SP305-8.*

Spin forbidden transitions; Transition calculations; Asymmetric rotors; Matrix elements; Rotational line intensities; Symmetric triplet transitions; *12313. SP305-3.*

Spin Hamiltonian; Energy levels of  $\text{Gd}^{3+}$  in  $\text{Al}_2\text{O}_3$ ; Quadrupole transitions; Transition probabilities; Ultrasonic paramagnetic resonance; Ultrasonic transition probabilities; *J75A No. 493-523 (1971). SP305-3.*

Spin hamiltonian; Transition probabilities; Ultrasonic (paramagnetic) resonance; Ultrasonic transition probabilities; Wave functions of  $\text{Fe}^{3+}$ ; Energy levels of  $\text{Fe}^{3+}$  in  $\text{Al}_2\text{O}_3$ ; *J73A No. 2, 241-268 (1969). SP305-1.*

Spin lattice; Temperature dependent; Diffusion constant; Dipole relaxation; Molecular; *13167. SP305-5.*

Spin lattice relaxation; Anisotropic Knight shift; Cd; Isotropic Knight shift; Knight shift; Korringa process; Nuclear magnetic resonance; *14746. SP305-7.*

Spin lattice relaxation; Knight shift; Magnetism; Nickel; Pulsed NMR; *16357. SP305-8.*

Spin lattice relaxation time; Antiferromagnetism; Low temperature; Magnon Raman process; *9982. SP305-1.*

Spin lattice relaxation time; Lithium borohydride; Nuclear magnetic relaxation; Phase transition; Potassium borohydride; Sodium borohydride; *11167. SP305-2.*

Spin polarization; Cross sections; Elastic scattering; *1372. SP305-5.*

Spin polarization; Cross sections; Elastic scattering; *1253. SP305-4.*

Spin polarization; Strongly correlated metals; Surface density of states; Theory; Ferromagnetic transition metals; Field emission; *15090. SP305-7.*

Spin relaxation time; Electron paramagnetic resonance; Flow system kinetics; Hydrogen atoms; Nitrogen atoms; Spin exchange cross sections; *9289. SP305.*

Spin relaxation time; Electron paramagnetic resonance; Flow system kinetics; Nitrogen atoms; Spin exchange cross sections; *10516. SP305-1.*

Spin relaxation; Statistical methods for dislocations; Spectral broadening; Optical zero phonon line; *SP317, pp. 1169-1175. SP305-3.*

Spin saturation; Electron static susceptibility; Lattice heat capacity; Neodymium ethylsulfate; Relaxation time; *9291. SP305.*

Spin splitting; Anharmonic constant; Coriolis resonance; Frequency resolution; Infrared spectrum; Nitrogen dioxide; *1511. SP305-7.*

Spin splitting; Zeeman spectrum; Asymmetric rotor levels; Laser magnetic resonance; Rotational constants; Spectral assignments; *15067. SP305-7.*

splitting;  $2\nu_2$ ; Coriolis resonance; High resolution; Infrared; O; 14769. **SP305-7.**

states; W spin; Arbitrary spin state; Basic spin; Linear combinations; Ordinary spin states; 9768. **SP305-1.**

susceptibility; Be; Cd; Density of states; Divalent metals; exchange enhancement; Mg; *SP323*, pp. 659-662. **SP305-4.**

system; Triangular lattice; Conditional probability; Ising spin; Monte Carlo method; 15865. **SP305-8.**

uncoupling; Vibration-rotation interaction; Vibrational transitions; Einstein coefficients; Line strengths; Meinel bands; Molecular spectra; OH; Radiative lifetimes; 14767. **SP305-7.**

wave; Dipolar narrowing; Ferrites; Ferromagnetic resonance relaxation; Polycrystals; Porosity; 10020. **SP305-1.**

wave; Ferromagnetic resonance; Polycrystalline spin wave; 1019. **SP305-1.**

waves; Anisotropy; Electric field gradient;  $\text{Fe}_2\text{B}$ ;  $\text{Fe}_2\text{Zr}$ ; ferromagnetism; Hyperfine field; Nuclear magnetic resonance; Quadrupole interactions; 11181. **SP305-2.**

waves; Tensor permeability; YIG; External tensor permeability; Ferrimagnetic resonance; Ferrites; Garnet; Low magnetic field effects; Permeability; 9395. **SP305.**

coupling; Solvent effects; Chemical shift; Coupling constant; Double resonance; Fluorine; Fluorosilanes; Nuclear magnetic resonance; Silicon; 10374. **SP305-1.**

diffusion; Susceptibility; Ultrasonic attenuation; Frequency shift; Heisenberg paramagnet; Specific heat; 12265. **SP305-3.**

Amorphous; Diffraction; Fe-Cr; Lattice parameter; 1 N  $\text{SO}_4$ ; Oxide; Passive; 13004. **SP305-4.**

Electrocatalysis; Nickel-cobalt oxide; Nickel oxide; oxide electrodes; Oxygen electrode reaction; Ruthenium oxide/titanium dioxide; *SP455*, pp. 289-296 (Nov. 1976). **SP305-8.**

Strength; Twinning; Chemical polishing; Rutile; Sapphire; *SP348*, pp. 267-269. **SP305-4.**

Strength; Surface characterization; Twinning; Flame polishing; Glass; Rutile; Sapphire; *SP348*, pp. 237-244. **SP305-4.**

structure; Corundum structure; Order-disorder; Raman spectra; Rocksalt structure; Rutile structure; *SP364*, pp. 113-126. **SP305-4.**

structure; Durability; Electrical conductivity; High temperature; MHD-power generation; 15943. **SP305-8.**

Teflon bonded electrodes; Nickel cobalt oxides; Oxygen evolution; Pourbaix diagram; Semiconducting oxides; *SP455*, pp. 281-288 (Nov. 1976). **SP305-8.**

Wurtzite-type; Chalcopyrite-type; Silver indium sulfide; 13251. **SP305-5.**

exchange; Electron; Optical pumping; Sodium; 9275. **SP305.**

exchange; Spin-relaxation; Electron spin resonance; hydrogen atoms; *J.76A No. 2*, 103-113 (1972). **SP305-4.**

Antiferromagnetic transition; Antiferromagnetism; dipolar interactions;  $\text{ErPO}_4$ ; Magnetic phase diagram; Néel temperature; 16436. **SP305-8.**

forbidden bands; Crystal spectrum; k(simidazole)nickel(II)nitrate; Octahedral nickel(II); *J.72A No. 6*, 765-768 (1968). **SP305-1.**

Hamiltonian; Antiferromagnetism; Cerous magnesium nitrate; Dipole-dipole coupling; Ferromagnetism; Ground state; Permutation group; Quantum mechanics; Spin cluster; 5524. **SP305-7.**

lattice; Trichlorides;  $\text{Ce}^{3+}$ ,  $\text{Nd}^{3+}$ ,  $\text{Sm}^{3+}$ ,  $\text{Ho}^{3+}$ , and  $\text{Er}^{3+}$ ; electron-lattice interaction;  $\text{LaCl}_3$ ; Pulsed microwave; Rare earth; Relaxation; 9924. **SP305-1.**

lattice relaxation; Activation energy; Ammonium iodide; hindered rotation; Nuclear magnetic relaxation; Phosphonim halides; Proton; Proton second moment; 11168. **SP305-**

lattice relaxation; Alkanes; Carbon-13; Magnetic resonance; Molecular motion; Polyethylene; Rotational potentials; 14077. **SP305-6.**

Spin-lattice relaxation; Chromium alum; 11803. **SP305-3.**

Spin-lattice relaxation; Gadolinium hexa-antipyrène iodide; 10704. **SP305-1.**

Spin-lattice relaxation; Phonon bottleneck; Phonon-boundary scattering; Spin-phonon interactions; *Mono. 102*. **SP305.**

Spin-lattice relaxation; Rare-earth; 9236. **SP305.**

Spin-lattice relaxation; Spin-phonon interactions; Inelastic phonon-boundary scattering; Phonon avalanche; Phonon bottleneck; 10236. **SP305-1.**

Spin-lattice relaxation; Spin-spin relaxation; Tumor; In vivo; Melanoma; Nuclear magnetic resonance; 13843. **SP305-6.**

Spin-lattice relaxation; Spin-spin relaxation; Cancer; Mice; NMR; *J. Res. 80A No. 3*, 439-450 (1976). **SP305-8.**

Spin-lattice relaxation time; Antiferromagnetism; Magnon energy gap; Magnons; 10740. **SP305-1.**

Spinning; Stirred solution; Crystallization; Cylindrite; Drawing of swollen polymer solid; Epitaxial overgrowth; Extrusion; Hard elastomer; Nucleation; Oriented melt; Rheological unites; Row nucleus; Shishkebab; Sonicated solution; 16274. **SP305-8.**

Spinodal; Structural interpretation of immiscibility; Super-duty silica brick; Glass chromatography; Immiscibility and courses of crystallization; Immiscibility and practical applications; Immiscibility and thermodynamics; Immiscibility in oxides; 11902. **SP305-3.**

Spinodal decomposition; Age hardening; Copper-titanium; Dia; Metastable solvus; Microstructural sequence method; Nucleation; Ordering; Precipitation; 15053. **SP305-7.**

Spinodal decomposition; Composition modulations; Contrast mechanism; Electron diffraction; Electron microscopy; Lattice images; Modulation images; Satellites; 15063. **SP305-7.**

Spinodal decomposition; Superlattice reflections; Transmission electron microscopy;  $8^+$ ;  $\text{Li}_2$ ; Metastable phase; Ordering reaction; Satellites; 15840. **SP305-8.**

Spinodal decomposition theory; Connectivity of microphases; Fluctuation theory; Glass; Intersecting growth theory; Microheterogeneous glass; 10970. **SP305-2.**

Spin-orbit coupling; Coupling-strength; 14666. **SP305-6.**

Spin-orbit coupling; Transition probability; Curve crossing;  $\text{O}(\text{D})$ ;  $\text{O}(\text{S})$ ; Quenching rate; 15566. **SP305-7.**

Spin-orbit coupling; Transition probability; Comet; Electric-dipole transition; Excited states; NH; 16502. **SP305-8.**

Spin-orbit coupling; Tunable dye laser; Ion cyclotron resonance; Mass spectrometry; Negative ions; Photodetachment; 14771. **SP305-7.**

Spin-orbit coupling constant; Water vapor laser; g factor; Laser magnetic resonance; NO; 12895. **SP305-4.**

Spin-orbit interaction; Atomic spectra; Atomic theory; *J.75A No. 2*, 109-111 (1971). **SP305-3.**

Spin-orbit interaction; Checking parameters;  $(d+s)^*p$ ; Electrostatic interaction; Relative phases; *J.76B Nos. 1 and 2*, 61-80 (1972). **SP305-4.**

Spin-orbit matrix elements; Ab initio calculation; Level shifts; Line broadening; Molecular oxygen; Predissociation; 15055. **SP305-7.**

Spin-orbit mixing; Molecular oxygen; Predissociation; Schumann-Runge bands; 16596. **SP305-8.**

Spin-orbit split bands; Tungsten; Electrons; Single crystal faces of tungsten; 12049. **SP305-3.**

Spin-orbit splittings; Critical points; Diamond semiconductors; Electroreflectance; Gallium antimonide (GaSb); Gallium arsenide (GaAs); Germanium; Semiconductors, diamond; Semiconductors, zinc blende; *SP323*, pp. 411-415. **SP305-4.**

Spin-phonon interactions; Inelastic phonon-boundary scattering; Phonon avalanche; Phonon bottleneck; Spin-lattice relaxation; 10236. **SP305-1.**

- Spin-phonon interactions; Spin-lattice relaxation; Phonon bottleneck; Phonon-boundary scattering; *Mono.* 102. **SP305.**
- Spin-polarization; Electron; Experiment; LEED; Multi-photon; Photoionization; Review; Scattering; 15900. **SP305-8.**
- Spin-relaxation; Electron spin resonance; Hydrogen atoms; Spin-exchange; *J.76A No. 2, 103-113 (1972).* **SP305-4.**
- Spin-rotation; Angular momentum relaxation; Collision numbers; Liquids; NMR relaxation; Rotational diffusion; 14113. **SP305-6.**
- Spin-rotation;  $T_1$ ;  $T_2$ ;  $^{13}\text{C}$  relaxation; Chemical shift anisotropy; Dipole-dipole; Scalar relaxation; 12592. **SP305-4.**
- Spin-rotation constants; Infrared spectrum; Nitrogen dioxide,  $\nu_3$  band; Nitrogen dioxide,  $\nu_3 + \nu_2 - \nu_2$  band; Rotational constants; Spectroscopic constants; 15753. **SP305-8.**
- Spin-rotation splittings; Band center; Intensities; Laser magnetic resonance; Nitrogen dioxide; Rotational assignment; 15788. **SP305-8.**
- Spins of  $^{235}\text{U}$  resonances; *SP425*, pp. 580-583. **SP305-7.**
- Spin-spin coupling; Copper monochloroacetate 2.5 hydrate; Dichlorobis(pyridine-N-oxide)copper(II); Dichloromonoaquo-(pyridine-N-oxide)copper(II); Exchange interactions;  $J$  values; Magnetic susceptibility; 10997. **SP305-2.**
- Spin-spin coupling constant; Boron-11;  $\text{H}^{11}\text{B}(\text{OCD}_3)_2$ ; Hydride; Hydrogen; Liquid; Proton; Quadrupole coupling constant; 9588. **SP305-1.**
- Spin-spin coupling constants; Variable temperature studies; Conformational analysis; Iterative analysis; Long-range coupling constants; N.m.r. spectroscopy; Nuclear Overhauser effects; 12777. **SP305-4.**
- Spin-spin relaxation; Cancer; Mice; NMR; Spin-lattice relaxation; *J. Res.* 80A No. 3, 439-450 (1976). **SP305-8.**
- Spin-spin relaxation; Tumor; In vivo; Melanoma; Nuclear magnetic resonance; Spin-lattice relaxation; 13843. **SP305-6.**
- Spin-splittings; Vibration relaxation; Air pollutant; Fundamental vibrational band; High-resolution; Molecular constants; 14127. **SP305-6.**
- Spin-tickling; Transient nutations; 6-deoxy- $\alpha$ -D-glucopyranose derivative; General Overhauser effect; Internuclear double resonance; Long-range coupling; Magnetic equivalence factoring; 12693. **SP305-4.**
- Spin-tickling; Transient nutations; 6-Deoxy- $\alpha$ -D-glucopyranose derivative; General Overhauser effect; Internuclear double resonance; Long-range coupling; Magnetic equivalence factoring; 12272. **SP305-3.**
- Spin-wave theory; Thulium; Anti-ferromagnet; Anti-phase domain; Augmented plane wave method (APW); Curie temperature; Electronic density of states; Enhancement factors; Erbium; Erbium-thulium alloys; Ferro-magnetic spiral structure; *SP323*, pp. 571-577. **SP305-4.**
- Spiraling; Electron gun; Measurement of spiraling; 14255. **SP305-6.**
- spiro-fused structures; 2-hexuloses; 2-pentuloses; Acid catalysis; Hydrolysis; Isopropylidene acetals; 11159. **SP305-2.**
- Spiroid (Reg. T.M.); Attenuator; Microwave; Rotary vane; 12901. **SP305-4.**
- Spiropentane; Cycloheptane; Cyclohexane; Cyclopentane; Oxygen; Rate constants; *J.76A No. 2, 77-80 (1972).* **SP305-4.**
- Splat cooling; Standard preparation; Al-Mg; Au-Si; Electron probe standards; Quantitative microanalysis; 10350. **SP305-1.**
- Spleen; Splenomegaly; A-scan analysis; Digital; Grey-scale ultrasound; *SP453*, pp. 71-78 (Oct. 1976). **SP305-8.**
- Splenomegaly; A-scan analysis; Digital; Grey-scale ultrasound; Spleen; *SP453*, pp. 71-78 (Oct. 1976). **SP305-8.**
- Splices; Terminals; Aluminum wire; *NBSIR 76-1039*. **SP305-8.**
- Spine theory; Differential equation; Fast Fourier transform; Josephson junction; Nonlinear integral-differential equation; *TN627*. **SP305-5.**
- Splinters; Combinatorial systems with axiom; Degrees of unavailability; General decision problems; Markov algorithm; Many-one reducibility; Recursive functions; R.e. many-one degrees; R.e. one-one degrees; Semi-Thue systems; 149. **SP305-7.**
- Split core; Cold neutron source; High flux; Irradiation; Neutron diffraction; Research reactor; 12351. **SP305-3.**
- Split extension; Factor set; Group extension; Level; Modulo group; Parabolic class number; Quotient surface; 93. **SP305.**
- Splitting failures; Thermal shock; Built-up roof membrane; novation; Preventive measures; 9207. **SP305.**
- Splitting tensile strength; Compressive strength; Concrete Maturity; Mechanical properties; Nondestructive evaluation; Pull-out strength; *TN932*. **SP305-8.**
- Sponsorship; Structural engineering; Earthquake engineering; Grant; RANN; *SP444*, pp. V-66—V-79 (Apr. 1976). **SP305-8.**
- Sponsorship; Wind engineering; Research programs; *SP444*, pp. V-80—V-82 (Apr. 1976). **SP305-8.**
- Spontaneous deposition; Trace analysis; Glasses; Neutron activation analysis; Radiochemical separations; 12931. **SP305-4.**
- Spontaneous fission; Track recorders; Coincidence counter; Decay constant; Plutonium-238; Safeguards data; *SP425*, pp. 587-590. **SP305-7.**
- Spontaneous magnetization; Heat capacity; Linear chain models; Low temperature; Magnetic properties; Magnetic susceptibility; Nuclear quadrupole resonance; Rare-earth trihalides; 11271. **SP305-2.**
- Spontaneous polarization; Barium titanate; Ceramics; Ferroelectricity; Phase transitions; Pyroelectricity; 1155. **SP305-2.**
- Spontaneous Raman scattering in free atoms; Atomic beam; Multiphoton ionization; Sodium; 16572. **SP305-8.**
- Sporadic-E; Auroral absorption; Auroral radar; Ionospheric disturbances; Polar cap absorption; Solar protons; 919. **SP305.**
- Sporadic-E; Auroral types of sporadic E; Equatorial; Ionization; 10234. **SP305-1.**
- Spot size dependence; Time dependence; Frequency dependence; Laser damage; *SP462*, pp. 338-345 (Dec. 1976). **SP305-8.**
- Spot tests; Street drugs; Centroid color charts; Color spot test; Drugs of abuse; Experimental detection limits; Field test; Narcotic identification; Narcotics; 14697. **SP305-6.**
- Spot-size dependence; Surface defects; Rutile crystal damage; Yttrium orthovanadate crystal damage; Damage morphology; Polishing compounds; *SP414*, pp. 193-199. **SP305-6.**
- Spotwelded joints; Weldbonded joints; Bonded joints; Computer simulation; Cyclic loading; Debond analysis; Finite element analysis; Joints; Nonlinear analysis; Single-lap joint bending; 16147. **SP305-8.**
- Spotwelded joints; Weldbonded joints; Adhesive-bonded joints; Bonded joints; Double-lap joint analysis; Finite element analysis; Joining; Joints; Single-lap joint analysis; Single-lap joint bending; *NBSIR 75-957*. **SP305-8.**
- Spray; Atomizer; Nebulizer; Pneumatic aspirator; Sample introduction; Solvent removal; 11173. **SP305-2.**
- Spray distribution; Water distribution; Water spray; Automatic sprinkler; Corridor sprinkler systems; Discharge pattern; *NBSIR 75-920*. **SP305-8.**
- Spray nozzles; Spray patterns; Test methods; Water distribution; Water spray; Automatic sprinklers; Bibliography; Droplet size; Fire suppression; *NBS-GCR-76-72*. **SP305-8.**
- Spray patterns; Test methods; Water distribution; Water spray; Automatic sprinklers; Bibliography; Droplet size; Fire suppression; Spray nozzles; *NBS-GCR-76-72*. **SP305-8.**



Analysis; Aerosol instrumentation; Aerosol measurements; Aerosol review; Aerosols; Aerosol scattering; Aerosol sizing; Droplet imaging; Droplet sizing; Electrical mobility; Impaction; Momentum methods; Particle imaging; Particle measurements; Particle scattering; *SP412*, pp. 1-12. **SP305-6.**

Rad F; Frequency measuring technique; High frequency; Ionosonde technique; Propagation studies; Radio waves; *10241*. **SP305-11.**

Rad-F; Charged particles; Extra-terrestrial origins; Higher solar activity; Hydromagnetic waves; Solar activity; *10239*. **SP305-1.**

Rad-F; Topside; Absorption; High latitude; Ionosphere; Ionospheric scattering; Irregularity; Satellite; Scintillation; *16641*. **SP305-8.**

Adsorption pressure; Adsorption; Adsorption azeotropes; Ideal adsorbed solution; Multicomponent adsorption equilibria; *1642*. **SP305-1.**

Leakage prevention; Barrier films; Bearings; Fluorinated polymers; Lubricant migration; Lubricants; *SP452*, pp. 170-176 (Sept. 1976). **SP305-8.**

Leakage resistance; Accuracy; Bevelled structures; Correction application; Correction factors; Edge effect; Profiles; Relativity profiling; Small spacing; *SP400-10*, pp. 51-61. **SP305-6.**

Leakage resistance; Arsenic; Boron; Design; Device modeling; Dopant distribution; Phosphorus; Process control; Process modeling; *SP400-10*, pp. 235-248. **SP305-6.**

Leakage resistance; Automated testing; Epitaxial silicon; Impurity concentration; Resistivity; Semiconductor materials; Silicon; *SP400-10*, pp. 95-98. **SP305-6.**

Leakage resistance; Automation; Beveling; Comparison; Four-point probe; Incremental MOS capacitance-voltage; Incremental sheet resistance; Infrared spectrometer; Ion microprobe; Junction capacitance-voltage; Lap and stain; Mercury probe; *SP400-10*, pp. 155-168. **SP305-6.**

Leakage resistance; Bevel angle measurement; Correction factor; Epitaxial layer; Impurity concentration; Ion-implanted layer; Neutron activation; Probe loading; Probe spacing; *SP400-10*, pp. 169-178. **SP305-6.**

Leakage resistance; Boundary correction; Calculations; Electrostatic analogue; Resistivity; Semiconductor; *SP400-10*, pp. 5-50. **SP305-6.**

Leakage resistance; Computer modeling; Correction factors; Dopant profiles; Multilayer spreading resistance model; Resistivity; Semiconductor dopant concentration; *SP400-10*, pp. 5-94. **SP305-6.**

Leakage resistance; Contact resistance; Correction formulae; Sheet resistance; Silicon; *SP400-10*, pp. 27-44. **SP305-6.**

Leakage resistance; Correction factors; Diffused layers; *SP400-10*, pp. 223-234. **SP305-6.**

Leakage resistance; Crystal growth; Czochralski; Fourier transform; Microsegregation; Resistivity characterization; Silicon; *SP400-10*, pp. 191-199. **SP305-6.**

Leakage resistance; Dopant concentration; Dopant profiles; Metal-semiconductor contacts; Resistivity; Semiconductor surface preparation; Silicon; *SP400-10*. **SP305-6.**

Leakage resistance; Steel probe; Topography; Bevel; Interferometer; Jig; Microcontacts; Silicon; *SP400-10*, pp. 99-108. **SP305-6.**

Leakage resistance; Stress; Zero bias resistance; Correction factor; Crystallographic orientations; Effective contact radius; Interfaces; Metal-semiconductor contacts; Multilayered structure; Piezoresistivity; Resistivity; *SP400-10*, pp. 17-26. **SP305-6.**

Leakage resistance; Striations; Absolute measurements; Aluminum-silicon contact; Four-point probe measurements; Local resolution; *n*-type silicon; Resistivity inhomogeneities; *SP400-10*, pp. 109-122. **SP305-6.**

Spreading resistance; Surface effects; Automated resistivity measurements; Calibration; Germanium characterization; Sample preparation; Silicon characterization; *SP400-10*, pp. 145-154. **SP305-6.**

Spreading resistance; Surface orientation; Contact radius; Correction factors; Silicon; *SP400-10*, pp. 137-144. **SP305-6.**

Spreading resistance; Test pattern; Epilayer thickness; Silicon; *SP400-10*, pp. 217-221. **SP305-6.**

Spreading resistance; Test patterns; Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; Wire bonds; Contact resistance; Die attachment; Dopant profiles; Electrical properties; Electronics; Gold-doped silicon; Hermeticity; Metallization; *SP400-1*. **SP305-6.**

Spreading resistance; Test patterns; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Thick film copper; Voltage contrast mode; Wire bonds; X-ray photoelectron spectroscopy; Boron redistribution; Collector resistor; Doping profiles; *SP400-4*. **SP305-6.**

Spreading resistance; Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Ultrasonic bonding; Voltage contrast mode; Wire bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; *SP400-8*. **SP305-7.**

Spreading resistance; Test patterns; Thermal resistance; Thermal response; Transistors; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; *SP400-19*. **SP305-8.**

Spreading resistance; Test patterns; Thermally stimulated current; Thermal resistance; Ultrasonic wire bonding; Voltage contrast mode; X-ray photoelectron spectroscopy; Acoustic emission; Auger electron spectroscopy; Beam-lead bonds; Bias-temperature stress test; *SP400-25*. **SP305-8.**

Spreading resistance; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Beam leads; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Generation centers; *TN806*. **SP305-5.**

Spreading resistance; Thin film correction factors; Resistivity profiles; *SP400-10*, pp. 63-74. **SP305-6.**

Spreading resistance; Thin silicon layers; Diffusion; Epitaxy; Ion implantation; Microwave devices; Profiling; *SP400-10*, pp. 209-216. **SP305-6.**

Spreading resistance; Voltage breakdown; Bibliography; Semiconductor material inhomogeneities; Measurement methods; Photovoltaic; Electron voltaic; Photoconductivity; Point potential probe; *TN445*. **SP305-1.**

Spreading resistance measurement; Surface damage; Beveling; Diamond grinding; Laser bevel angle measurement; Layer thickness determination; Materials; Resistivity measurement; Silicon doping profiles; *SP400-10*, pp. 123-136. **SP305-6.**

Spreading resistance measurements; Swirls; Oxygen in silicon; Silicon single crystals; *SP400-10*, pp. 185-190. **SP305-6.**

Spreading resistance measurements; Surface effects; Surface preparation; Bevel polishing; *p*-type silicon; Resistivity depth profiling; Resistivity radial profiling; Semiconductors; *SP400-10*, pp. 249-256. **SP305-6.**

Spreading resistance techniques; Dark field coring; MOS-CV techniques; PICTUREPHONE®; Radial resistivity inhomogeneities; Silicon resistivity; *SP400-10*, pp. 179-184. **SP305-6.**

Springs; Upholstered furniture; Upholstery; Bedding; Beds; Blankets; Carpets; Curtains; Drapes; Fabrics; Fibers; Fire; Flames; Flammability; Flammable; Floor coverings; Furnishings; Furniture; Interior furnishings; Mattresses; Pads; *TN498-1*. **SP305-2.**

Springs; Wearing apparel; Apparel; Bedding; Beds; Blankets; Carpets; Clothing; Fabrics; Fibers; Fire; Flame; Flammability; Flammable; Floor coverings; Mattresses; Pillow cases; Pillows; Rugs; Sheets; *TN498*. **SP305-2.**

- Sprinkler operation; Automatic sprinklers; Bedroom fires; Droplet size; Heat absorption; Pool fires; Residential sprinkler protection; *NBS-GCR-76-58*. **SP305-8.**
- Sprinkler system; Construction; Corridor test; Fire endurance furnace; Fire growth; Heat release; Smoke abatement; *16150*. **SP305-8.**
- Sprinkler systems; Aircraft failure; Copernicus; Corrosion; Length standard; Lens calibration; Police helmets; Satellite time; *DIM/NBS 58*, No. 4, 74-96 (1974). **SP305-6.**
- Sprinklers; Bedding fires; Design criteria; Detector actuated automatic sprinklers; Detectors; Levels of protection; Life safety; *TN836*. **SP305-6.**
- Sprinklers; Survey; Building construction; Detectors; Flame spread; Furnishings; Interior finishes; Noncombustible; Smoke development; *TN861*. **SP305-7.**
- Sprouting inhibition; Chemical dosimeter; Disinfestation; Dosimetry; Dyes; Gamma rays; Insect sterilization; Shelf-life extension; *12193*. **SP305-3.**
- Spurious; Sum rule; Electron scattering; Momentum transfer; Pair correlation; Shell model; *12043*. **SP305-3.**
- Spurious; Symmetry breaking; U(12) theory; Baryon; Branching ratio; Decay; Decay width; Meson; Resonances; *9166*. **SP305.**
- Sputter deposition; Aluminum; Copper; Flash desorption spectroscopy; Gold; Reflectance; Silver; *SP462*, pp. 195-202 (Dec. 1976). **SP305-8.**
- Sputtered; Absorption damage levels; Coatings; CVD; Hot pressed; *SP462*, pp. 253-263 (Dec. 1976). **SP305-8.**
- Sputtered coatings; Surface characterization; Wear life; Antimony trioxide; Friction; Molybdenum disulfide; Spin axis gas bearings; *SP452*, pp. 177-186 (Sept. 1976). **SP305-8.**
- Sputtered coatings; Wear; Barrier film; Chemical coatings; Failure prevention; Mechanical failure; Metal coatings; Plated coatings; Polymer coatings; Solid film lubricants; *SP452*. **SP305-8.**
- Sputtering; Computer controlled process; Ion beam technology; Ionic polishing; Optical fabrication; Optical scatter; *SP348*, pp. 189-192. **SP305-4.**
- Sputtering; Figuring; Ion-beams; Optical surfaces; Polishing; Radiation damage; *SP348*, pp. 155-168. **SP305-4.**
- Sputtering; Substrates; Thin films; Evaporation; Magnetic retention; Masks; *15231*. **SP305-7.**
- Sputtering; Surface contamination; Cleaning; Desorption; Ions; Outgassing; Quartz crystal microbalance; Solar panels; Space; *SP336*, pp. 113-127. **SP305-3.**
- Sputtering; Ultrahigh vacuum systems; Charge exchange; Charge neutralization; Ion optics; Mass separators; Proton sources; Solar wind; *SP336*, pp. 261-277. **SP305-3.**
- Sputtering; Ultraviolet spectroscopy; Atomic spectra; High temperature materials; Low temperature; Matrix isolation; *11122*. **SP305-2.**
- Sputtering; Visible; Charge transfer; Lasers; *16497*. **SP305-8.**
- Sputtering of germanium; Characterization of laser damage; E-beam deposition of germanium; Germanium coating; Laser damage mechanism; Laser induced damage; Multiple beam damage apparatus; Potassium chloride; *SP414*, pp. 76-84. **SP305-6.**
- Sp<sup>2</sup> hybrids; Trigonal bipyramid; E.p.r.; Free radicals; Low-energy irradiation; Low temperature; PCl<sub>3</sub>; PCl<sub>2</sub>; *10572*. **SP305-1.**
- Square; Trapezoidal; Triangular; Dispersion; Distributions; Folding; Gaussian; *9398*. **SP305.**
- Square anti-prism; Anion excess fluorite; Crystal structure; Nb<sub>2</sub>Zr<sub>2</sub>O<sub>7</sub>; *13971*. **SP305-6.**
- Square array; Bulk resistivity; Collector resistivity; Four-probe; Planar test structure; Resistivity; Semiconductor characterization; Semiconductor device; Silicon; *16424*. **SP305-8.**
- Square matrix; Cramped; Field of values; Open positive convex cone; Polar decomposition; Positive definite; Spectrum; *J.78B* No. 1, 7-10 (1974). **SP305-6.**
- Square matrix; Eigenvalues; Ellipse; Field of values; *J.78B* 3, 105-107 (1974). **SP305-6.**
- Square-edged orifice; Temperature measurement; Temperature pattern; Diameter ratio; Mixing effectiveness; *BSS12*. **SP305.**
- Square-law; Detectors; Diodes; Linearity; *16490*. **SP305-8.**
- Squares, products; Commutators; Products of squares; *140*. **SP305-6.**
- Squarewave servo; Indirect synthesis; Phase noise; *156*. **SP305-7.**
- Squeeze; Test methods; Toys; Toy safety; Twist; Children; Children's strength; Pull; Push; Safety; Strength; *13595*. **SP305.**
- SQUID; Josephson junctions; Quantum interference; *135*. **SP305-6.**
- SQUID; Superconducting device; Geomagnetism; Magnetometer; *10535*. **SP305-7.**
- SQUID; Superconducting shield; Superconductivity; Cryogenic resistors; Current comparators; Low temperature; Shield; *15597*. **SP305-7.**
- SQUID; Superconducting switch; Tunnel junction; Voltage standard; Cryogenic resistor; Current comparator; Josephson device; Microstripline; Microwave coupling; *15596*. **SP305.**
- SQUID; Superconductor; Geophysical prospecting; Magnetometer; Magnetotelluric; Quantum interference; *14600*. **SP305.**
- Squids; Transmission lines; Waveform analysis; Waveguide; Antenna parameters; Attenuation; Automated measurement; EM Metrology; Field strength; Impedance; Noise; Power; Pulsed quantities; *NBSIR 74-395*. **SP305-7.**
- Squids; Transmission lines; Waveform analysis; Waveguide; Antenna parameters; Attenuation; Automated measurement; EM metrology; Field strength; Impedance; Laser parameter noise; Optical electronics; Phase; Power; Pulsed quantities; *NBSIR 75-818*. **SP305-7.**
- SrCl<sub>2</sub>; Double-doped KCl laser windows; Grain boundary; Hot forging; KCl; Mechanical strength; Microstructure; Optical absorption; RbCl; *SP462*, pp. 82-86 (Dec. 1976). **SP305-8.**
- SrFe<sub>2</sub>Mn<sub>1-x</sub>O<sub>3-y</sub>; Antiferromagnetism; CaFe<sub>2</sub>Mn<sub>1-x</sub>O<sub>3-y</sub>; defect structure; Mixed metal oxides; Mössbauer effect; Oxygen vacancies; Perovskite; Semiconductivity; *SP364*, pp. 265-277. **SP305-4.**
- SrF<sub>2</sub>; U centers; BaF<sub>2</sub>; CaF<sub>2</sub>; CdF<sub>2</sub>; Ionic polarization; Mollwo-Ivey relations; NaCl; Point-ion potential; *139*. **SP305-6.**
- SrF<sub>2</sub>; U centers; BaF<sub>2</sub>; CaF<sub>2</sub>; Ionic polarization; KCl; Mollwo-Ivey relations; NaCl; Point-ion potential; *J.77A* No. 5, 665 (1973). **SP305-5.**
- SRM; Standard reference material; Systematic error; Certification; Meaningful measurement; Measurement; Measurement system; Precision; Reference method; Specificity; *Mon*, 148. **SP305-7.**
- SRM; Standard Reference Materials; VMA; Bilirubin; Cholesterol; Cortisol; E.s.r.; D-mannitol; NADH; N.m.r.; Fty; *TN587*. **SP305-4.**
- SRM; Surgical implants; Testing; Thermal transients; Architectural heritage; Fire; Guardrail; High-capacity; Mathematic Mercury; Performance standard; Pressure transducer; *DIM/NBS 60*, No. 8, 1-24 (1976). **SP305-8.**
- SRM; X-ray fluorescence analysis; Austenite in ferrite; Electrode; Microprobe; Powder metallurgy; Quantitative microanalysis; *SP260-25*. **SP305-3.**
- SRM 1475; SRM 1476; Characterization; Gel permeation chromatography; Light scattering; Molecular weight; Molecular weight distribution; Osmometry; SRM 705; SRM 706; *12*. **SP305-4.**
- SRM 1476; Characterization; Gel permeation chromatography; Light scattering; Molecular weight; Molecular weight distribution; Osmometry; SRM 705; SRM 706; SRM 1475; *SP305-4.*

1705; SRM 706; SRM 1475; SRM 1476; Characterization; el permeation chromatography; Light scattering; Molecular weight; Molecular weight distribution; Osmometry; 12513. SP305-4.

1706; SRM 1475; SRM 1476; Characterization; Gel permeation chromatography; Light scattering; Molecular weight; Molecular weight distribution; Osmometry; SRM 705; 12513. SP305-4.

1767; Superconductivity; Transition temperatures; Fixed points; 15062. SP305-7.

1933; SRM 934; Thermometers; Clinical laboratory; Enzymology; Health care; Standard reference material; 14311. SP305-6.

1933; SRM 934; Thermometers; Clinical laboratory; Enzymology; Health care; Liquid-in-glass thermometers; Standard reference material; SP260-48. SP305-6.

1934; Thermometers; Clinical laboratory; Enzymology; Health care; Standard reference material; SRM 933; 14311. SP305-6.

1934; Thermometers; Clinical laboratory; Enzymology; Health care; Liquid-in-glass thermometers; Standard reference material; SRM 933; SP260-48. SP305-6.

$\text{MnO}_{x-1}\text{-Mn}_2\text{O}_3$  system;  $\text{SrMnO}_{3-x}$ ; Nonstoichiometry; Phase equilibria; 13478. SP305-5.

$\text{MnO}_{x-1}\text{-Mn}_2\text{O}_3$  system; Phase equilibria;  $\text{SrMnO}_{3-x}$ ;  $\text{MnO}_{x-1}\text{-Mn}_2\text{O}_3$  system; 13478. SP305-5.

1's; Biomedical; Clinical; Measurements system; Radioisotopes; Radiopharmaceuticals; Reference sources; Standards; 16151. SP305-8.

1's; Computer systems; Environmental; Fire; Glass door; Lead nitrate; Mercury thermometers; Metric; Nuclear power; Police radars; Solar energy; DIM/NBS 60, No. 2, 1-25 976). SP305-8.

1's; Standard materials; Standard reference materials; Standards; Certification; Certified reference materials; Materials; Meaningful measurements; Measurement; Reference materials; SP408. SP305-7.

1's; Standard Reference Materials Program; Agriculture; Air and water pollution; Biology; Botany; Health and medicine; Instrument calibration; Metrology; Research materials; Standard reference materials; 12349. SP305-3.

1's for clinical analysis; Urea SRM; Uric acid SRM; 6-mimo-6-deoxy-D-glucose-6- $^{15}\text{N}$ ; Bilirubin analysis; Calcium carbonate SRM; Conformations by NMR; Corn syrup analysis; Creatinine SRM; TN507. SP305-1.

1-480; Empirical methods; Minicomputers; On-line analysis; Quantitative electron probe microanalysis; Scanning electron microscopy; 15248. SP305-7.

$\text{IrO}_2$  compounds;  $\text{SrO-IrO}_2\text{-Ir}$  system; Dissociation; Equilibrium; Phase relations; J75A No. 3, 185-196 (1971). SP305-3.

$\text{IrO}_2\text{-Ir}$  system; Dissociation; Equilibrium; Phase relations;  $\text{IrO}_2$  compounds; J75A No. 3, 185-196 (1971). SP305-3.

$\text{IrO}_2$ ; Adiabatic polarization; Cooling technology; Dielectric cooling; Glass-ceramics; Magnetic thermal valve; Mechanical thermal valve; Refrigeration, solid-state; 14304. SP305-6.

$\text{IrO}_2$ ; Color centers; EPR; Hole centers; Optical absorption; Hared holes; 11805. SP305-3.

$\text{IrO}_2$ ; Strontium titanate; Superconductivity; Surface potential barrier; Tunneling; Indium; Semiconductors; 11925. SP305-3.

$\text{IrO}_2$ ; Superconducting; Transition temperature;  $(\text{Ba}_2\text{Sr}_{1-x})\text{TiO}_3$ ;  $(\text{Ca}_2\text{Sr}_{1-x})\text{TiO}_3$ ; Critical fields; Magnetic moment; Penetration depth; Semiconducting systems; 10817. SP305-1.

$\text{IrO}_2$ ; Superconductivity;  $\text{BaSrTiO}_3$ ;  $\text{CaSrTiO}_3$ ; Ceramics; Magnetization; Mixed titanates; Semiconductors; 10235. SP305-1.

$\text{IrO}_2$ ; Superconductivity; Transition temperatures; Semiconductors; 10381. SP305-1.

$\text{SrTiO}_3$ ; Superconductor; Electronic band structure; Heat capacity; Mixed titanate; Phase transition; Semiconductor; 10330. SP305-1.

$\text{SrTiO}_3$ ; Uniaxial stress; Absorption edge; Dichroism; Rotary transmission method; Selection rules; 10942. SP305-2.

SSP (Schoolhouse Systems Program); URBS (University Residential Building System); User requirements; ABS (Academic Building Systems); EFL (Educational Facilities Laboratories, Inc.); Environmental criteria; SP361, Vol. 1, pp. 297-301. SP305-4.

Stability; Accelerated aging; Aging; Deterioration; Laboratory aging; Preservation; Records; 11480. SP305-2.

Stability; Accelerated aging; Natural aging; Permanence; Record materials; Record papers; NBSIR 75-739. SP305-7.

Stability; Adaption; Acrylic; Contraction; Dentures; Epoxy; Expansion; Hard rubber; Retention; Serviceability; 12189. SP305-3.

Stability; Aging; Calibration (USFS); Frequency standards; Gas cells; Performance (long term); Reliability; Rubidium; TN341. SP305.

Stability; Alloy; Boundary layer; Fluid flow; Interface; Solidification; 15766. SP305-8.

Stability; Alloy; Grain boundary; Morphology; Solidification; 13659. SP305-5.

Stability; Averaging; Differential equations; Domains of stability; Integral manifold; Liapunov functions; 15940. SP305-8.

Stability; Candida albicans; Dentures; Dimensional changes in dentures; Oral tissues; Resilient liners; Retention; Silicone rubber; 10499. SP305-1.

Stability; Crystal growth; Diffusion; Heat flow; Interface; Kinetics; Morphology; Sphere; 9439. SP305.

Stability; Degradation; Paper; Preservation of records; Records; 11665. SP305-2.

Stability; Degradation; Paper; Preservation of records; Records; 11525. SP305-2.

Stability; Earthfill dams; Earthquakes; Ground shaking; Liquefaction; Soil density; SP444, pp. III-24-III-37 (Apr. 1976). SP305-8.

Stability; Fiber structure; Hide; Insulator leather; Mechanical properties; Physical properties; 9827. SP305-1.

Stability; Grain boundary; Morphology; Solidification; 15844. SP305-8.

Stability; Numerical integration; J73B No. 2, 119-123 (1969). SP305-1.

Stability; section cracking; Stress distribution; Unreinforced concrete; Buckling; compression members, concrete; Deflection; equilibrium; Load eccentricity; masonry; 12298. SP305-3.

Stability; Silicon avalanche diode; Solid state noise source; 16500. SP305-8.

Stability; Stability of cellulose; Stability of paper; Thermal analysis; Acidity; Aging; Alum sorption; Laboratory aging; Manifold; Paper records; 11789. SP305-2.

Stability; Stacking sequence; Thin shells; Torsion; Aircraft structures; Buckling; Composite materials; Metal reinforcement; NBSIR 74-572. SP305-6.

Stability; Standard; Wavelength; Fringe; Interferometer; Laser; Optical; Photoelectric; Precision; Scanning; 9942. SP305-1.

Stability; Standard reference materials; Accelerated testing; Clinical; Hazards; Legal problem packaging; Shipping; 16110. SP305-8.

Stability; Standards; Strength; United States; Abnormal loading; Building; Codes; Design criteria; Multistory; Progressive collapse; Risk; 13475. SP305-5.

Stability; Standards; Time scales; Accuracy; Basic standards; Frequency; Frequency metrology; 12957. SP305-4.

Stability; Statistics; Atomic frequency standards; Atomic time; 9552. SP305-1.

- Stability; Steady-state; Thermal; Transient; Absorption; Acoustic; Adiabatic; Fluid; Heat-conducting; Inviscid; Isothermal; Kirchhoff; Langevin equation; *J.74B No. 2, 67-84 (1970)*. **SP305-2.**
- Stability; Stopping distance; Tires; Traction; Tractionizing; Sipping; *TN566*. **SP305-3.**
- Stability; Storage; Tear strength; Testing; Aging; Alkalinity; Burst strength; Degradation; Differential thermal analysis; Durability; Manifold papers; Loads; PH; Reflectance; *12834*. **SP305-4.**
- Stability; Storage containers; Adsorption losses; Biological systems; Chromium; *SP422*, pp. 611-619 (Aug. 1976). **SP305-8.**
- Stability; Strength; Test; Testing; Tipping; Home playground equipment; *NBSIR 74-621*. **SP305-7.**
- Stability; Stress distribution; Structural engineering; Buckling; Compression members; Concrete; Cracking; Deflection; Eccentricity; Equilibrium; Loads (forces); Masonry; *15514*. **SP305-7.**
- Stability; Structural engineering; Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry; Moments; Slenderness ratio; *12227*. **SP305-3.**
- Stability; Structural engineering; Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry; Moments; Slenderness ratio; *15507*. **SP305-7.**
- Stability; Structures; Design mode; Limit states design; Load; Performance criteria; Reinforced concrete; Reliability; Resistance mode; Safety; Serviceability; *14656*. **SP305-6.**
- Stability; Sulfuric acid; Thermogravimetric analysis; Alum; Aluminum; Apparent activation energy; Calcium; Cellulose; Crosslinking; Differential thermal analysis; Ion exchange; Organic acid; Oxycellulose; *12218*. **SP305-3.**
- Stability; Surface tension; Alloys; Anisotropy; Interface kinetics; Solidification; *16213*. **SP305-8.**
- Stability; Surface tension; Aqueous solutions; Cylinder; Ice; Solute; *11889*. **SP305-3.**
- Stability; Surface tension; Cylinder; Ice; Morphology; Non-linear; *12386*. **SP305-4.**
- Stability; Surface tension; Water; Cylinder; Heat flow; Ice; Interfacial free energy; Perturbations; *10973*. **SP305-2.**
- Stability; Surface tension; Water; Cylinder; Heat flow; Ice; Morphology; Perturbations; *10974*. **SP305-2.**
- Stability; Survey of clocks; Accuracy; Atomic clocks; Clocks; Crystal oscillator; Frequency standards; *TN662*. **SP305-7.**
- Stability; Survey of clocks; Accuracy; Atomic clocks; Clocks; Crystal oscillator; Frequency standards; *15719*. **SP305-8.**
- Stability; Systems; Analysis; Hybrid phase; Intergrowth phase; Niobium pentoxide; Preparation; Ranges of homogeneity; *SP364*, pp. 63-86. **SP305-4.**
- Stability; Systems of differential equations; Numerical integration; Propagation of error; *J.71B2&3-204, 91-103 (1967)*. **SP305.**
- Stability; Temperature dependence; Fatigue; Light memory; Photocells; Photodiodes; Photometry; Radiometry; Selenium; Silicon; *TN594-5*. **SP305-5.**
- Stability; Tetrapyrroles; Bilirubin; Bilirubin-lanthanide complexes; Bilirubin-transition metal complexes; Biliverdin; Solvents; *12512*. **SP305-4.**
- Stability; Thermal conductivity; Viscosity; Absorption; Acoustic propagation; Fluids; Kirchhoff-Langevin; Navier-Stokes; *11694*. **SP305-2.**
- Stability; Thermal emf; W-3% Re and W-25% Re thermoelements; Argon; Evaporation; Exposure; Hydrogen and high vacuum environments; Metallographic examination; *11683*. **SP305-2.**
- Stability; Thin shells; Torsion buckling; Aircraft structures; Boron/epoxy; Composite materials; Reinforced aluminum; *TN728*. **SP305-4.**
- Stability; Thin shells; Torsional buckling; Composite materials; Elastic buckling; Reinforced aluminum; *14424*. **SP305-6.**
- Stability; Time and frequency dissemination; Time code generator; Time code receiver; Frequency standard; Network protocol; *13064*. **SP305-5.**
- Stability; Time and frequency dissemination; Time code generator; Time code receiver; Frequency standard; Network protocol; *13070*. **SP305-5.**
- Stability; Trace elements; Viscosity; Calibration standards; Concentration validity; Flash point; Lubricating oil; Pour point; Spectrometric analysis; *TN751*. **SP305-5.**
- Stability; Transition; Boundary layer; Roughness; Two-dimensional; *12807*. **SP305-4.**
- Stability; Tridiagonal; Diagonally dominant; Diagonal matrix; D-stability; Gersgorin's theorem; Lyapunov's theorem; Matrix; Oscillatory; Positive definite; Principal minor; Routh Hurwitz conditions; Sign stable; Sign symmetric; *1478*. **SP305-7.**
- Stability; Wet breaking load; Accelerated aging; Dry breaking load; Paper; PH; Records; Reflectance; Specifications; *1460*. **SP305-6.**
- Stability; ZrF<sub>4</sub>; ZrF<sub>3</sub>; ZrF<sub>2</sub>; CaF<sub>2</sub>; Entropy; Geometry; Infrared spectra; Matrix isolation; *13567*. **SP305-5.**
- Stability and strength; Test methods; Accident reports; High chairs; Infants; Safety standards; *NBSIR 74-509*. **SP305-6.**
- Stability definitions; Terminology standards; Allan variance; Frequency stability measurements; Measurement system description; Phase noise, spectral density; *TN632*. **SP305-5.**
- Stability limits; Transpiration measurements; Aluminum fluoride; Aluminum hydrofluorides; Equilibrium constants; Hydrogen fluoride; *J.77A No. 3, 341-342 (1973)*. **SP305-5.**
- Stability measure; Allan variance; Argon gas noise source; Cross correlation; Solid state noise source; *15666*. **SP305-7.**
- Stability of cellulose; Stability of paper; Thermal analysis; Acidity; Aging; Alum sorption; Laboratory aging; Manifold Paper records; Stability; *11789*. **SP305-2.**
- Stability of paper; Accelerated aging; Aging; Natural aging; Paper, permanent; Paper, stability; Permanent paper; Record papers; *NBSIR 74-632*. **SP305-7.**
- Stability of paper; Aging of paper; Archival materials; Natural aging; Old paper; Paper, aging of; Paper, stability of; Paper testing; *NBSIR 74-501*. **SP305-7.**
- Stability of paper; Thermal analysis; Acidity; Aging; Alum sorption; Laboratory aging; Manifold; Paper records; Stability of cellulose; *11789*. **SP305-2.**
- Stability of platinum resistance thermometers; Chemical changes in platinum resistance thermometers; High temperature platinum resistance thermometers; Physical changes in platinum resistance thermometers; *13579*. **SP305-5.**
- Stability of polymers; Degradation; Nonisothermal kinetics; Polymers; Pyrolysis; Thermal decomposition; Thermogravimetry; Thermolysis; *J.70A6-422, 487-523 (1966)*. **SP305.**
- Stability of polymers; Thermogravimetric analysis; Variation of the activation energy; Calculation of kinetic parameters; Determination of activation energies; Preexponential factor; *9192*. **SP305.**
- Stability of polymers; Thermogravimetry; Energy of activation; Initial kinetic parameters; Non-isothermal kinetics; Polyethylene; Polymer degradation; *9451*. **SP305.**
- Stability of value; Ten picofarad capacitor; Transportable ten picofarad capacitor; Unit of capacitance; Volume dependence; Capacitance standards; Fused silica dielectric; Picofarad capacitor; Shock sensitivity; *9653*. **SP305-1.**
- Stability of water samples; Zinc; Adriatic Sea; Cadmium; Copper; Electrochemical analysis; Heavy metals; Lead; Seawater analysis; Speciation; *SP422*, pp. 917-928 (Aug. 1976). **SP305-8.**
- Stability structure; High temperature species; *11961*. **SP305-3.**
- Stability, surface layers; Surface reactions; Anodic decomposition; Cathodic decomposition; Electrochemistry; Inorganic



bronze electrodes; Metal electrodes; Semiconductor electrodes; *SP455*, pp. 267-280 (Nov. 1976). **SP305-8**,  
 bility theory; Contractions; Functional analysis; Operators; Semigroups; *J74B No. 4*, 311-319 (1970). **SP305-2**,  
 bility theory; Topology; Contractions; Control theory; Functional analysis; Semigroup; *J74B No. 2*, 115-120 (1970). **SP305-2**,  
 bilization; Standard reference material; Trace element; Water standard; Mercury; *15458*. **SP305-7**,  
 bilization; Tantalum oxide; High temperature polymorph; Single crystals; *J74A No. 4*, 477-484 (1970). **SP305-2**,  
 bilization; Tantalum oxide; Low temperature polymorph; Single crystals; *J74A No. 4*, 485-493 (1970). **SP305-2**,  
 bilization; Techniques; Time standard; Frequency; Laser; Laser frequency measurement; *12135*. **SP305-3**,  
 bilized arc; Stark broadening; Asymmetries; Hydrogen lines; Line profiles; Shifts; *12934*. **SP305-4**,  
 bilized laser; Transition probability; Frequency standard; Methane resonance; Molecular beam; Ramsey resonance; Saturated absorption; *13800*. **SP305-5**,  
 bilizer; Bridge; Leveler; Microwave; Power; Self balancing; *2042*. **SP305-3**,  
 bilizer; Styrene-butadiene rubber (SBR); Washes; Bound tyrene; Carbon black; Chemical analysis; Latexes; Oil; Organic acid; Serums; Soap; *TN485*. **SP305-1**,  
 bilizer; Toy safety; Computer security; Energy efficiency; Electrocatalysis; Fluorides; Heart; Heat pump; Laser; Ozone; Radiometer; *DIM/NBS 59*, No. 11, 241-264 (1975). **SP305-1**,  
 bilizer; Weathering; Additive; Asphalt; Durability; Felt; *25524*. **SP305-1**,  
 bilizer; X-ray tube; Controlled; Current; Emission; Impedance; Regulator; *10807*. **SP305-1**,  
 bilizer; X-ray tube; Controlled impedance; Current; Emission; Regulator; *10140*. **SP305-1**,  
 bilizers; Toxicity; Antioxidants; Biomaterials; Comonomers; Inhibitors; Polymerization; *13303*. **SP305-5**,  
 bilizers; Toxicity; Antioxidants; Biomaterials; Comonomers; Inhibitors; Polymerization; *12915*. **SP305-4**,  
 bilizing material for fractures and implants; Acrylic splint; Auto-polymerizing acrylics; Biomaterial containing filled acrylic resin; Low peak temperature polymers; *11334*. **SP305-2**,  
 ble; Transistor; Variable; Current; Generator; Magnetic; *0127*. **SP305-1**,  
 ble ac supply; Voltage monitor; Absolute volt experiment; Feedback control system; Power amplifier; Power supply oscillator; *14053*. **SP305-6**,  
 ble capacitance; Temperature variation of capacitance; Capacitance; Dielectric constant; *11935*. **SP305-3**,  
 ble converter; Wide dynamic range; Fast integrator; High duty; Integral linearity; *12850*. **SP305-4**,  
 ble distribution; Sums of independent random variables; Tables; Truncation; Accuracy; Approximations; Asymptotic expansion; Cauchy distribution; Characteristic function; Closed forms; Contour; Convergence; *J77B Nos. 3 and 4*, 143-198 (1973). **SP305-5**,  
 ble distributions; Abelian summation; Ordered spans; Random walks; *16011*. **SP305-8**,  
 ble free radical; Azulene; Periodic acid; Polymeric product; *10345*. **SP305-1**,  
 ble isotope dilution; Trace determinations; Cation-exchange; Electrodeposition; High-purity metal analysis; Multi-element; Spark source mass spectrometry; *11242*. **SP305-2**,  
 ble matrix; Cone; Lyapunov's theorem; *15763*. **SP305-8**,  
 ble matrix; *M*-matrix; Principal minors; *J78B No. 3*, 103-104 (1974). **SP305-6**,  
 ble population; Eigenvalue; Net reproduction rate; Oscillations; Perron-Frobenius theory; Rate of natural increase; *J78B No. 2*, 73-78 (1974). **SP305-6**,  
 Stable pressure generation; Vacuum measurements; Calibration; Capacitance-diaphragm gauge; Medium vacuum range; Micromanometer; *11442*. **SP305-2**,  
 Stable vacuum systems; Transmission probability; Vacuum calibration; Vacuum measurements; Clausius factors; Free molecular flow; Precision ionization gauges; *13143*. **SP305-5**,  
 Stack emissions; Ambient air; Automotive emissions; Laser magnetic resonance technique; *16109*. **SP305-8**,  
 Stacking fault; Dislocation; Elastic energy; Loops; *9674*. **SP305-1**,  
 Stacking fault; Dislocation-electron interactions; Slater-Koster method; *SP317*, pp. 1279-1288. **SP305-3**,  
 Stacking fault; Twin; Wedge; Crystal; Disclination; Dislocation; Pseudopentagonal; *15767*. **SP305-8**,  
 Stacking fault energy; Annealing; Cubic alloy; Dislocation; Electron microscopy; Hexagonal alloy; Silver-tin alloy; *13382*. **SP305-5**,  
 Stacking fault energy; Dislocation; Dislocation double ribbons; Dislocation nodes; Hcp alloys; Silver-tin alloys; *11440*. **SP305-2**,  
 Stacking fault energy; Dislocations; Extrinsic faults; Silver-tin alloy; *9459*. **SP305**,  
 Stacking fault energy; Dislocations; Electron microscopy; Oxygen impurities; Silver-tin alloys; *10566*. **SP305-1**,  
 Stacking fault energy; Stacking fault tetrahedra; Dislocation nodes; Dislocation ribbons; Dislocations; Faulted dislocation dipoles; *11828*. **SP305-3**,  
 Stacking fault energy; Stacking fault pairs; Stainless steel; Dislocations; Electron microscopy; *14374*. **SP305-6**,  
 Stacking fault energy; Standard Reference Material; Austenitic stainless steel; Electron probe microanalysis; Fe-Cr-Ni alloy; Homogeneity testing; Metallography; *SP260-43*. **SP305-4**,  
 Stacking fault energy; Temperature; Dislocations; Electron microscopy; Iron alloys; *12105*. **SP305-3**,  
 Stacking fault energy; X-ray diffraction; Deformation; Dislocations; Face-centered cubic metals; Faults; Fourier analysis; Review; *14750*. **SP305-7**,  
 Stacking fault energy; X-ray diffraction; Invar; Iron alloys; Nickel alloys; *16191*. **SP305-8**,  
 Stacking fault energy, stainless steel; X-ray diffraction; Austenite; Iron alloys; *15139*. **SP305-7**,  
 Stacking fault pairs; Stainless steel; Dislocations; Electron microscopy; Stacking fault energy; *14374*. **SP305-6**,  
 Stacking fault probability; X-ray diffraction data; Silver; Silver-tin alloys; *11915*. **SP305-3**,  
 Stacking fault tetrahedra; Dislocation nodes; Dislocation ribbons; Dislocations; Faulted dislocation dipoles; Stacking fault energy; *11828*. **SP305-3**,  
 Stacking fault tetrahedra; Dislocation loops; Dislocations; Electron microscopy; Quenching; Silver-tin alloy; *10037*. **SP305-1**,  
 Stacking faults; Dislocation nodes; Dislocations; Electron microscopy; Silver-tin alloys; Stacking fault energy; *9502*. **SP305**,  
 Stacking faults; Dislocation-electron interactions; Interatomic potentials; *SP317*, pp. 1259-1277. **SP305-3**,  
 Stacking faults; Low temperatures; Martensite; *10184*. **SP305-1**,  
 Stacking faults; Shockley partials; Dislocation geometry; *SP317*, pp. 47-55. **SP305-3**,  
 Stacking faults; Transmission electron microscopy; Alloys; Dislocation; Dislocation nodes; *9804*. **SP305-1**,  
 Stacking faults; X-ray diffraction; Dislocations; Electron microscopy; Silver-tin alloys; *9963*. **SP305-1**,  
 Stacking sequence; Thin shells; Torsion; Aircraft structures; Buckling; Composite materials; Metal reinforcement; Stability; *NBSIR 74-572*. **SP305-6**,  
 Stacking fault energy; Dislocations; Electron microscopy; Silver-tin alloy; *9501*. **SP305**,

- Stacking-fault energy; Stacking faults; Dislocation nodes; Dislocations; Electron microscopy; Silver-tin alloys; 9502. **SP305.**
- Stacking-fault energy; Stacking-fault probability; X-ray; Alloys; Dislocation; 12893. **SP305-4.**
- Stacking-fault energy in binary alloys; Thermodynamic treatments of the segregation of solute atoms in stacking faults; 9673. **SP305-1.**
- Stacking-fault probability; X-ray; Alloys; Dislocation; Stacking-fault energy; 12893. **SP305-4.**
- Stage; Large sample; Low magnification; Scanning electron microscope; 14510. **SP305-6.**
- Stages of building; Application of performance concept; Building levels; External factors; Internal factors; Performance analysis; Performance evaluation; *SP361, Vol. 1*, pp. 219-226. **SP305-4.**
- Stagger-tuned shaker; Vibration; Vibration pickup; Calibration; Damped resonant cylinders; Damping; Piezoelectric shaker; 11346. **SP305-2.**
- Stagnation point; Turbulence; Disk; Pressure fluctuations; *TN563*. **SP305-3.**
- Stagnation pressure; Arc currents; Arc heaters; Constricted arc; Enthalpy; Operational limits; *SP336*, pp. 879-892. **SP305-3.**
- Stain resistance; Surface-chemical resistance; Test methods; Abrasion resistance; Chemical resistance; Cigarette-burn resistance; Cleanability and soilability; Concentrated static-load capacity; Performance characteristics; Performance level; Sanitary plumbing fixtures; Scratch resistance; *B5522*. **SP305-2.**
- Stainless steel; Antiferromagnetic; Cold-work; Fe-Ni-Cr alloys; Neel temperature; Shear modulus; *J70C3-232, 207-210 (1966)*. **SP305.**
- Stainless steel; Corrosion pits; Electron microscopy; Fe-Cr alloys; Passive films; *13296*. **SP305-5.**
- Stainless steel; Cryostat; Fatigue; Impact; Low temperature; Mechanical property equipment; *J75C No. 2, 95-98 (1971)*. **SP305-3.**
- Stainless steel; Dislocations; Electron microscopy; Stacking fault energy; Stacking fault pairs; *14374*. **SP305-6.**
- Stainless steel; Fatigue; Fracture; Impact; Low temperature; Mechanical property equipment; *TN609*. **SP305-3.**
- Stainless steel; Hyperfine fields; Perturbed angular correlation, Mössbauer effect; *13494*. **SP305-5.**
- Stainless steel; Standard Reference Material; Thermal conductivity; Cryogenics; Electrical resistivity; *SP260-35*. **SP305-4.**
- Stainless steel; Steel, titanium; Alloys; Aluminum; Combustion; Ignition; Oxygen; Safety; *NBSIR 73-345*. **SP305-6.**
- Stainless steel; Stress; Stress-corrosion; Underground; Corrosion; Galvanic; Hydrogen embrittlement; Soil; *16354*. **SP305-8.**
- Stainless steel; Stress corrosion cracking; Titanium alloys; Chloride; Crevice corrosion; Dissolved oxygen; Ellipsometry; Nitrates; PH; Repassivation kinetics; *13769*. **SP305-5.**
- Stainless steel; Stress relaxation; Thermodynamics; Viscoelasticity; Creep; Dissipation; Elevated temperature; Energy; Hold-time; Hysteresis; Low-cycle fatigue; Plasticity; *16004*. **SP305-8.**
- Stainless steel; Technique; Infrared; Low-temperature; Measurement; Spectral reflectance; *11347*. **SP305-2.**
- Stainless steel; Temperature-resistant alloys; Thermal conductivity; Conductivity; Heat conductivity; Heat-resistant alloys; Heat transfer; *10721*. **SP305-1.**
- Stainless steel; Thermal expansion; Titanium alloys; Aluminum alloys; Copper-nickel alloys; Cryogenics; Specific heat; *12784*. **SP305-4.**
- Stainless steel; Time-of-flight; Activation method; Group constants; Iron; Neutron spectrum; One-dimensional transport calculation; *SP425*, pp. 184-188. **SP305-7.**
- Stainless steel; Underground corrosion; Copper; Corrosion; Galvanic corrosion; Soil corrosion; *16355*. **SP305-8.**
- Stainless steel; Welding; Backscattering; Casting; Ferrite; Mössbauer; *14192*. **SP305-6.**
- Stainless steel; X-ray analysis; Electron microscopy; Fe-Cr alloys; Passive films; Pitting corrosion; *16024*. **SP305-8.**
- Stainless steel powder metallurgy compact; Optical metallurgy; Macroanalytical techniques; Optical emission; X-ray spectrochemical analysis; Microanalytical techniques; Sol mass spectrometer; Electron probe microanalyzer; *M260-SP305.*
- Stainless steel waveguide; Comparison of results; Dc potentiometer test set; Dual channel system; Modulated subcarrier Ratio transformer test set; Small attenuation measure; Small insertion loss measurement; Small reflection coefficient measurements; *11917*. **SP305-3.**
- Stainless steels; Statistics; Aluminum alloys; Cryogenic; Electrical resistivity; Low temperature; Material variability; Nickel; *13215*. **SP305-5.**
- Stainless steels; Steels; Alloys; Corrosion-resisting alloy; Copper-nickel alloys; Electroplating; Electrical resistance; Alloys; Heat resisting alloys; Magnetic alloys; Maraging steels; Nickel; *Monogr. 106*. **SP305-1.**
- Stainless steels; Steels; Stress corrosion; Atmospheric corrosion tests; Chemical attack; Cold working; Corrosion; Cracks; *9479*. **SP305.**
- Stainless steels; Strengthening mechanisms; Superalloys; Titanium alloys; Tool steels; Ultrahigh strength; Alloy steels; Ausformed steels; Cold-drawn steels; Dispersion hardened alloys; Fiber and whisker reinforced materials; Maraging steels; *12789*. **SP305-4.**
- Stainless steels; Stress corrosion; Testing techniques; Chloride crevice corrosion, ellipsometry failure prediction; Mol denum; Repassivation kinetics; *NBSIR 74-583*. **SP305-7.**
- Stainless steels; Stress-corrosion; Titanium alloys; Experimental techniques for stress corrosion testing; High strength steels; Hydrogen embrittlement; Low carbon steels; *10390*. **SP305-1.**
- Stainless steels; Stress-corrosion behavior; Coatings; Corrosion behavior; Field tests; Galvanic couples; Soil environment; *NBSIR 76-1081*. **SP305-8.**
- Stainless steels; Structural steels; Surface hardening; Tempering; Tool steels; Annealing; Case hardening; Chemical composition; Hardening; Heat treatment; Ni-maraging steels; Normalizing; *Mono. 88*. **SP305.**
- Stainless steels; Superconducting machinery; Thermal conductivity; Titanium alloys; Aluminum alloys; Composites; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Cryogenic temperatures; Maraging steels; Mechanical properties; Nickel alloys; *NBSIR 76-848*. **SP305-8.**
- Stair safety research; Architectural psychology; Architecture research; Building research; Building safety; Perception; *NBSIR 76-1046*. **SP305-8.**
- Stairway; Static stability; Test weight; Tilt angle; Toy tests; Abuse testing; Dynamic stability; Hazards; Obstruction; Falling toys; *NBSIR 74-623*. **SP305-7.**
- Standard; Accelerator design; Accelerator operation; Health physics; Particle accelerators; Radiation measurement; Radiation protection; *H107*. **SP305-2.**
- Standard; Alarm; Audio alarm; Burglar alarm; Intrusion alarm; Intrusion detector; Sound sensing; *16367*. **SP305-8.**
- Standard; Armor; Ballistic shields; *14553*. **SP305-6.**
- Standard; Audio frequency; Thermal voltage converter; Inductive voltage divider; Measurement; Phase-angle; *TN3*. **SP305.**
- Standard; Biological; Neutron activation analysis; Selenium; *12734*. **SP305-4.**
- Standard; Calibration; Microphones; *9342*. **SP305.**
- Standard; Calorimeter; Microwave; Power; *TN618*. **SP305-4.**
- Standard; Ceramic; Light; Photometry; Spectral emission; *TN595*. **SP305-3.**
- Standard; Cryogenic; Microwave; Noise; *11164*. **SP305-2.**

- Standard; Detectors; Germanium; Ion chamber; Liquid scintillation; Sodium iodide; *SP456*, pp. 77-82 (Nov. 1976). **SP305-8.**
- Standard; Differential chemical shift; Quadrupole splitting; Random error; Systematic error; Sodium nitroprusside; Iron compounds; Optical Mossbauer spectrometer; Tandem Mossbauer spectrometer; Velocity calibration; Mossbauer; Spectroscopy; *M260-13*. **SP305.**
- Standard; Dimensional; Gage; Instrument; Laser; Length; Machine; Measurements; *NBSIR 75-926*. **SP305-8.**
- Standard;  $\gamma$  radiation;  $\gamma$  response; Calibration; Exposure rate; Geometry; Instrument; Ion chamber; Roentgen; *SP456*, pp. 59-63 (Nov. 1976). **SP305-8.**
- Standard; Instrument; Interchangeability; Modules; Nuclear; *10528*. **SP305-1.**
- Standard; Instrument; Interchangeability; Modules; Nuclear; *10216*. **SP305-1.**
- Standard; Oscilloscope; Peak voltage; Pulse; Sampling; Slideback; *9972*. **SP305-1.**
- Standard; Standard reference material; Viscosity; Viscosity standard; Beam bending; Fiber elongation; Glass; Glass standard; Glass viscosity; Lead-silica glass; Restrained sphere; Rotating cylinders; *M260-11*. **SP305.**
- Standard; Standard test; Thermal performance; Thermal storage; Thermal test; Solar energy; *NBSIR 74-634*. **SP305-7.**
- Standard; Standard test; Thermal performance; Solar collector; Solar energy; Solar radiation; *NBSIR 74-635*. **SP305-7.**
- Standard; Standard test; Thermal performance; Thermal storage; Solar collector; Solar energy; Solar radiation; *TN899*. **SP305-8.**
- Standard; Stress-corrosion; 3.5 percent NaCl; 7XXX aluminum alloys; Aluminum Association; ASTM; Industrial atmosphere; Round robin tests; Seacoast atmosphere; *16656*. **SP305-8.**
- Standard; Strip-line; Transfer function; Deflector; Drift space; Oscilloscope; *J72C No. 2, 117-125 (1968)*. **SP305-1.**
- Standard; Structure; X-ray diffraction; Constants; Crystal; Lattice; Measurements; Powder-patterns; Reference-intensities; *Mono. 25, Section 5*. **SP305.**
- Standard; Structure; X-ray diffraction; Constants; Crystal; Lattice; Measurements; Powder-patterns; Reference-intensities; *Mono. 25, Section 6*. **SP305-1.**
- Standard; Temperature; Graphite arc; Pyrometry; *9346*. **SP305.**
- Standard; Theory; Comparison; Fast; Integral-measurements; Neutron; Nuclear-data; Spectra; *13343*. **SP305-5.**
- Standard; Thermal conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; Platinum; Reference material; Resistivity; *J71C4-1258, 255-284 (1967)*. **SP305.**
- Standard; Thermal conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; Platinum; Reference material; Resistivity; *10549*. **SP305-1.**
- Standard; Thermal conductivity; Conductivity; Electrical conductivity; Electrical resistivity; Heat conductivity; Lorenz function; Platinum; Reference material; Resistivity; *11304*. **SP305-2.**
- Standard; Thermal noise; Millimeter waves; Noise calibration; *14148*. **SP305-6.**
- Standard; Thermal-current-converter; Thermopile; Ammeter; Compensation; Radio-frequency; RF-DC difference; *14588*. **SP305-6.**
- Standard; Time; Dissemination; Frequency; High frequency broadcasts; *TN668*. **SP305-7.**
- Standard; Torsional pendulum; Viscosity; Absolute measurement; Calibration; *J75A No. 6, 541-551 (1971)*. **SP305-3.**
- Standard; Trace elements; Accuracy; Atomic Absorption Spectrometry; Caribbean; Precision; Puerto Rico; Replicates; Sediments; *SP422*, pp. 1089-1102 (Aug. 1976). **SP305-8.**
- Standard; Transceiver; Antenna; Communications; Law enforcement; Mobile; *14552*. **SP305-6.**
- Standard; Unit; Degree Kelvin; Kilogram; Measurement system; Meter; Physical constant; Second; *9797*. **SP305-1.**
- Standard; Unit; Wattohour meter calibration; Wattohour meter; Calibration; Current comparator; Electrical energy unit; Metrology; *14881*. **SP305-7.**
- Standard; Viscosity; Viscous flow; Absolute measurement; Calculation of bounds; Calibration; Poiseuille flow; *J75A No. 6, 553-560 (1971)*. **SP305-3.**
- Standard; Voluntary Product Standards; Editorial format; Format; Product Standards; *P50-70*. **SP305-3.**
- Standard; Water vapor; Humidity measurement; Moisture; *14727*. **SP305-7.**
- Standard; Wavelength; Fringe; Interferometer; Laser; Optical; Photoelectric; Precision; Scanning; Stability; *9942*. **SP305-1.**
- Standard; Weighing; Density; Etching; Grinding; Sawing; Silicon; *NBSIR 76-1019*. **SP305-8.**
- Standard; X ray; Alpha particle; Beta particle; Gamma-ray; Radioactivity; Sediment; *15933*. **SP305-8.**
- Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; *Monogr. 25, Section 10*. **SP305-4.**
- Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; *Monogr. 25, Section 9*. **SP305-3.**
- Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; *Monogr. 25, Section 7*. **SP305-1.**
- Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities, powder patterns; Reference intensities; *Monogr. 25, Section 11*. **SP305-6.**
- Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; *Monogr. 25, Section 8*. **SP305-2.**
- Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; *Monogr. 25, Section 12*. **SP305-7.**
- Standard; X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; *Monogr. 25, Section 13*. **SP305-8.**
- Standard;  $^{10}\text{B}$ ;  $^{10}\text{Li}$ ; Neutron cross section; *SP425*, pp. 232-235. **SP305-7.**
- Standard antenna; Swept-frequency; Antenna gain; Frequency measurement; *9712*. **SP305-1.**
- Standard antenna gain; Three-antenna extrapolation; Calibration; Ground antenna; *15641*. **SP305-7.**
- Standard apparatus; Toys; Acoustics; Cap guns; Children; Consumer safety; Hearing damage; Noise; Paper caps; *TN793*. **SP305-5.**
- Standard apparatus; Toys; Children; Consumer safety; Guns; Hearing damage; Noise; *NBSIR 74-619*. **SP305-7.**
- Standard audio frequencies; Standard radio frequencies; Time and frequency; Worldwide radio stations; Atomic time; Frequency and time; International Time Bureau; *9537*. **SP305-1.**
- Standard capacitor; Two-terminal capacitor; Capacitance measurement; Coaxial adaptor; Coaxial connector; Fringe capacitance; *J74C Nos. 3 and 4, 111-116 (1970)*. **SP305-2.**
- Standard cell; Tunnel junction; Voltage comparator; Voltage standard; Josephson effect; *13949*. **SP305-6.**
- Standard cell; Voltage comparison; Josephson junction; *13707*. **SP305-5.**
- Standard cell; Voltage standard; Zener diode; Electrical measurements; Instrumentation; *10925*. **SP305-2.**
- Standard cell enclosure; Standard cells; Ac transformer-ratio bridge; Platinum resistance thermometer; *14925*. **SP305-7.**
- Standard cell facilities; Standard cell transfer; Standard cells; Volt standard; Electromotive force; *9327*. **SP305.**

- Standard cell surveillance; Computer automation; Resistance thermometers; Resistor intercomparison; *SP335*, pp. 29-33. **SP305-3.**
- Standard cell transfer; Standard cells; Volt standard; Electromotive force; Standard cell facilities; *9327*. **SP305.**
- Standard cells; Ac transformer-ratio bridge; Platinum resistance thermometer; Standard cell enclosure; *14925*. **SP305-7.**
- Standard cells; Cell with low temperature coefficient; Double salt; Galvanic cells; *J.72A No. 4, 351-354 (1968)*. **SP305-1.**
- Standard cells; Effect of acid on standard cells; EMF-temperature coefficients of standard cells; Entropy changes in standard cells; Heat-capacity changes in standard cells; *J.76A No. 4, 321-328 (1972)*. **SP305-4.**
- Standard cells; Surveillance of local units of voltage; Voltage standards; Voltage transport standards; Unit of voltage; Regional maintenance of the volt; *14935*. **SP305-7.**
- Standard cells; Temperature coefficient of standard cells; Early types of standard cells; Life of standard cells; *10558*. **SP305-1.**
- Standard cells; Thermoelectric; Connector; Electromotive force; Oil baths; *TN353*. **SP305.**
- Standard cells; Transference numbers; Batteries; Debye-Hückel-Onsager theory of conductance; Electrochemical thermodynamics; Electrode mechanisms; Electrolytic conductivity; Fuel cells; Ionic charge; Ionization; *10559*. **SP305-1.**
- Standard cells; Unsaturated standard cells; Electromotive force; Saturated standard cells; *12037*. **SP305-3.**
- Standard cells; Volt standard; Electromotive force; Standard cell facilities; Standard cell transfer; *9327*. **SP305.**
- Standard cells; Voltage transformers; Zener diodes; Ac-dc transfer standards; Capacitors; Current transformers; Dielectric measurements; Electrical calibrations; Electrical measurements; Electrical standards; Electrical units; *SP300, Volume 3*. **SP305-1.**
- Standard cells calibration; Statistics; Voltage standard; Control charts; Experiment design; Saturated standard cells; *TN430*. **SP305.**
- Standard cross section; Uncertainty file; Correlation; Covariance; ENDF/B; *SP425*, pp. 173-176. **SP305-7.**
- Standard cross sections;  $^3\text{He}(n,p)$ ;  $^6\text{Li}(n,\alpha)$ ;  $^{10}\text{B}(n,\alpha)$ ;  $^{235}\text{U}(n,f)$ ;  $^{237}\text{Np}(n,f)$ ;  $\text{Au}(n,\gamma)$ ;  $\text{C}(n,n)$ ;  $\text{H}(n,n)$ ; Neutron flux determination; *SP425*, pp. 293-301. **SP305-7.**
- Standard data elements; Computer applications; Computer instruction; Data processing; Education; *10747*. **SP305-1.**
- Standard development; Baby cribs; Children's furniture; Product safety; Product testing; Safety regulations; *NBSIR 75-714*. **SP305-7.**
- Standard deviation; Statistical concepts; Control chart; Data analysis; Measurement process; Metrology; Precision; Propagation of error; *11797*. **SP305-2.**
- Standard deviation; Statistics; Student-t; Table of Student-t; Uncertainties; *J.73C Nos. 1 and 2, 15-16 (1969)*. **SP305-1.**
- Standard deviation; Statistics; Updating estimates; Data analysis; Mean; *15640*. **SP305-7.**
- Standard deviation; Systematic error; Uncertainty; Mass measurement; Random variability; *13402*. **SP305-5.**
- Standard deviation; Test measure; Volumetric transfer calibration; Check standard; Closure; Gravimetric calibration; *NBSIR 74-454*. **SP305-6.**
- Standard dielectric; Cavity method for dielectrics; Dielectric constant; Dielectric loss; International comparison; Laboratory intercomparison; Permittivity; *14999*. **SP305-7.**
- Standard dielectric; Standard of dielectric constant; Standard reference materials; Dielectric constant standards; Fluorinated ethylene-propylene; Fluorinated polymers; Precise dielectric measurements; *10975*. **SP305-2.**
- Standard dimension ratio (SDR); Acrylonitrile-butadiene-styrene (ABS); Outside diameter dimensions; Pipe; *PS19-69*. **SP305-2.**
- Standard dimension ratio (SDR); Inside diameter dimensions; Materials; Pipe; Polyethylene (PE); Pressure; *PS11-69*. **SP305-2.**
- Standard dimension ratio (SDR); Threads; Class T; Dimensional Hydrostatic design stress; Materials; Pipe; Poly(vinyl chloride) (PVC); Pressure; Pressure rating (PR); *PS22-69*. **SP305-2.**
- Standard emf; Thermodynamic constants for HCl transfer; Activity coefficients; Non-aqueous emf; *J.74A No. 5, 641-6 (1970)*. **SP305-2.**
- Standard error; Systematic error; Uncertainty; Accuracy; Calibrations; Expression of uncertainty; Measurements; Precision; *10544*. **SP305-1.**
- Standard error; Systematic error; Uncertainty; Accuracy; Calibrations; Expression of uncertainty; Measurements; Precision; *11029*. **SP305-2.**
- Standard errors; Standard reference materials; Vapor pressure; Cadmium; Components of error (within- and between-laboratory); Heats of sublimation (second and third law); International laboratory measurements; Silver; *SP260-21*. **SP305-3.**
- Standard errors; Standard reference materials; Vapor pressure; Components of error (within- and between-laboratory); Gold; Heats of sublimation (second and third law); International laboratory measurements; *SP260-19*. **SP305-2.**
- Standard Fading Hour; Wool standards; Appreciable fading; Fading; Light-sensitive paper; Paper, light-sensitive; *117*. **SP305-2.**
- Standard field; Antenna; Electric field strength; Measurement; *11749*. **SP305-2.**
- Standard fields; Susceptibility; Testing; Transverse electromagnetic; Compatibility; *14725*. **SP305-7.**
- Standard FORTRAN; Test program design; Computer programming language; FORTRAN; Language validation; *137*. **SP305-5.**
- Standard FORTRAN; Test program design; Computer programming language; FORTRAN; FORTRAN validation; Language validation; *SP399, Volume 1*. **SP305-6.**
- Standard FORTRAN; Test program design; Computer programming language; FORTRAN; FORTRAN validation; Language validation; *SP399, Volume 2*. **SP305-6.**
- Standard FORTRAN; Test program design; Computer programming language; FORTRAN; FORTRAN validation; Language validation; *SP399, Volume 3*. **SP305-6.**
- Standard free energy; Tetradecyltrimethyl ammonium bromide; Decyltrimethyl ammonium bromide; Diffusion coefficient; Dodecyltrimethyl ammonium bromide; *13294*. **SP305-5.**
- Standard frequencies; Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; *SP236, 1973 Edition*. **SP305-5.**
- Standard frequencies; Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; *SP236, 1972 Edition*. **SP305-4.**
- Standard frequencies; Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; *SP236, 1971 Edition*. **SP305-3.**
- Standard frequencies; Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; *M236, 1967 Edition*. **SP305.**
- Standard frequencies; Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; *9237*. **SP305.**
- Standard frequencies; Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; *SP236, 1968 Edition*. **SP305-1.**
- Standard frequencies; Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; *SP236, 1969 Edition*. **SP305-1.**
- Standard frequencies; Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; *SP236, 1974 Edition*. **SP305-6.**



standard frequencies; Time signals; WWV; High frequency broadcasts; **11468. SP305-2.**

standard frequencies; Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; **SP236, 1970 Edition. SP305-2.**

standard frequency; Standard frequency broadcasts; Time signals; Portable clocks; Satellite timing; **9954. SP305-1.**

standard frequency and time broadcasts; Statistics of frequency and time measurements; Time scales; Time synchronizations; TV timing; VLF timing; Atomic beams; Atomic clocks; Atomic standards; Atomic time; Clock synchronization; **SP300, Volume 5. SP305-4.**

standard frequency and time broadcasts; Time; Frequency; Questionnaire; **TN674. SP305-7.**

standard frequency and time signals; Time; Time and frequency standards; Time scales; Broadcast time signals; **9791. SP305-1.**

standard frequency broadcasts; Statistics of time/frequency measurements; Time; Time/frequency dissemination; Time scales; Timing (HF, LF, satellite, TV, VLF); Wavelength standards; WWV; WWVB; WWVH; WWVL; Atomic clocks; Atomic standards; **SP350. SP305-3.**

standard frequency broadcasts; Time interval; Time scales; Clock synchronization; Frequency and time dissemination; Primary frequency standard; **TN379-1. SP305-4.**

standard frequency broadcasts; Time signals; Portable clocks; satellite timing; Standard frequency; **9954. SP305-1.**

standard frequency broadcasts; Time; Time signals; VLF propagation; Frequency; Portable clocks; **10015. SP305-1.**

standard frequency broadcasts; Time interval; Time scales; Clock synchronization; Frequency and time dissemination; Primary frequency standard; **TN379. SP305-1.**

standard frequency broadcasts; Time interval; Time scales; Clock synchronization; Frequency and time dissemination; Primary frequency standard; **TN656. SP305-6.**

standard gain horns; Antennas; Calibration; Comparison; Effective aperture; Electromagnetic horns; Gain; Measurement; Microwave; Mismatch errors; Rayleigh distance; **TN351. SP305.**

standard gases; Cryogenics; Energy conservation; Energy generation; Household appliance energy labels; Motor vehicles using dual-fuel systems; Optical radiation news; **JIM/NBS 57, No. 8, 177-200 (1973). SP305-5.**

standard gravity; Units of force; Absolute gravity; Deadweight; Force; Geodetic pendulum; Gravity; Gravity meter; Potsdam system; **TN491. SP305-1.**

standard heat of formation; Structural parameters; Torsional mode; Vibrational fundamentals; Barrier height to internal rotation; Fluoroethanes with a symmetric top; Ideal gas thermodynamic functions; **J. Phys. Chem. Ref. Data 4, No. 2, 141-456 (1975). SP305-7.**

standard hole; Wringing; Capacitance probe; Cylindrical gauge blocks; Inside diameters; Small-bore tubes; **12277. SP305-3.**

standard hydrometer; Calibration; Density; Hydrometer; Hydrometer calibration; Reference hydrometer; Specific gravity; **J.73C Nos. 3 and 4, 57-65 (1969). SP305-1.**

standard in thermal analysis; Transition from I—III; Potassium nitrate; Procedure of ICTA Standards Committee and NBS; **4906. SP305-7.**

standard information codes; USASCII; ASCII; Character codes; Code extension; Coded character sets; Collating sequence; Computer codes; Data transmission codes; Information code structure; International information code; Russian code standard; **TN478. SP305-1.**

standard interior steel doors; Steel door frames, steel doors, interior; Interior steel doors; **PS4-66. SP305.**

standard lamps; Standards, fluorescence; Thermopiles; Actinometers; Calibration of spectrofluorometers; Detectors, absolute; Fluorescence spectra, corrected; Quantum counters;

Spectrofluorometers, design; Spectrofluorometry, absolute; **SP378, pp. 137-150. SP305-5.**

Standard lamps; Standards, fluorescence; Thermopiles; Actinometers; Calibration of spectrofluorometers; Detectors, absolute; Fluorescence spectra, corrected; Quantum counters; Spectrofluorometers, design; Spectrofluorometry, absolute; **J. 76A No. 6, 547-560 (1972). SP305-4.**

Standard material; Atomic absorption spectrometry; Magnesium gluconate; Serum magnesium; **14514. SP305-6.**

Standard materials; Standard reference materials; Standards; Certification; Certified reference materials; Materials; Meaningful measurements; Measurement; Reference materials; SRM's; **SP408. SP305-7.**

Standard materials; Trace element analysis; Errors of analysis; Homogenization; Neutron activation analysis; Sample preparation; **SP422, pp. 1293-1304 (Aug. 1976). SP305-8.**

Standard biotite; Biotite stoichiometry; Geochemical standards; Geochronological standards; K-Ar dating; Sampling a biotite; Sampling constants; **SP422, pp. 401-419 (Aug. 1976). SP305-8.**

Standard cell; Voltage reference; Cryogenic; Josephson junction; **16377. SP305-8.**

Standard cell comparator; Automated; Calculator; Calibration; Crossbar switch; Low-level voltage measurements; MIDAS; Programmable desk calculator; **15906. SP305-8.**

Standard cells; U.S. legal volt; Volt; Voltage measurement; Electrical standards; **16268. SP305-8.**

Standard deviation; Subdivision; Variance-covariance matrix; Angle standard; Autocollimator; Calibration; Complete closure design; Indexing table; Least squares estimation; Partial closure design; **NBSIR 75-750. SP305-8.**

Standard deviation; Uncertainty; Calibration; Diameter; Gravitational bending; Interferometry; Least squares line; Linear model; Optical flat; Profile; **NBSIR 75-975. SP305-8.**

Standard deviation; Uncertainty; Autocollimator; Calibration; Constant deviation prism; Geometrical model; Optical square; Pentaprism; Reflection; Refraction; **NBSIR 76-993. SP305-8.**

Standard enthalpy of formation; Vibrational fundamentals; Chlorofluoromethanes; Ideal gas thermodynamic functions; Principal moments of inertia; **JPCRD 5, No. 3, 571-580 (1976). SP305-8.**

Standard frequencies; Television color subcarrier; Time calibration; Time signals; Broadcast of standard frequencies; Frequency calibration; High frequency; Low frequency; **SP432. SP305-8.**

Standard materials; Trace elements; Accuracy; Biological materials; Data interpretation; **SP422, pp. 65-77 (Aug. 1976). SP305-8.**

Standard Metropolitan Statistical Areas; Computers; Data processing; Federal Information Processing Standards Publication; Representations and codes; **FIPS PUB 8-3. SP305-5.**

Standard Metropolitan Statistical Areas; Computers; Data processing; Federal Information Processing Standards Publication; Representations and codes; **FIPS PUB 8-2. SP305-4.**

Standard Metropolitan Statistical Areas; Computers; Data processing; Federal Information Processing Standards Publication; National government; Representations and codes; **FIPS PUB 8-1. SP305-3.**

Standard metropolitan statistical area; Data standard; Representations and codes; SMSA; **FIPS PUB 8. SP305-1.**

Standard Metropolitan Statistical Areas; Computers; Data processing; Federal Information Processing Standards Publication; Representations and codes; **FIPS PUB 8-4. SP305-6.**

Standard of dielectric constant; Standard reference materials; Dielectric constant standards; Fluorinated ethylene-propylene; Fluorinated polymers; Precise dielectric measurements; Standard dielectric; **10975. SP305-2.**

- Standard of power through 18 GHz; Bolometric power standards; Bolovac power measurements; Calibration of power meters; RF and microwave power measurements; *J.74C Nos. 3 and 4, 123-133 (1970). SP305-2.*
- Standard of spectral irradiance; Integrating sphere; Solar simulator; Spectroradiometer; 9256. **SP305.**
- Standard phosphor samples; Phosphors; Photo-excitation; Photoluminescence; Spectral emission; Spectral radiometry; *TN417. g02SP305-1.*
- Standard potential of standard cells; Thermodynamics of standard cells; Emfs of standard cells; Emf-temperature coefficients of standards cells; *J.76A No. 3, 185-205 (1972). SP305-4.*
- Standard, powder diffraction; Standard reference material, silicon; Powder diffraction standard, silicon; Silicon powder diffraction standard; 14905. **SP305-7.**
- Standard preparation; Al-Mg; Au-Si; Electron probe standards; Quantitative microanalysis; Sput cooling; 10350. **SP305-1.**
- Standard radio frequencies; Time and frequency; Worldwide radio stations; Atomic time; Frequency and time; International Time Bureau; Standard audio frequencies; 9537. **SP305-1.**
- Standard radio frequencies; Time-frequency broadcasts; Time signals; WWV; High frequency; *TN611. SP305-4.*
- Standard reference air traffic data; Users of air traffic data; Air traffic analyses; Air traffic data; *NBSIR 73-422. SP305-6.*
- Standard reference data; Analytical spectral data; Automated spectral data sources; Data centers; 14329. **SP305-6.**
- Standard reference data; Chemistry; Critical data; Evaluation of delay; Information analysis; Publication standards; 13283. **SP305-5.**
- Standard reference data; Critical evaluation; Information centers; Information services; NSRDS; Physical properties; 10318. **SP305-1.**
- Standard reference data; Critical evaluation; Information centers; Information services; NSRDS; Physical properties; 11572. **SP305-2.**
- Standard reference data; Data files; Data network; Data on-line; International data service; On-line data; Reference data service; 15266. **SP305-7.**
- Standard reference data; Solid state data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; Mechanical properties; Nuclear data; *TN747. SP305-4.*
- Standard reference data; Surface tension; Viscosity; Data compilation; Density; Electrical conductance; Molten salt mixtures; Nitrates; Nitrites; *J. Phys. Chem. Ref. Data 1, No. 3, 581-746 (1972). SP305-6.*
- Standard reference data; Surface tension; Viscosity; Data compilation; Density; Electrical conductance; Fluorides; Molten salt mixtures; *J. Phys. Chem. Ref. Data 3, No. 1, 1-115 (1974). SP305-6.*
- Standard reference data; Surface tension; Viscosity; Chlorides; Data compilation; Density; Electrical conductance; Molten salt mixtures; *J. Phys. Chem. Ref. Data 4, No. 4, 871-1178 (1975). SP305-7.*
- Standard reference data; Thermal conductivity; Critical evaluation; Gases; Graphites; Metallic elements; Metals; Recommended values; *NSRDS-NBS16, Part 2. SP305-1.*
- Standard reference data; Thermochemical tables; Enthalpy; Entropy; Gibbs energy; Heat capacity; Potassium compounds; Rubidium compounds; Sodium compounds; *NBSIR 76-1034. SP305-8.*
- Standard Reference Data; Thermocouples; 13572. **SP305-5.**
- Standard reference data; Thermocouples; Cryogenics; Gold alloys; 12618. **SP305-4.**
- Standard reference data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design and development; Information services; Mechanical properties; Nuclear data; Solid state data; *TN448. SP305-1.*
- Standard reference data; Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; Mechanical properties; Nuclear data; Solid state data; *TN553. SP305-2.*
- Standard reference data; Thermodynamic data, transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Mechanical properties; Nuclear data; Solid state data; *TN881. SP305-7.*
- Standard reference data; Viscosity; Data compilation; Density; Electrical conductance; Molten salts; *NSRDS-NBS15. SP305-1.*
- Standard reference data; 12096. **SP305-3.**
- Standard Reference Data Program; Well-defined, measurable properties; Data; 15301. **SP305-7.**
- Standard reference data system; Computer age; Data system; Materials research; Measurement challenge; Science and technology; Sea of data; *DIM/NBS 60/Suppl., Anniversary Issue, 1-32 (1976). SP305-8.*
- Standard Reference Material; Activation analysis; Biological Environment; Mercury; 12733. **SP305-4.**
- Standard Reference Material; Activation analysis; Biological Botanical; Environment; 12334. **SP305-3.**
- Standard reference material; Activation analysis; Cockcroft Walton neutron generator; LINAC; Radiochemical separations; Reactor; 11364. **SP305-2.**
- Standard reference material; Alpha tracks; Biological material image analyzing system; Lithium; Microscope; Nuclear track technique; 14244. **SP305-6.**
- Standard reference material; Analysis; Cobalt; Dowex 50-X8 EDTA; Iron; Nickel oxide; Radioisotopic dilution; 9876. **SP305-1.**
- Standard Reference Material; Analytical standard; Atomic absorption spectrometry; Differential cathode ray polarography Electrodeposition; Lead-based paint; Neutron activation analysis; X-ray fluorescence spectrometry; *SP260-45. SP305-5.*
- Standard reference material; Atomic fluorescence spectrometry; Automatic correction; Electrodeless discharge lamp; Light scatter; 13936. **SP305-6.**
- Standard Reference Material; Austenitic stainless steel; Electron probe microanalysis; Fe-Cr-Ni alloy; Homogeneity testing; Metallography; Stacking fault energy; *SP260-43. SP305-4.*
- Standard reference material; Austenitic stainless steel; Cryogenics; Electrical resistivity; Electrolytic iron; Lorenz ratio; *SP260-47. SP305-6.*
- Standard reference material; Fractionation; Linear polyethylene; Molecular weight; Molecular weight distribution; National Bureau of Standards; Pellet variability; *J.76A No. 2, 137-138 (1972). SP305-4.*
- Standard reference material; Primary standards; Standards 11511. **SP305-2.**
- Standard reference material; SRM 933; SRM 934; Thermometers; Clinical laboratory; Enzymology; Health care; 14311. **SP305-6.**
- Standard reference material; SRM 933; SRM 934; Thermometers; Clinical laboratory; Enzymology; Health care; Liquid-in-glass thermometers; *SP260-48. SP305-6.*
- Standard reference material; Standards; Analysis; Characterization; Composition; Property of material; *SP260, 1970 Edition. SP305-2.*
- Standard reference material; Steel; Alpha particles; Boron; Ion microprobe mass analyzer; Nuclear track technique; 15789. **SP305-8.**
- Standard reference material; Synthetic sapphire; Thermodynamic functions; Alumina; Aluminum oxide; Corundum

Drop calorimetry; Enthalpy; Heat capacity standard; Specific heat; *J.75A No. 5, 401-420 (1971).* **SP305-3.**

Standard reference material; Systematic error; Certification; Meaningful measurement; Measurement; Measurement system; Precision; Reference method; Specificity; SRM; *Monogr. 148.* **SP305-7.**

Standard reference material; Systematic errors; Accuracy; Accurate measurement system; Precision; Reference methods; *SP422, pp. 41-63 (Aug. 1976).* **SP305-8.**

Standard reference material; Statistics; Syndrome; Accuracy; Analytical chemistry; *SP422, pp. 123-126 (Aug. 1976).* **SP305-8.**

Standard reference material; THAM; TRIS; Tris(hydroxymethyl)aminomethane; Thermochemistry; Enthalpy of reaction; Heat of solution; Solution calorimetry; *J.77A No. 5, 581-597 (1973).* **SP305-5.**

Standard Reference Material; Thermal stability; Uranium; Fission track; Glass; Nuclear track technique; *13093.* **SP305-5.**

Standard reference material; Thermal expansion; Fused silica; *13209.* **SP305-5.**

Standard Reference Material; Thermal conductivity; Cryogenics; Electrical resistivity; Stainless steel; *SP260-35.* **SP305-4.**

Standard reference material; Thermal expansion; Components of error (within and between samples); Copper; Interferometer; *12036.* **SP305-3.**

Standard reference material; Thermal expansion; Borosilicate glass; Dilatometer calibration; *14586.* **SP305-6.**

Standard reference material; Thermal neutron irradiation; Uranium; Fission tracks; Flux monitors; Glass standards; *SP260-49.* **SP305-6.**

Standard reference material; Thermal conductivity; Transport properties; Tungsten; Cryogenics; Electrical resistivity; Lorenz ratio; Seebeck effect; *NBSIR 73-351.* **SP305-6.**

Standard reference material; Thermal conductivity; Thermopower; Electrical resistivity; Electrolytic iron; High temperature; Iron; Lorenz ratio; Low temperature; *SP260-50.* **SP305-7.**

Standard Reference Material; Thermocouple; Cryogenics; Seebeck voltage; Silver-gold alloy; *SP260-34.* **SP305-4.**

Standard Reference Material; Tissue standard; Trace analysis; Biological standards; Blood standard; Botanical standards; Environmental samples; *12132.* **SP305-3.**

Standard reference material; Trace element; Water standard; Mercury; Stabilization; *15458.* **SP305-7.**

Standard reference material; Tris(hydroxymethyl)aminomethane; Thermochemistry; Enthalpy of reaction; Solution calorimetry; *J.77A No. 5, 599-606 (1973).* **SP305-5.**

Standard reference material; Unrecorded references; Cassette tapes; Cassette transport; Computer amplitude reference; Magnetic tape cassette; Secondary standard; *TN731.* **SP305-4.**

Standard reference material; Viscosity; Weight average molecular weight; Z average molecular weight; Density; Differential refractive index; Gel permeation chromatography (GPC); Light scattering; Linear polyethylene; Melt flow rate; *SP260-42.* **SP305-4.**

Standard reference material; Viscosity; Viscosity standard; Beam bending; Fiber elongation; Glass; Glass standard; Glass viscosity; Lead-silica glass; Restrained sphere; Rotating cylinders; Standard; *M260-11.* **SP305.**

Standard reference material; Viscosity; Viscosity standard; Beam-bending; Fiber-elongation; Fulcher equation; Glass viscosity; *J.78A No. 3, 323-329 (1974).* **SP305-6.**

Standard reference material; Viscosity; Viscosity standard; Beam-bending; Borosilicate glass; Glass viscosity; Parallel-plate; Rotating cylinder; *SP260-23.* **SP305-2.**

Standard reference material; Water pollution; Air pollution; Measurement; *TN828.* **SP305-6.**

Standard reference material; Young's modulus; Alumina; Elastic modulus; Resonance frequency; Shear modulus; *J.77A No. 4, 391-394 (1973).* **SP305-5.**

Standard reference material; Young's modulus; Alumina; Elastic modulus; Resonance frequency; Shear modulus; *J.75A No. 3, 155-162 (1971).* **SP305-3.**

Standard reference material for calorimetry; Calorimetry, flow; Calorimetry, solution; Chlorine monofluoride; Fluorine dissociation; Hydrofluoric acid solution calorimetry; Microcalorimetry; Quartz, standard reference materials; *13280.* **SP305-5.**

Standard Reference Material for oxygen; Inert gas fusion; One ppm of oxygen and nitrogen in steel; Research Associate Program; Simultaneous determination of oxygen and nitrogen; *SP260-26.* **SP305-3.**

Standard reference material in spectrophotometry; Transmittance; Absorbance; Automation of accurate spectrophotometer; Instrumentation, spectrophotometric; Spectrophotometry, high accuracy; *SP378, pp. 31-51.* **SP305-5.**

Standard reference material in spectrophotometry; Transmittance; Absorbance; Automation of accurate spectrophotometer; Instrumentation, spectrophotometric; Spectrophotometry, high accuracy; *J.76A No. 5, 405-425 (1972).* **SP305-4.**

Standard reference material, silicon; Powder diffraction standard, silicon; Silicon powder diffraction standard; Standard, powder diffraction; *14905.* **SP305-7.**

Standard Reference Material 705; Characterized polymers; Narrow molecular weight polystyrene; Polystyrene standard; *SP260-33.* **SP305-4.**

Standard Reference Materials; Absorptivity data; Accuracy; Liquid absorbance standards; *SP378, pp. 95-108.* **SP305-5.**

Standard Reference Materials; Absorptivity data; Liquid absorbance standards; *J.76A No. 5, 469-482 (1972).* **SP305-4.**

Standard reference materials; Accuracy; Analysis; Clinical chemistry; Measurement; Precision; Reference methods; Specificity; *14209.* **SP305-6.**

Standard reference materials; Activation analysis; Cockcroft-Walton neutron generator; Computer programming; NBS LINAC; NBS reactor; *TN548.* **SP305-2.**

Standard Reference Materials; Air pollution; *14289.* **SP305-6.**

Standard Reference Materials; Air pollution; Chemical analysis; *TN840.* **SP305-6.**

Standard Reference Materials; Analysis; Characterization, composition; General Materials; Properties; Research Materials; *SP260, 1973 Edition.* **SP305-5.**

Standard Reference Materials; Analysis; Characterization; Composition; General Materials; Properties; Research Materials; *SP260, 1975-76 Edition.* **SP305-7.**

Standard Reference Materials; Atomic absorption; Ceramics; Classical procedures; Clay materials; Flame emission; Refractories; *SP260-37.* **SP305-4.**

Standard reference materials; Automated analysis; Clinical chemistry; Instrumentation; *12047.* **SP305-3.**

Standard Reference Materials; Bovine liver, cellulose nitrate; Image analyzing system; Microscope; Neutron activation analysis; Nitrogen; Orchard leaves; Proton tracks; *14243.* **SP305-6.**

Standard reference materials; Bovine liver, cellulose nitrate; Image analyzing system; Microscope; Neutron activation analysis; Nitrogen; Orchard leaves; Proton tracks; *14705.* **SP305-6.**

Standard reference materials; Characterizing materials; Measurement compatibility; *11668.* **SP305-2.**

Standard reference materials; Clinical standards; Standardization, spectrofluorometric; Standardization, spectrophotometric; *J.76A No. 5, 491-498 (1972).* **SP305-4.**

Standard reference materials; Clinical analysis; Reference methods for clinical analysis; *12771.* **SP305-4.**

- Standard Reference Materials; Clinical; Measurement; Medicine; *11486. SP305-2.*
- Standard reference materials; Clinical; Measurement; Medicine; *11220. SP305-2.*
- Standard reference materials; Dielectric constant standards; Fluorinated ethylene-propylene; Fluorinated polymers; Precise dielectric measurements; Standard dielectric; Standard of dielectric constant; *10975. SP305-2.*
- Standard Reference Materials; Fe-35Si alloy; Homogeneity testing; Metallography; Microprobe analysis; Spectrometric analysis; *SP260-22. SP305-3.*
- Standard reference materials; Flameless atomic absorption; Liver and coal; Loss of mercury; Mercury in orchard leaves; *13191. SP305-5.*
- Standard reference materials; Flameless atomic absorption; Liver and coal; Loss of mercury; Mercury in orchard leaves; *14537. SP305-6.*
- Standard reference materials; Neutron cross sections; Neutron measurement standards; Neutron radiation fields; Neutron sources; *10661. SP305-1.*
- Standard reference materials; Spectrophotometry SRMs; Clinical chemistry; Organic SRMs; *12194. SP305-3.*
- Standard reference materials; SRM's; Standard Reference Materials Program; Agriculture; Air and water pollution; Biology; Botany; Health and medicine; Instrument calibration; Metrology; Research materials; *12349. SP305-3.*
- Standard reference materials; Standardization, spectrofluorometric; Standardization, spectrophotometric; Clinical standards; *SP378, pp. 117-124. SP305-5.*
- Standard reference materials; Standard samples; USSR standards; Standards in Russia; *SP260-30. SP305-3.*
- Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; Price list; Property of material; Purity of material; *M260, 1967 Edition. SP305.*
- Standard reference materials; Standard reference polymers; Gel permeation chromatograph calibration; Limiting viscosity number; Molecular weight; Molecular weight distribution; Polyethylene standard; Polystyrene standard; *14036. SP305-6.*
- Standard reference materials; Steels; Neutron generator activation analysis; Organometallics; Oxygen; *11649. SP305-2.*
- Standard reference materials; Steel analysis; Target current scanning; Trace analysis; X-ray absorptiometry; X-ray fluorescence analysis; X-ray scans; Analytical curve functions; Color composite; Computer programs; Electron probe; Gold analysis; *TN502. SP305-2.*
- Standard reference materials; Structure analysis; Calculations; Conversion electrons; Counting statistics; Cross sections; Cryostats; Electric field gradient tensor; Electronics; Gas analysis; Heterogeneity; Interferometric; Internal magnetic field; *TN501. SP305-2.*
- Standard reference materials; Sulfur dioxide; Air pollution; Carbon monoxide; Hydrocarbons; Nitrogen oxide; Ozone; Particulates; *TN711. SP305-4.*
- Standard Reference Materials; Temperature; Thermal; Ceramics; Chemical composition; Mechanical properties; Pressure; Properties; Standards; *12181. SP305-3.*
- Standard reference materials; Tetracycline; Activation analysis; Ancient stained glass; Carbon; Cockcroft-Walton neutron generator; Coincidence spectrometer; Group separations; Homogeneity testing; Hydrated antimony pentoxide; NBS LINAC; NBS reactor; *TN508. SP305-2.*
- Standard reference materials; Thallium; Thorium; Uranium; Isotope dilution; Lead; Mass spectrometry; Silicate glass standard materials; *13313. SP305-5.*
- Standard Reference Materials; Thermal expansion; Tungsten; *13380. SP305-5.*
- Standard Reference Materials; Acidity; Coulometric analysis; Electrochemical analysis; Ionic activity; Ion-selective electrodes; PH measurements; Polarography; Potentiometry; *TN583. SP305-5.*
- Standard reference materials; Thermal expansion; Platinum; *12503. SP305-4.*
- Standard reference materials; Thermal ionization; Isotope dilution; Isotopes; Mass spectrometry; Molybdenum; Nickel; Normalization; *14904. SP305-7.*
- Standard reference materials; Aircraft; Air pollution; Automobile; *14926. SP305-7.*
- Standard Reference Materials; Measurement; Measurement compatibility; Reference methods; *15263. SP305-7.*
- Standard reference materials; Clinical chemistry; *153. SP305-7.*
- Standard reference materials; Accuracy; Clinical chemistry; Measurement; Reference methods; *15496. SP305-7.*
- Standard reference materials; Thermal conductivity; Austenitic stainless steel; Electrical resistivity; High temperature; Low temperature; *SP260-46. SP305-7.*
- Standard reference materials; Stray radiation; Testing of spectrophotometers; Transmittance (absorbance) accuracy; Wavelength accuracy; Accuracy in spectrophotometry; Gratings; Filters; Spectral bandpass; Spectrophotometry; *SP260-47. SP305-7.*
- Standard reference materials; Thermal conductivity; Thermopower; Tungsten; Electrical resistivity; High temperature; Lorenz ratio; Low temperature; *SP260-52. SP305-7.*
- Standard reference materials; Standards; Certification; Certified reference materials; Materials; Meaningful measurements; Measurement; Reference materials; SRM's; Standard materials; *SP408. SP305-7.*
- Standard reference materials; Time-shared computer; X-ray spectroscopy; Analysis; Arc temperature; Atomic absorption spectrometry; Analog computer; Bibliography; Computer; Electrodeposition; Electron back scatter; Electron probe microanalyzer; *TN401. SP305.*
- Standard reference materials; Photo-neutron reactions; Fission monitors; Cu, Se, Al, V in irons and steels; Homogeneity testing; Pneumatic rabbit sensor; Mossbauer spectroscopy; Tin standard for chemical shift; PARLORS program for Mossbauer spectra; *TN404. SP305.*
- Standard reference materials; Tin standard for chemical shift; Computers; Cross sections; Detection limits for analysis; Fission monitors; Mossbauer instrumentation; Mossbauer spectroscopy; NBS Linac; Nickel-61; PARLORS program for Mossbauer spectra; *TN421. SP305.*
- Standard reference materials; Trace metals; Analyses; Cathodic ray polarography; Environmental analyses; *12796. SP305-4.*
- Standard Reference Materials; Trace; Accuracy; Activation Analysis; Decay curve resolution; Gamma-ray attenuation; Geometrical location; Neutron; Neutron self-shielding; Precision; Similar gamma-ray energy; *10078. SP305-1.*
- Standard reference materials; Acidity; Analysis; Conductivity; Electrochemical analysis; Electrochemistry of solutions; Ionic activity; Ion-selective electrodes; PD measurements; PH measurements; Medium effects; Solvent effect; *TN503. SP305.*
- Standard reference materials; Atomic absorption and atomic fluorescence spectrometry; Differential thermal analysis; Flame emission; Gases in metals; Gravimetry and titrimetry; Spectrophotometry and spectrofluorimetry; *TN454. SP305-4.*
- Standard reference materials; Backscatter geometry; Computer programs for Mossbauer spectroscopy; Computers; Corrosion products; Counting statistics; Cross sections; Detection limits for analysis; Electric field gradient tensors; Flux monitors; *TN451. SP305-1.*
- Standard reference materials; Iron and its compounds; Mossbauer spectrometry; Spectrometry-Mossbauer; *104. SP305-1.*



Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; Price list; Property of material; Purity of material; *M260, 1968 Edition. SP305-1.*

Standard reference materials; Standards; Analysis; Catalog; Certificate; Characterization; Composition; Price list; Property of material; Purity of material; *SP260, July 1969 Edition. SP305-1.*

Standard reference materials; Sucrose; Sulfonic Ka measurements; Urea; Uric acid; Acetylation; Analysis of corn syrups; Carbohydrate structure and characterization; Cholesterol; Clinical chemistry; Creatinine; *TN457. SP305-1.*

Standard reference materials; Sulfur analysis; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; Vacuum spectrometer; Computing; Digital readout; Electron probe; Gold analysis; Isotope dilution method; Laser probe; *TN422. SP305-1.*

Standard reference materials; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; X-ray mass attenuation coefficients; Zinc analysis; Computing; Digital readout; Electron probe; Emulsion calibration; Emulsion sensitivity; *TN452. SP305-1.*

Standard Reference Materials; Trace element analysis; Accuracy limits; Activation analysis; Activation spectrometry; Analytical chemistry; Measurement biases; Ppb; Ppm; Real samples; *14425. SP305-6.*

Standard reference materials; Trace elements; Biological; Bovine liver; Orchard leaves; *14715. SP305-6.*

Standard reference materials; Transmittance characteristics; Ultraviolet-visible filters; Evaporated metal-on-quartz; Filters; Transmittance; Neutral filters; *J. Res. 80A No. 4, 637-641 (1976). SP305-8.*

Standard reference materials; Thermophysical properties symposium; Waste heat; Computer; Consumer; Drugs; Electrical pulses; Environmental standards; Friction measurement; Lead poisoning; LNG data; Optical; *DIM/NBS 60, No. 9, 1-24 (1976). SP305-8.*

Standard reference materials; Trace elements; Analytical methods; Coal; Environmental samples; Environmental standards; Fly ash; Instrumental neutron activation analysis (INAA); Instrumental photon activation analysis (IPAA); *SP422, pp. 211-223 (Aug. 1976). SP305-8.*

Standard Reference Materials; Atomic absorption spectrometry; Nonflame graphite furnace; Sensitivity vs. precision and accuracy; *SP422, pp. 1045-1051 (Aug. 1976). SP305-8.*

Standard reference materials; Coal; Energy; Fuel; Graphite; Hydrocarbons; Metering; Methane; Natural gas; Petroleum; Physical properties; *SP434. SP305-8.*

Standard reference materials; Ultraviolet; UV achromats; Visible; Averaging sphere; Deuterium arc lamp; Fluorescent wavelength converter; Grating; Spectrophotometry; *J.78A No. 5, 631-636 (1974). SP305-6.*

Standard reference materials; Unrecorded reference; Average signal peak level; Computer amplitude reference; Magnetic tape; Master standard; Saturation curves; Secondary standard; Signal level calibration; *SP260-29. SP305-3.*

Standard reference materials; Unrecorded reference; Average signal peak level; Computer amplitude reference; Magnetic tape; Master standard; Saturation curves; Secondary standard; Signal level calibration; *SP260-18. SP305-1.*

Standard reference materials; Vapor pressure; Cadmium; Components of error (within- and between-laboratory); Heats of sublimation (second and third law); Interlaboratory measurements; Silver; Standard errors; *SP260-21. SP305-3.*

Standard reference materials; Vapor pressure; Components of error (within- and between-laboratories); Gold; Heats of sublimation (second and third law); Interlaboratory measurements; Standard errors; *SP260-19. SP305-2.*

Standard Reference Materials; VMA; Bilirubin; Cholesterol; Cortisol; E.s.r.; D-mannitol; NADH; N.m.r.; Purity; SRM; *TN587. SP305-4.*

Standard Reference Materials; W-Mo alloys; Electron probe analysis; Metallography; Powder metallurgy; Spectrometric standards; *SP260-16. SP305-1.*

Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electron probe; Microanalysis; Optical spectrometry; Pre-concentration techniques; Spectrochemical analysis; *TN582. SP305-4.*

Standard reference materials; X-ray emission; Alloys; Corrections; Electron probe; Homogeneity; Matrix scanner; Microanalysis; Quantitative analysis; *SP260-28. SP305-3.*

Standard reference materials; X-ray calibration; X-ray measurements; *14512. SP305-6.*

Standard reference materials; X-ray fluorescence; Corrections; Matrix effects; *15983. SP305-8.*

Standard Reference Materials; Definitive method; Matrix reference materials; Pure reference materials; Reference methods; Routine methods; Secondary reference materials; *16104. SP305-8.*

Standard reference materials; Accelerated testing; Clinical; Hazards; Legal problem packaging; Shipping; Stability; *16110. SP305-8.*

Standard reference materials; Air and water quality; Energy; Pollutants; *16157. SP305-8.*

Standard reference materials; Argon; Calibration; Detector; radioactive argon; Ionization chamber; Sodium-22; *16325. SP305-8.*

Standard reference materials; Fine particle standards; Particle concentration; Particle counting; Particle size; Particulates; *16337. SP305-8.*

Standard reference materials; Thermal conductivity; Austenitic stainless steel; Electrical resistivity; High temperature; Low temperature; *16494. SP305-8.*

Standard reference materials; Standard Reference Materials program; Accuracy; Measurement; Measurement compatibility; National Bureau of Standards; Reference materials; *16549. SP305-8.*

Standard reference materials; Zinc; Activation analysis; Cockcroft-Walton neutron generator; Computer literature searching; Extraction; Group separations; Homogeneity testing; Hydrogen bis(2-ethylhexyl) phosphate; Matrix effect; Molybdenum; *TN458. SP305-1.*

Standard reference materials; 1,2-O-isopropylidene- $\beta$ -L-idofuranose; 2,3-O-isopropylidene- $\beta$ -D-threo-pentulofuranose; Air pollution studies; Characterization of chemical structures; Disaccharide of d-lyxofuranose; *TN427. SP305.*

Standard reference materials; Vanadium in irons and steels; Activation analysis; Biological; Botanical samples; Carbon in sodium; Cockcroft-Walton generator; Digital computers; Flux monitors; High precision 14 MeV neutron activation; Homogeneity testing; Instrumentation; NBS LINAC; NBS reactor; Photoneutron reactions; Self-absorption corrections; *TN428. SP305.*

Standard reference materials; 41g and selenium 726; Arsenic; Atomic absorption; Electrodeless; Extraction-displacement reaction; *11399. SP305-2.*

Standard reference materials; Acidity; Conductivity; Coulometric analysis; Electrochemical analysis; Ionic activity; Ion-selective electrodes; PH measurements; Potentiometry; *TN543. SP305-2.*

Standard reference materials; X-ray fluorescence analysis; Analysis; Computer program; Electron probe; Microanalysis; Optical spectrometry; Pre-concentration techniques; Spectrochemical analysis; *TN542. SP305-2.*

Standard reference materials; Uric acid; VMA; 'Azobilirubin'; Bilirubin;  $\beta$ -NAD;  $\beta$ -NADH; Cholesterol; Cortisol; D-mannitol; Electron spin resonance; Proton magnetic resonance; Skew conformations; *TN547. SP305-2.*

- Standard reference materials, analysis of; Stoichiometry; Atomic weights; Coulometric analysis; Gas analysis; Mass spectrometric gas analysis; Microchemical analysis; Polarographic analysis; *TN403*. **SP305**.
- Standard reference materials, analysis; Coulometric analysis; Gas analysis; Mass spectrometric gas analysis; Microchemical analysis; Null-point potentiometry; Polarographic analysis; *TN425*. **SP305**.
- Standard reference materials for calorimetry; Thermochemistry; Thermodynamic data; Calorimetry; Microcalorimetry of biological processes; *13980*. **SP305-6**.
- Standard reference materials for clinical chemistry; Standards; Clinical chemistry; Clinical standards; Diagnostic kits; Diagnostic material; *14709*. **SP305-6**.
- Standard reference materials in fluorometry; Absolute fluorometry; Absolute fluorometry in biochemistry; *SP378*, pp. 183-196. **SP305-5**.
- Standard reference materials in fluorometry; Absolute fluorometry; Absolute fluorometry in biochemistry; *J.76A No. 6*, 593-606 (1972). **SP305-4**.
- Standard Reference Materials NBS 758, 759, 760; Temperature scale; Thermal analysis; DTA; International Confederation on Thermal Analysis; International cooperative testing; *SP260-40*. **SP305-4**.
- Standard Reference Materials Program; Agriculture; Air and water pollution; Biology; Botany; Health and medicine; Instrument calibration; Metrology; Research materials; Standard reference materials; SRM's; *12349*. **SP305-3**.
- Standard Reference Materials program; Accuracy; Measurement; Measurement compatibility; National Bureau of Standards; Reference materials; Standard reference materials; *16549*. **SP305-8**.
- Standard reference polymer; Enthalpy; Heat of combustion; Heat of crystallization; Heat of formation; Polymer; *J.78A No. 5*, 611-616 (1974). **SP305-6**.
- Standard reference polymers; Gel permeation chromatograph calibration; Limiting viscosity number; Molecular weight; Molecular weight distribution; Polyethylene standard; Polystyrene standard; Standard reference materials; *14036*. **SP305-6**.
- Standard reference sample; X-ray analysis; Calibration; Filters; Orchard leaves; *16065*. **SP305-8**.
- Standard reference substances; Symbols; Terminology; Definitions; Heat constants; Heat units; Methods of calorimetry; *10960*. **SP305-2**.
- Standard Reference Surface; Unrecorded disk surface; Calibration factor; Computer amplitude reference; Computer storage media; Disk calibration; Disk pack; Magnetic disk; *TN884*. **SP305-7**.
- Standard resistance thermometers; Temperature; Vapor pressure; Vapor pressure of water; Water; Manometer; Precision manometer; Pressure;  $p$ - $t$  relation;  $p$ - $t$  relation of water; *J.73A No. 5*, 493-496 (1969). **SP305-1**.
- Standard resistor; Voltage balance; Ampere-turn balance; Flux balance; *12515*. **SP305-4**.
- Standard sample; Steel; Electron conversion; Mössbauer; Retained austenite; *12902*. **SP305-4**.
- Standard sample; Steel; Electron conversion; Mössbauer; Retained austenite; *14486*. **SP305-6**.
- Standard sample; Streaming birefringence; Molecular weight distribution; Normal stress; Polystyrene solutions; *14128*. **SP305-6**.
- Standard sample; Volatile content; Ash content; Elemental analysis; Homogeneity; Lithium content; Molecular weights; Polymer; Preparation; Purity; Sampling; *J.71A1-435*, 43-47 (1967). **SP305**.
- Standard samples; USSR standards; Standards in Russia; Standard reference materials; *SP260-30*. **SP305-3**.
- Standard samples for chemistry; Calorimetric instruments and procedures; Calorimetric measurements; Calorimetry; Calorimetry to thermodynamics; *10620*. **SP305-1**.
- Standard Sea Water; Conductance; Conductivity; Extrapolation; Faradaic process; Frequency extrapolation; Palladium black; Platinum, polarization; Polarization electrode; *14360*. **SP305-6**.
- Standard sieve; Abrasive grain; Accumulation curve; Coal; abrasive products; Grain, abrasive; Micron; Overgrade; Sedimentation; Sieve; *P58-67*. **SP305**.
- Standard sizes; Thickness; Tolerances; Blackboards; Dimensions; Natural markings; Slabs; Slate; *P52-66*. **SP305**.
- Standard solutions; Stock solutions; Atomic absorption spectrometry; Flame emission spectrometry; *12490*. **SP305-4**.
- Standard source; Synchrotron radiation; Vacuum ultraviolet; Radiances; Radiometry; Spectrometer calibration; *J.79A No. 6*, 761-774 (1975). **SP305-7**.
- Standard terminology; Flux sensitive resistors; Galvanomagnetic devices; Hall effect; Magneto resistors; Photoresistors; *10034*. **SP305-1**.
- Standard terminology; Galvanomagnetic device; Hall effect device; Hall element; Magnetoresistive device; Magnetoresistor; *10034*. **SP305-1**.
- Standard test; Thermal performance; Thermal storage; Thermal test; Solar energy; Standard; *NBSIR 74-634*. **SP305-7**.
- Standard test; Thermal performance; Solar collector; Solar energy; Solar radiation; Standard; *NBSIR 74-635*. **SP305-7**.
- Standard test; Thermal performance; Thermal storage; Solar collector; Solar energy; Solar radiation; Standard; *TN89*. **SP305-8**.
- Standard test methods; Aging test; Building elements and materials; Degradation factors; Durability; Property measurement test; *NBSIR 75-955*. **SP305-8**.
- Standard test procedures for sound power measurement; Compressors; Error of sound power measurement; Noise measurement; Sound power level; *NBSIR 75-65*. **SP305-7**.
- Standard tests; Structure, testing; Building; Connections; Hoisting; Neoprene; Performance criteria; Performance evaluation; Performance testing; Reinforced concrete; *TN706*. **SP305-4**.
- Standard thermocouple; Temperature scale; Freezing point; Gold point; High temperature; Platinum resistance thermometer; *13571*. **SP305-5**.
- Standard time; Time; USNO; Astronomical time; Atomic time; Frequency; International atomic time; Management; *NBSIR 13062*. **SP305-5**.
- Standard time; Time; USNO; Astronomical time; Atomic time; Frequency; International Atomic Time; Management; *NBSIR 14265*. **SP305-6**.
- Standard time broadcasts; VLF propagation; Worldwide clock synchronization; Multiple VLF transmissions; Portable clock; *9711*. **SP305-1**.
- Standard time scales; Atomic frequency standards; Atomic time; Cesium atomic beam; Frequency and time standard; Standards; *9387*. **SP305**.
- Standard values; Surface active agents; Surface chemistry; Surface tension; Surfactant; Association colloid; Bibliography; CMC; Colloid; Colloidal electrolyte; Critical concentration; Critical micelle concentration; Detergent; *NSRDS-NBS3*. **SP305-3**.
- Standard values; Temperature coefficient; Aluminum conductor; Aluminum wire cables; Conversion factors; Electric conductivity; Electrical conductor; Electrical resistivity; *H109*. **SP305-4**.
- Standard waveforms; Lossy uniform transmission lines; Oscilloscope errors; Pulse generators; *12045*. **SP305-3**.
- Standard wavelengths; Calculated wavelengths; Energy level; Krypton 86; *11542*. **SP305-2**.
- Standard wavelengths; Transition probabilities of spectral lines; Wavelength standards; *9952*. **SP305-1**.

standard wavelengths; Vacuum ultraviolet; Optical spectra, atomic; Reference wavelengths; *J. Phys. Chem. Ref. Data* 3, No. 4, 825-896 (1974). **SP305-6.**

standard-antenna calibration method; Standard-field calibration method; Calibration of field-strength meters; Electric-field-strength standards; Magnetic-field-strength standards; Near-zone electric-field-strength standards; 9761. **SP305-1.**

standard-field calibration method; Calibration of field-strength meters; Electric-field-strength standards; Magnetic-field-strength standards; Near-zone electric-field-strength standards; Standard-antenna calibration method; 9761. **SP305-1.**

standardization; Accuracy; Accurate measurement in clinical chemistry; Clinical chemistry; Clinical reference materials; 15573. **SP305-7.**

standardization; Acidity; Glass electrode; Indicators; PH; 10731. **SP305-1.**

standardization; Acidity; Glass electrode; Indicators; PH; 11248. **SP305-2.**

standardization; AID; Assistance; Economics; Foreign relations; Industrializing nations; LDC's; Measurement services; 13794. **SP305-5.**

standardization; AID; Assistance; Economics; Foreign relations; Industrializing nations; LDC's; Measurement services; *NBSIR* 74-550. **SP305-6.**

standardization; AID; Assistance; Economics; Foreign relations; Industrializing nations; LDC's; Measurement services; OAS; *NBSIR* 75-769. **SP305-7.**

standardization; Building components design; Building procedures; Contracting procedures; Performance specifications; Properties of building materials; *SP361*, Vol. 1, pp. 289-296. **SP305-4.**

standardization; Calibration; Cavity ionization chamber; Cesium-137; Exposure rate; Scattered radiation; *J.74A* No. 1, 1-6 (1970). **SP305-2.**

standardization; Codes; Data; Data elements; Data management; Data standardization; Information; Information management; 11191. **SP305-2.**

standardization; Coincidence counting; Gamma rays; Ground state decay; Radioactivity; Selenium-75; 15846. **SP305-8.**

standardization; Communications; Consumer information; 13055. **SP305-4.**

standardization; Crystal structure; Differential chemical shift; Mossbauer spectroscopy; Quadrupole splitting; Sodium nitroprusside; 9238. **SP305.**

standardization; Densitometry; NBS; Photography; 9907. **SP305-1.**

standardization; Experimental incentive program; Metrication; Technology; 13050. **SP305-4.**

standardization; New technology; Performance standards; Product standards; 12245. **SP305-3.**

standardization; Standards; Company; Information; 13492. **SP305-5.**

standardization; Standards; Information sources; KWIC Index; Plant engineering; Product standards; Specifications; 12804. **SP305-4.**

standardization; Standards; Interlaboratory testing; International standards; 14204. **SP305-6.**

standardization; Survey; AID; Development assistance; Economics; Ecuador; Less developed countries; Measurement services; Review; *NBSIR* 75-785. **SP305-7.**

standardization; Survey; Korea; AID; Assistance; Economics; LDC's (less developed countries); Measurement services; 13608. **SP305-5.**

standardization; Survey; Turkey; AID; Assistance; Economics; LDC's (less developed countries); Measurement services; 13476. **SP305-5.**

standardization; Temperature measurement; Thermocouples; Thermometry; Base-metal thermocouples; Cryogenic thermocouples; Noble-metal thermocouples; Nonstandardized

thermocouples; Refractory metal thermocouples; 15517. **SP305-7.**

Standardization; Tentative standards; Building codes; Industrialization; Less-developed country; SASO; Saudi Arabia; *NBSIR* 75-976. **SP305-8.**

Standardization; Test methods; Walls; Building construction; Complete buildings; Floors; Roofs; *B5358*. **SP305-6.**

Standardization; Testing; Basic and applied research; Calibration; Instrumentation; Interchangeability of parts; Mass production; 9350. **SP305.**

Standardization; Testing facilities; Building technology; Information handling; Measurement services; Philippines; *NBSIR* 76-1083. **SP305-8.**

Standardization; Testing facilities; Bolivia; Measurements; Quality control; *NBSIR* 76-1099. **SP305-8.**

Standardization; Tissue characterization; Ultrasound; Blood; Cross-section; Diagnosis; Scattering; *SP453*, pp. 29-47 (Oct. 1976). **SP305-8.**

Standardization; United Soviet Socialist Republics; Building economics; Building systems; Construction industry; Housing; Precast concrete; Production capacity; Production management; Production methods; *SP334*. **SP305-3.**

Standardization; Units; Chemical kinetics; Guidelines; Recommended procedures for reporting data; *NBSIR* 74-537. **SP305-6.**

Standardization; User protocols; Network access procedures; Networking; *TN799*. **SP305-5.**

Standardization; Voluntary standards system; Engineering standards; 13052. **SP305-4.**

Standardization; Vulcanization; Cure meter; Mooney viscometer; Oscillating-disk cure meter; Processability; Rubber testing; 14431. **SP305-6.**

Standardization; Well crystal counting; Cadmium-109; Cobalt-57; Gamma-ray emission rate; Iron-57; Photoelectron escape; Silver-109m; 12885. **SP305-4.**

Standardization; Acidity; Glass electrode; Indicators; PH; 12482. **SP305-4.**

Standardization; <sup>199</sup>Ir; Beta; Coincidence counting; Gamma; Radioactivity; 16259. **SP305-8.**

Standardization activities; Standards; States—standardization activities; Test methods; Codes; Consensus system; Directory; Federal Government—standardization; Industry standards activities; National standards activities; Recommended practices; Specifications; *SP417*. **SP305-7.**

Standardization activities, U. S.; Standards; Test methods; Certification and labeling plans; Government standardization, U. S.; Specifications; *M288*. **SP305.**

Standardization and measurement; Time and frequency; Appliance labeling; Avogadro constant; Biomolecules; Computers; Energy; EPIC; Ground ladders; Metrology guides; Sales seminars; *DIM/NBS* 58, No. 10, 217-239 (1974). **SP305-6.**

Standardization process; Voluntary standardization; Engineering standards; 13051. **SP305-4.**

Standardization, spectrofluorometric; Standardization, spectrophotometric; Clinical standards; Standard reference materials; *SP378*, pp. 117-124. **SP305-5.**

Standardization, spectrofluorometric; Standardization, spectrophotometric; Standard reference materials; Clinical standards; *J.76A* No. 5, 491-498 (1972). **SP305-4.**

Standardization, spectrophotometric; Clinical standards; Standard reference materials; Standardization, spectrofluorometric; *SP378*, pp. 117-124. **SP305-5.**

Standardization, spectrophotometric; Standard reference materials; Clinical standards; Standardization, spectrofluorometric; *J.76A* No. 5, 491-498 (1972). **SP305-4.**

Standardized fonts; U.S.S.R.; Western Europe; Optical character; Pattern recognition; Recognition; Research; Speaker identification; Speech recognition; 11142. **SP305-2.**

Standardized testing; Test methods; Accelerated laboratory tests; Double-glazed window units; Factory-sealed insulating glass units; Field performance tests, correlation with laboratory tests; Sealant performance; *BSS20*. **SP305-2.**

Standards; Acceptance of risk; Consumer product safety; Perception; Risk-benefit analysis; *14664*. **SP305-6.**

Standards; Accidents; Burn injuries; Case histories; Children's sleepwear; Fabric fires; FFACTS; Fires; Flammable fabrics; Garment fires; Ignition sources; *TN815*. **SP305-6.**

Standards; Accidents; Children; Clothing; Fabrics; Flammability; Sleepwear; *14291*. **SP305-6.**

Standards; Accuracy; Critical parameters; Instrumentation; Linearity; Quantum efficiency; Spectrofluorometry; Spectrophotometry; *SP378*. **SP305-5.**

Standards; Action; Communication; Conspicuity; Controlled environment; Effectiveness; Flashing lights; Guidelines; Information; Laboratory testing; People; Response; Sirens; *13516*. **SP305-5.**

Standards; Activity standards; Clinical pH; Electrodes; Ion-selective electrodes; PH; Potassium chloride; Sodium chloride; *12695*. **SP305-4.**

Standards; Adapters; Capacitance; Capacitors; Detectors; Generators; Impedance instruments; Impedance standards; Inductance; Inductors; Measurement methods; Reactance; Resistance; Resistor; *Monogr. 141*. **SP305-6.**

Standards; Adhesive industrial; Characteristics; Conductive; Flooring; Installation; *9177*. **SP305.**

Standards; ADP standards; Computers; Data processing, Federal Information Processing Standards; Metric conversion; SI units; *FIPS PUB 34*. **SP305-7.**

Standards; Aerospace; Applications; Materials structure analysis; Mössbauer effect; Spectrometer; *9672*. **SP305-1.**

Standards; Air pollution; Analyzing; Gas analysis; Gases; Emission; Monitors; *15982*. **SP305-8.**

Standards; Air pollution; Calibration; Evaluation; Inter-calibration; Quality control; *15978*. **SP305-8.**

Standards; Alarm communications; False alarms; Fire alarms; Fire detectors; Risk benefit; Smoke detectors; *SP411*, pp. 195-200. **SP305-6.**

Standards; Aluminum; Fire department; Ladders; Performance requirements; *TN833*. **SP305-6.**

Standards; American National Standards Institute; ASCII; COBOL; Computers; International Standards Organization; *14340*. **SP305-6.**

Standards; Ammunition; Handguns; Police; Police equipment; *NBSIR 73-214*. **SP305-6.**

Standards; Analysis; Catalog; Certificate; Characterization; Composition; Price list; Property of material; Purity of material; Standard reference materials; *M260, 1967 Edition*. **SP305.**

Standards; Analysis; Catalog; Certificate; Characterization; Composition; Price list; Property of material; Purity of material; Standard reference materials; *SP260, July 1969 Edition*. **SP305-1.**

Standards; Analysis; Characterization; Composition; Property of material; Standard reference material; *SP260, 1970 Edition*. **SP305-2.**

Standards; Analytical detection limits; Ion exchange resins; Measurements; Microstandards; *10640*. **SP305-1.**

Standards; Analytical detection limits; Ion exchange resins; Measurements; Microstandards; *10948*. **SP305-2.**

Standards; Annual report; Computer; Energy; Environment; Health; Product safety; Research; Science and technology; *SP418*. **SP305-7.**

Standards; Apparel; Burn injury; Ease of ignition; Fabrics; Flammability tests; Garments; Heat transfer; *NBSIR 76-107*. **SP305-8.**

Standards; Attenuation; Calibration; Coaxial; Impedance; Microwave; Power; *11250*. **SP305-2.**

Standards; Automatic; Broad frequency; Equations; Network analyzers; Open circuit reflection coefficient; Short circuit; *16510*. **SP305-8.**

Standards; Automation; Computer aided manufacturing systems; Computer integrated manufacturing systems; Interfaces; Motivation for standardization; *16350*. **SP305-8.**

Standards; Ballistic protective equipment; Body armor; Confiscated weapons; Police; *NBSIR 73-215*. **SP305-6.**

Standards; Benefit-cost analysis; Building safety; Economic Progressive collapse; *NBSIR 74-542*. **SP305-7.**

Standards; Breathing apparatus; Closed loop breathing apparatus; Equipment design; Fire fighters; Fire fighting; Fire fighting equipment; Fire gases; Open loop breathing apparatus; Protective clothing; Smoke inhalation; *NBS-GCR-7-10*. **SP305-8.**

Standards; Building; Codes; Concrete; Construction; Falsework; Formwork; Loads; Reshoring; Safety; Shoring; *BSS8*. **SP305-8.**

Standards; Building; Components; Precoordination; *BSS3*. **SP305-3.**

Standards; Building codes; Buildings; Energy conservation; *TN789-1*. **SP305-7.**

Standards; Building codes; Building regulations; Building regulatory system; *NBSIR 76-1140*. **SP305-8.**

Standards; Building codes; Door assemblies; Performance requirements; Physical security; *16142*. **SP305-8.**

Standards; Building components; Codes; Laboratory procedures; Performance characteristics; Performance criteria; Specifications; *9530*. **SP305-1.**

Standards; Building research; Criteria; Energy; Engineering; Industry construction; Measurement techniques; *SP439*. **SP305-8.**

Standards; Buildings; Cooling; Heating; Hot water; Performance criteria; Solar energy; *NBSIR 76-1187*. **SP305-8.**

Standards; Buildings; Solar energy; *NBSIR 76-1143*. **SP305-8.**

Standards; Buildings (codes); Excavation; Foundation; Geotechnical engineering; *16535*. **SP305-8.**

Standards; Bunsen ice calorimeter; Calorimetric standards; Calorimetry; Heat standards; Phase-change calorimeter; Plutonium dioxide; Plutonium isotopes; Radionuclide calorimetry; Radionuclide decay power; *16443*. **SP305-8.**

Standards; Business forms; Computers; Data entry systems; Information processing systems; Information processing standards; OCR; OCR forms; Optical character recognition; *FIP, PUB 40*. **SP305-8.**

Standards; Calibration; Current meters (fluids); Hydraulics; Measurement; Open-channel flow; *12358*. **SP305-3.**

Standards; Calibration; Sliding termination; *14883*. **SP305-7.**

Standards; Calibrations; Environment; Measurements; Medical Radiation; *SP456*. **SP305-8.**

Standards; Calibrations; Laser calorimeters; Measurement assurance programs; Non-ionizing EM radiation hazards; RI and microwave measurements; *SP456*, pp. 417-425 (Nov. 1976). **SP305-8.**

Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; Nuclear instrumentation; *13266*. **SP305-5.**

Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; Nuclear instrumentation; *13456*. **SP305-5.**

Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; Nuclear instrumentation; *13457*. **SP305-5.**



Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; Nuclear instrumentation; 12580. **SP305-4.**

Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; Nuclear instrumentation; 13938. **SP305-6.**

Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; Nuclear instrumentation; 14002. **SP305-6.**

Standards; CAMAC; Computer interfacing; Control systems; Instrumentation; Instrumentation standards; 15041. **SP305-7.**

Standards; CAMAC; Computer systems; Control systems; Industrial control; Software; 14885. **SP305-7.**

Standards; CAMAC; Data; Dataway; Digital; Instrumentation; Modules; Nuclear; 12142. **SP305-3.**

Standards; CAMAC; Dataway; Instrumentation; Modules; Nuclear; 13316. **SP305-5.**

Standards; Cavity ionization chamber; Exposure; Gamma rays;  $^{60}\text{Co}$ ; 178A No. 4, 465-476 (1974). **SP305-6.**

Standards; Certification; Certified reference materials; Materials; Meaningful measurements; Measurement; Reference materials; SRM's; Standard materials; Standard reference materials; SP408. **SP305-7.**

Standards; Certifications programs; Consumer products; Household products; Industry standards; International recommendations; National standards; Product standards; TN705. **SP305-4.**

Standards; Clinical chemistry; Clinical standards; Diagnostic kits; Diagnostic material; Standard reference materials for clinical chemistry; 14709. **SP305-6.**

Standards; Cobol; Computers; Information interchange; Information processing; 14604. **SP305-6.**

Standards; Codes; Compatibility; Computers; Data interchange; Information processing; 14330. **SP305-6.**

Standards; Communications; Computers; Computer system hardware; Data processing; Data processing equipment; Information systems; Magnetic tape recording; Magnetic tapes; Magnetic tape transports; FIPS PUB 3-1. **SP305-5.**

Standards; Communications; Computers; Computer systems hardware; Data processing; Data processing equipment; Information systems; Magnetic tape recording; Magnetic tapes; Magnetic tape transports; FIPS PUB 25. **SP305-5.**

Standards; Communications; Mobile radio; Police; Police equipment; Portable radio; NBSIR 73-211. **SP305-6.**

Standards; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; Performance standards; Project plans; Protective equipment; Security equipment; NBSIR 74-568. **SP305-6.**

Standards; Company; Information; Standardization; 13492. **SP305-5.**

Standards; Complex; Laboratory; 10745. **SP305-1.**

Standards; Computer graphics; Computer networks; Graphics; Networks; Protocol; 15071. **SP305-7.**

Standards; Computer networks; Data communications; Networks; Packet-switching; 16025. **SP305-8.**

Standards; Computer networks; Data communications; Data networks; Networks; Packet switching; Protocol; 16576. **SP305-8.**

Standards; Computer techniques; Construction; Enforcement process; Housing; Hurricane Agnes; Mobile home parks; Mobile homes; Performance data; Regulatory process; NBSIR 76-1058. **SP305-8.**

Standards; Computer techniques; Enforcement process; Housing; Hurricane Agnes; Mobile home parks; Mobile homes; Performance data; NBSIR 75-690. **SP305-7.**

Standards; Construction; Hurricane Agnes; Housing; Mobile homes; Mobile home parks; Performance data; Regulatory process; NBSIR 75-641. **SP305-7.**

Standards; Consumer; Product safety; Regulation; 15497. **SP305-7.**

Standards; Consumers; Evaluation; Purchasing; 10303. **SP305-1.**

Standards; Driver information; Highway; Highway signing; Human factors; Information displays; 15699. **SP305-7.**

Standards; Dynamic force; Economic; Force; Metrication; National measurement system; NBSIR 75-929. **SP305-8.**

Standards; Echelon of standards; Electrical quantities; Environments for standards laboratories; International system derived units; National Bureau of Standards; 13103. **SP305-5.**

Standards; Electromagnetic radiation; Energy density; Hazards; Measurement; Microwave radiation; Probe; Radiation; TN391. **SP305-2.**

Standards; Emergency warning lights; Police equipment; Sirens; NBSIR 73-212. **SP305-6.**

Standards; Energy; Legal; Regulatory; SP403, pp. 225-235 (June 1976). **SP305-8.**

Standards; Energy efficiency curves; Gamma ray; Mixed radio nuclide; 14820. **SP305-7.**

Standards; Enforcement process; Field inspection; House trailers; Housing; Hurricane Agnes; Mobile homes; Performance data; NBSIR 75-688. **SP305-7.**

Standards; Engine pumper; Fire vehicle; Ladder truck; Maintenance; Replacement; Specifications; TN891. **SP305-8.**

Standards; Environment; Gamma-ray measurements; Ge(Li) detectors; Radioactivity; SP456, pp. 173-179 (Nov. 1976). **SP305-8.**

Standards; Exposure; Photography; 9372. **SP305.**

Standards; Flammable fabrics; Product safety; Sampling; SP411, pp. 16-19. **SP305-6.**

Standards; Frequency; Resonance; 11857. **SP305-3.**

Standards; Fuel; Materials accountability; Measurements; Nuclear; Safeguards; 16481. **SP305-8.**

Standards; Graphite arc; High-speed measurements; High temperatures; Pyrometry; Radiance; 12201. **SP305-3.**

Standards; Human factors ergonomics; Product performance; Product safety; 16089. **SP305-8.**

Standards; Information services; 14423. **SP305-6.**

Standards; Information sources; KWIC Index; Plant engineering; Product standards; Specifications; Standardization; 12804. **SP305-4.**

Standards; Instrumentation; Instruments; Modules; Nuclear; NIM; TN556. **SP305-2.**

Standards; Interlaboratory testing; International standards; Standardization; 14204. **SP305-6.**

Standards; International Scientific Radio Union (URSI); Measurements; Radio; 10243. **SP305-1.**

Standards; Ionizing radiation; Measurement assurance; Radiation users; SP456, pp. 403-416 (Nov. 1976). **SP305-8.**

Standards; Measurement system; Photometry; Professional societies; Radiometry; TN594-6. **SP305-6.**

Standards; Microcomputers; Minicomputers; Networks; 15643. **SP305-7.**

Standards; Patrolcar; Police; Police vehicles; NBSIR 73-216. **SP305-6.**

Standards; Police; Police equipment; NBSIR 73-210. **SP305-6.**

Standards; Pollution; Pyrolysis;  $\text{SO}_2$ ; 14332. **SP305-6.**

Standards; Procedure; Products; Quality; 9904. **SP305-1.**

Standards; SRM's; Biomedical; Clinical; Measurements system; Radioisotopes; Radiopharmaceuticals; Reference sources; 16151. **SP305-8.**

Standards; Standard Reference Materials; Temperature; Thermal; Ceramics; Chemical composition; Mechanical properties; Pressure; Properties; 12181. **SP305-3.**

Standards; Standard reference material; Primary standards; 11511. **SP305-2.**

Standards; Standard time scales; Atomic frequency standards; Atomic time; Cesium atomic beam; Frequency and time standards; 9387. **SP305.**

- Standards; Standards laboratory; Time and frequency; High frequency; Measurements; Microwave; Physical properties; Physical quantities; Physics; *10189, SP305-1.*
- Standards; Standards organization; Test methods; Plastics standardization; Specifications; *16106, SP305-8.*
- Standards; State laboratories; Volume measurements; Length measurements; Mass measurements; Metrology; *SP335, pp. 89-94, SP305-3.*
- Standards; State law; Architectural glazing; Codes; Consumer Product Safety Committee; Consumer Safety Glazing Committee; Glazing; Impact tests; Safety glazing; *NBSIR 76-1109, SP305-8.*
- Standards; State of the art; Capacitance; Inductance; Impedance and admittance; Measurement; Radio frequency; Resistance; *9793, SP305-1.*
- Standards; State regulation; Building codes; Certification; Compliance assurance; Evaluation; Inspection; Manufactured building; Model documents; *NCSBCS; BSS87, SP305-8.*
- Standards; State-local relationship; State regulations; Building codes; Factory-built housing; Industrialized building; Inspection; Manufactured building; Model codes; Model documents; *NCSBCS; On-site construction; Prefabricated construction; NBS-GCR-74-27, SP305-8.*
- Standards; State-of-the-art; Modules; Nuclear instruments; Progress; *9209, SP305.*
- Standards; State-of-the-art; Modules; Nuclear instruments; Progress; *9646, SP305-1.*
- Standards; State-of-the-art study; Enforcement; Legislation; Mobile homes; Regulation; *NBSIR 75-680, SP305-7.*
- Standards; States; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; National government; Representations and codes; *FIPS PUB. 5-1, SP305-2.*
- Standards; States; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; Representations and codes; *FIPS PUB. 10, SP305-2.*
- Standards; States; Training; Weights; Laboratory; Measure; *10086, SP305-1.*
- Standards; States—standardization activities; Test methods; Codes; Consensus system; Directory; Federal Government—standardization; Industry standards activities; National standards activities; Recommended practices; Specifications; Standardization activities; *SP417, SP305-7.*
- Standards; Statistical control; Calibration; Capacitance; Capacitance, measurement; Coaxial capacitance standards; Impedance, measurements, capacitance; *TN386, SP305-2.*
- Standards; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; National government; *FIPS PUB 6-2, SP305-5.*
- Standards; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; National government; *FIPS PUB 6-1, SP305-2.*
- Standards; Statistical data; Burns; Case histories; Curtains; Death; Draperies; FFacts; Fires; Flammable fabrics; Houses; *NBSIR 73-234, SP305-6.*
- Standards; Statistical methods; Calibration; Check standard; Control chart on precision measure; Data analysis; Design of experiments; Reporting of results; *14394, SP305-6.*
- Standards; Statistics; Acceptance tests; Confidence interval; Criminalistics; Errors; Goodness of fit; Normal distribution; Significance tests; *15279, SP305-7.*
- Standards; Statistics; Accidents; Burns; Children; Clothing fire Deaths; FFacts; Fire; Flammable fabrics; Injury; Sleepwear; *TN810, SP305-5.*
- Standards; Steam generator; Storage; Temperature equilibrium; Weights; Cleaning; *NBSIR 74-443, SP305-6.*
- Standards; Steel; Thermal; Thermodynamics; Automobile; Break-even analysis; Conservation; Cooling; Economic Energy; Environment; Fuel; Heating; Imports; Industry; Management; Manufacturing; Paper; Petroleum; Resource; *SP403, SP305-8.*
- Standards; Steel; Titanium; Transducer calibration; Ultrasonic reference blocks; Acoustic emission; Aluminum; Fatigue cracks; Flat bottomed holes; *16252, SP305-8.*
- Standards; Stiffness; Structural stability; Walls; Brick; Buckling; Composite walls; Compressive strength; Concrete block; Constitutive relations; Flexural strength; Masonry; Mason walls; Mortar; Slenderness ratio; *BSS73, SP305-8.*
- Standards; Stopping power ratio; Absorbed dose; Dosimetry; Electrons; Ionization chambers; *15579, SP305-7.*
- Standards; Strength; United States; Abnormal loading; Building Codes; Design criteria; Multistory; Progressive collapse; Risk Stability; *13475, SP305-5.*
- Standards; Strontium; Trace analysis; Isotope dilution; Mass spectrometry; Rubidium; *13862, SP305-6.*
- Standards; Structural design; Codes; Masonry; *15404, SP305-7.*
- Standards; Structural design; Earthquake; Housing; Performance specification; Prefabricated dwelling; *SP444, pp. IV-55—IV-69 (Apr. 1976), SP305-8.*
- Standards; Structural engineering; Bridge; Building; Code Dams; Earthquake damage; Earthquakes; Foundation geology; Highways; Hospital; Housing; Mobile home; Seismic; *BSS40, SP305-3.*
- Standards; Structural loading; Buildings; Codes; Design criteria; Regulatory system; Safety; *15503, SP305-7.*
- Standards; Structural stability; Walls; Brick; Cavity walls; Composite walls; Compressive strength; Concrete block; Flexural strength; Masonry; Mortar; Slenderness effects; *BSS3, SP305-3.*
- Standards; Subsets; American Standard Code for Information Interchange; ASCII; Coded character subsets; Codes; Data communication; Data interchange; Data processing; Federal Information Processing Standards; Graphic character subset; *FIPS PUB 15, SP305-3.*
- Standards; Subsets; American Standard Code for Information Interchange; ASCII, coded character subsets; Codes; Data communication, data interchange, data processing; Federal Information Processing Standards; Graphic character subset; Graphic subsets; *FIPS PUB 35, SP305-7.*
- Standards; Subsets; American Standard Code for Information Interchange; ASCII, coded character subsets; Codes; Data communication, data interchange, data processing; Federal Information Processing Standards; Graphic character subset; Graphic subsets; *FIPS PUB 36, SP305-7.*
- Standards; Substitution weighing; Transposition weighing; Trimass; Uncertainty; Value; Balance; Buoyancy; Calibration; *TN577, SP305-3.*
- Standards; Sulfur dioxide; Carbon monoxide; Hydrocarbon Measurement; Nitrogen dioxide; Particulate matter; Photochemical oxidants; *16121, SP305-8.*
- Standards; Supermarket automation; Weights and measure; Calibration; Communication; Consumers; Grain moisture measurement; Laws and regulations; Measurement; Metric Packaging and labeling; Police radar equipment; *SP44, SP305-8.*
- Standards; Survey; Antenna gain; Attenuation; Field strength; Impedance; Measurement; Microwave; Noise; Phase shift;

- Power; Progress; Reflection coefficient; Review; 9565. **SP305-1.**
- Standards; Survey; Ultraviolet; Detectors; NBS; Radiometry; Sources; *SP456*, pp. 107-110 (Nov. 1976). **SP305-8.**
- Standards; Symbols; Type faces; Typography; Visibility; Alphanumeric characters; Displays; Handbook; Human factors; Legibility; Psychology; Readability; *M262-2*. **SP305.**
- Standards; System engineering; Building codes; Computer model; Decision theory; Networks; Specifications; *NBS-GCR-76-55*. **SP305-8.**
- Standards; Systems engineering; Building codes; Computer program; Decision theory; Networks; Specifications; *NBS-GCR-76-56*. **SP305-8.**
- Standards; Systems engineering; Building codes; Computer program; Decision theory; FORTRAN; Logic design; Networks; Specifications; *NBS-GCR-76-57*. **SP305-8.**
- Standards; Systems engineering; City planning; Human factors; *10341*. **SP305-1.**
- Standards; Technical bases; Building research; Building technology; Codes; Criteria; Project summaries; *SP446*. **SP305-8.**
- Standards; Technology; Annual report; Computer; Energy; Environment; Measurement; Product safety; Research; Science; *SP437*. **SP305-7.**
- Standards; Technology; Biomedical; Conference; Cross section; Nuclear; *SP425, Volumes I and II*. **SP305-7.**
- Standards; Technology; Transfer; Innovation; Procurement; Specifications; *15595*. **SP305-7.**
- Standards; Technology assessment; User experience; Auditing; Cost/benefit analysis; Data base; Data base management; DBMS; Government regulation; Management objectives; Privacy; Security; *SP451*. **SP305-8.**
- Standards; Teletypewriters; Coding; Interfaces; Modems; Signal processing; *NBS-GCR-74-30*. **SP305-8.**
- Standards; Temperature; Blackbody; International Practical Temperature Scale; Optical; Photoelectric pyrometer; Radiation sources; *9347*. **SP305.**
- Standards; Temperature; Infrared pyrometer; International Practical Temperature Scale; Optical pyrometer; Radiation thermometry; *9343*. **SP305.**
- Standards; Temperature; International temperature scale; Pyrometry; *13590*. **SP305-5.**
- Standards; Temperature scale; Thermometry; Annual report; Calibrations; Progress report; *TN869*. **SP305-7.**
- Standards; Temperature scales; Thermoelectric thermometry; Acoustical thermometry; Cerous magnesium nitrate thermometer; Error analysis; Liquid-in-glass thermometry; Reprints; Resistance thermometry; Spectroscopic thermometry; *SP300, Volume 2*. **SP305-1.**
- Standards; Tents; Tests; Uniforms; Upholstered furniture; Apparel; Burn injury; Carpets; Draperies; Fabrics; Flammability; Heat flux; *16144*. **SP305-8.**
- Standards; Text development; Annual report to Congress; Blankets; Carpets and rugs; Children's sleepwear; Cooperation; Flammability; Flammability reduction; Mattresses; Research; Small carpets and rugs; *TN596*. **SP305-3.**
- Standards; Text development; Upholstered furniture; Annual report to Congress; Blankets; Children's sleepwear; Flammability; Flammability reduction; Mattresses; Research; Sampling plans; *TN749*. **SP305-4.**
- Standards; Test methods; Accuracy; Paper; Precision; *11038*. **SP305-2.**
- Standards; Test methods; Analyses; International Commission on Rules for the Approval of Electrical Equipment; International Electrotechnical Commission; International Organization for Standardization; International Organization of Legal Metrology; *SP390*. **SP305-6.**
- Standards; Test methods; Certification and labeling plans; Government standardization, U. S.; Specifications; Standardization activities, U. S.; *M288*. **SP305.**
- Standards; Test methods; Conservation; Consumer satisfaction; Economic design; Product safety; *13123*. **SP305-5.**
- Standards; Test methods; Urban planning; User needs; Building systems; Performance of buildings; *B551*. **SP305-2.**
- Standards; Test methods; Watthour meters; Code; Definitions; Demand meters; Electricity metering; Performance requirements; *15829*. **SP305-8.**
- Standards; Testing; Automotive; Brake; Brake fluid; Brake lining; *12398*. **SP305-4.**
- Standards; Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; Foil paper; Instrument characteristics; Materials testing; Measuring instruments; Mechanical properties; *11706*. **SP305-2.**
- Standards; Testing; Validation; Algorithms; Mathematical functions; Performance; *14061*. **SP305-6.**
- Standards; Tests; User needs; Carpets; Floor coverings; Government; Performance; Procurement; Specifications; *TN822*. **SP305-6.**
- Standards; Thermal conductivity; Thermal expansion; Thermal radiation; Viscoelasticity; Ceramics; Elasticity; Fracture; Inelastic deformation; Melting point; *SP303*. **SP305-1.**
- Standards; Thermal convectors; Thermoelements; Transfer standards; Voltage comparator; Voltage measurements; Audio-frequency; Comparator; *9782*. **SP305-1.**
- Standards; Thermal neutrons; Data analysis; Flux density; Intercomparisons; Least squares; *12048*. **SP305-3.**
- Standards; Thermal storage; Solar buildings; Solar collectors; Solar domestic hot water systems; Solar heating; *NBSIR 76-1059*. **SP305-8.**
- Standards; Thermocouple; Ammeter; Calibration; Current; Electrodynamics; Measurement; Radio-frequency; *10058*. **SP305-1.**
- Standards; Thermometry; Data; International Practical Temperature Scale; Measurements; National Measurement System; *NBSIR 75-932*. **SP305-8.**
- Standards; Time; Time standards, universal time; Atomic time; *12264*. **SP305-3.**
- Standards; Time scales; Accuracy; Basic standards; Frequency; Frequency metrology; Stability; *12957*. **SP305-4.**
- Standards; Time standards; Wall shift; Atomic clocks; Cesium beam; Clocks; Frequency fluctuations; Frequency standards; Hydrogen maser; Hyperfine separation; Maser; Noise; *10108*. **SP305-1.**
- Standards; Tin; Tin point; Fixed point; Freezing point; *13599*. **SP305-5.**
- Standards; Traceability; Assurance; Measurement; Radioactivity; Radiopharmaceutical; *SP456*, pp. 71-76 (Nov. 1976). **SP305-8.**
- Standards; Traceability; Intercomparisons; Radioactivity; *14303*. **SP305-6.**
- Standards; Transducers; Vibration; Vibration exciters; Vibration pickups; Acceleration; Automation; Calibration; Measurements; Shakers; *15569*. **SP305-7.**
- Standards; Transducers; Vibration; Vibration exciters; Vibration pickups; Acceleration; Automation; Calibration; Measurements; Minicomputer; Shakers; *NBSIR 74-482*. **SP305-7.**
- Standards; Transfer standards; Government agencies; Measurement assurance program; Permissible limits; Radiation; Regulations; *14583*. **SP305-6.**
- Standards; Transmission line; Waveguide; Air lines; Coaxial; Impedance; Measurements; *9809*. **SP305-1.**
- Standards; Tutorial; Microwave; Attenuation; Measurements; *Mono. 97*. **SP305.**
- Standards; UHF; Uncertainties; Measurements; Microwave; Phase shift; *6697*. **SP305-1.**
- Standards; Ultraviolet; Vacuum; Wavelengths; Carbon; Copper; Germanium; Ritz; Silicon; Spectrum; *9338*. **SP305.**

Standards; Ultraviolet reflectance; Aluminum; Gold; Infrared reflectance; Interferometer; Mirrors; Reflectance; Reflectance standards; Spectral reflectance; Spectral specular reflectance; Specular reflectance; *SP260-38. SP305-4.*

Standards; Uncertainty; Variability; Appearance evaluation; Colorimetry; Color spacing; Color vision; Gloss; Metamerism; Spectrophotometry; *SP300, Volume 9. SP305-4.*

Standards; United States; Blankets; Canada; Carpets; Clothing; Fabric flammability testing; Fabrics; Flammable Fabrics Act; Hazardous Products Act; Mattresses; Sleepwear; *TN742. SP305-4.*

Standards; United States; Units of measures; Changeover; Foreign trade; Metric system; Paper machines; Planning; *12991. SP305-4.*

Standards; Units; Education; Metrology; *10176. SP305-1.*

Standards; Units; Electromagnetic quantities; Frequencies; *10064. SP305-1.*

Standards; Units of measurement; Weights; History of measurement standards; Measures; Metric system; *SP447. SP305-8.*

Standards; Upholstered furniture; Cigarettes; Education; Fabric; Fire; Flammability; Hazard; Ignition source; Kitchen ranges; Matches; Mattresses; Sleepwear; *SP411, pp. 1-4. SP305-6.*

Standards; U.S. Government; American National Standards; Computers, data elements and codes; Data processing systems; Federal Information Processing Standards; International Organization for Standardization; Management information systems; *FIPS PUB 12. SP305-3.*

Standards; U.S. Government; American National Standards; Computers; Data elements and codes; Data processing systems; Federal Information Processing Standards; Management information systems; International Organization for Standardization; *FIPS PUB 12-2. SP305-6.*

Standards; U.S. Government; Computers; Data processing; Federal Information Processing Standards; Management; *FIPS PUB 23. SP305-5.*

Standards; U.S. Government; Computers; Data elements and representations; Data processing systems; Federal Information Processing Standards; Management information systems; *FIPS PUB 28. SP305-6.*

Standards; U.S. Metric Study; Engineering standards; International standards; International System of Units; Metric conversion; Metric system; Metrication; Metrication and engineering standards; *SI. SP345-11. SP305-3.*

Standards; U.S. Metric Study; Engineering standards; IEC; International standardization; ISO; Metric study; PL 90-472; Product certification; *SP345-1. SP305-2.*

Standards; User groups; Computers; Data base management; Governments; Management information systems; Public services; Security; *15923. SP305-8.*

Standards; User identification; Brooks Bill; Computer security; Congressional concern; Controlled accessibility; Data sensitivity; Measures of risk; *15498. SP305-7.*

Standards; Utility theory; Children's sleepwear; Decision analysis; Flammable fabrics; Probability assessment; *13596. SP305-5.*

Standards; Computer programming; Computers; Data processing; Federal Information Processing Standards; Flow charting; Flowchart symbols; Information processing; *FIPS PUB 24. SP305-5.*

Standards; Vacuum; Accuracy; Calibration; Measurement; Pressure; *10269. SP305-1.*

Standards; Vacuum; Accuracy; Calibration; Measurement; Pressure; *11051. SP305-2.*

Standards; Vacuum ultraviolet; Wavelength; Energy levels; Silicon; Spectroscopy; *10001. SP305-1.*

Standards; Voltage; Volt box; Calibration; Console; Electrical; Measurement; Ratio; *J70C3-229, 173-185 (1966). SP305.*

Standards; Voluntary standards; Consumers; Safety; *11639. SP305-2.*

Standards; Warning lights and sirens; Anthropometry; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; Performance standards; Projects; Protective equipment; Security equipment; *NBSIR 74-529. SP305-6.*

Standards; Waveguide; Attenuation; Coaxial; Measurement; *10044. SP305-1.*

Standards; Weights; Measures; Product quality; *9807. SP305-1.*

Standards; 2-ports; Waveguide; Waveguide discontinuities; Automatic network analyzers; Coaxial; Coaxial line step discontinuities; Group delay; Scattering coefficients; *TN657. SP305-6.*

Standards; \*Li; \*B; Cross sections; Light elements; R-matrix; *SP425, pp. 302-308. SP305-7.*

Standards accuracy; Certificates; Combination of errors; Commercial standards; Measurements; Precision; Radioactivity standards; *9732. SP305-1.*

Standards, bicycle safety; Test method, bicycle; Bicycle brake; Brakes, bicycle; Dynamics, bicycle; Error analysis; Friction tire/pavement; Kinetics, bicycle; Measurements, bicycle braking; Pitchover; *NBSIR 75-786. SP305-8.*

Standards calibration; Barium sulfate; Diffuse reflectance spectra; Magnesium oxide; Opal glass; Radiant flux; Reflectance standards; *J. Res. 80A No. 4, 585-595 (1976). SP305-8.*

Standards calibrations; Tungsten strip lamp; Blackbody; High temperature measurement; Radiometry; Spectral radiance; *11592. SP305-2.*

Standards (coaxial connectors); Standards (waveguide or coaxial line); Traceability of electrical standards; Basic electronic standards; Classification of electronic standards; DC standards; Low frequency standards; *13104. SP305-5.*

Standards conformance; COBOL; COBOL coding form; Federal Information Processing Standard; Federal Standard COBOL; Software; *FIPS PUB 44. SP305-8.*

Standards conformance; COBOL; Data processing; Federal Information Processing Standard; Information interchange; Information processing; Programming language; Software; *FIPS PUB 21-1. SP305-7.*

Standards, dental; Dental materials and devices, specification for and certification of; Dental specifications; Specification; *SP354, pp. 221-224. SP305-4.*

Standards development; Statistics; Children; Flammable fabric; Sleepwear; *SP411. SP305-6.*

Standards development; Statistics; Children; Flammable fabric; Sleepwear; *SP411, pp. 5-16. SP305-6.*

Standards development; Technological change; Administrative experiment; American National Standards Institute; Experimental Technology Incentives Program; Nuclear Regulatory Commission; *NBS-GCR-ETIP 76-16. SP305-8.*

Standards enclosure; Transformer; Voltage-divider; Voltmeter; Alternating-current; Calibration; Direct-current; High-voltage; Ratio; Safety; *TN349. SP305.*

Standards, flow measurement; Flow measurement, water; Instruments, flow measurement; Open channel flow measurement; Pipe flow measurement; *SP421. SP305-7.*

Standards, fluorescence; Thermophiles; Actinometers; Calibration of spectrofluorometers; Detectors, absolute; Fluorescence spectra, corrected; Quantum counters; Spectrofluorometers, design; Spectrofluorometry, absolute; Standard lamps; *SP378, pp. 137-150. SP305-5.*

Standards, fluorescence; Thermophiles; Actinometers; Calibration of spectrofluorometers; Detectors, absolute; Fluorescence spectra, corrected; Quantum counters; Spectrofluorometers, design; Spectrofluorometry, absolute; Standard lamps; *J. 76A No. 6, 547-560 (1972). SP305-4.*

Standards for acidity; Acidity scales; Deuterium oxide; Nonaqueous media; PD; PH; PH\*; PH concept; *1050. SP305-1.*



Standards for audiometers; Threshold of hearing; Audiometry; Earphones; NBS 9-A coupler; Reference threshold sound pressure levels; 12260. **SP305-3.**

Standards for nuclear chemistry; Standards for nuclear technology; Activation analysis standards; Isotope reference standards; Nuclear fuel burn-up standards; Radiation effect standards; Radioactivity standards; *SP310. SP305-1.*

Standards for nuclear technology; Activation analysis standards; Isotope reference standards; Nuclear fuel burn-up standards; Radiation effect standards; Radioactivity standards; Standards for nuclear chemistry; *SP310. SP305-1.*

Standards for pD; Acidity; Carbonate; Citrate; Deuterium ion; Deuterium oxide; Glass electrode; Heavy water; PD; Phosphate; 11079. **SP305-2.**

Standards for pH; Acidity; Carbonate; Citrate; Emf; Hydrogen electrode; PH; *J.73A No. 1, 37-41 (1969). SP305-1.*

Standards for physical measurement; Temperature; Time; Ampere; Candela; Current; Degree Kelvin; International System of Units; Kilogram; Length; Luminous intensity; Mass; Meter; Metric system; Second; 9796. **SP305-1.**

Standards for safety; Government participation; Refrigeration safety standards; Safety of appliances; 15890. **SP305-8.**

Standards for science; Measurement accuracy; Physical measurement; Physical standards; 10504. **SP305-1.**

Standards for spectrophotometers; Colorimetry; Keegan, Harry J.; Photointerpretation; Safety color codes; Spectrophotometry; 11414. **SP305-2.**

Standards format; Editorial format; Product standards; *PS0-67. SP305-1.*

Standards in Russia; Standard reference materials; Standard samples; USSR standards; *SP260-30. SP305-3.*

Standards laboratories; Measurement system; National standards laboratories; Precision electromagnetic measurements; 9874. **SP305-1.**

Standards laboratories; Telephone industry and specialized carriers; Time and frequency; Time scales; Users of NBS radio broadcasts; Atomic frequency standards; Aviation industry; Electric power industry; National Measurement System; Position location; *SP445-1. SP305-8.*

Standards laboratory; Synchrotron; Building collapse; Corrosion; Energy; Environmental; Frequency standards; Hearing aids; High-rise buildings; Metals; Radiation safety; *DIM/NBS 60, No. 5, 1-24 (1976). SP305-8.*

Standards laboratory; Time and frequency; High frequency; Measurements; Microwave; Physical properties; Physical quantities; Physics; Standards; 10189. **SP305-1.**

Standards laboratory management; Test equipment records; Use, storage, or surplus; Data for decision; *SP335, pp. 95-98. SP305-3.*

Standards, national; Systems concept; Measurement; National Bureau of Standards; National Measurement System; National standards; Self-calibration; 11516. **SP305-2.**

Standards of composition; Electron probe microanalyzer; Homogeneity—standards; NBS cartridge brass; NBS low-alloy steel; Optical metallography; Solids mass spectrometer; 10806. **SP305-1.**

Standards of quality; Voluntary standardization; Government/non-government cooperation; Performance standards; Safety codes; Simplified practice recommendations; 10505. **SP305-1.**

Standards of rf voltage; Voltage measurement; High frequency voltages; Microwave voltages; 10059. **SP305-1.**

Standards of time and frequency; Time and frequency; Frequency broadcasts; History of broadcasts; 9572. **SP305-1.**

Standards of ultrasonic power; Ultrasonic power; Ultrasonic transducers; Piezoelectric transducers; 14819. **SP305-7.**

Standards of wavelength; Thorium; Thorium standards of class B; Wavelength standards; Secondary standards in thorium spectrum; 11739. **SP305-2.**

Standards organization; Acoustics; Noise; Rating scheme; Sound; *SP386, 1976 Edition. SP305-8.*

Standards organization; Test methods; Plastics standardization; Specifications; Standards; 16106. **SP305-8.**

Standards, plastics; Index of plastics standards; Plastics standards, world index; *SP352. SP305-3.*

Standards, spectrophotometric; Photometric accuracy; *SP378, pp. 135-136. SP305-5.*

Standards, spectrophotometric; Photometric accuracy; *J.76A No. 5, 509-510 (1972). SP305-4.*

Standards, State; State specifications and standards; Index of State specifications and standards; Key-Word-In-Context index of State specifications and standards; Purchase specifications and standards, State; Specifications, State; *SP375. SP305-5.*

Standards, uses of radiation; Ionizing radiation; Measurements; *SP456, pp. 13-24 (Nov. 1976). SP305-8.*

Standards, voluntary, index of; Engineering Standards, index of; Index of standards, recommended practices, specifications, test methods; Key-Word-In-Context index of voluntary standards; *SP329, Supplement 1. SP305-4.*

Standards, voluntary, index of; Engineering standards, index of; Index of standards, recommended practices, specifications, and test methods; Key-Word-In-Context index of voluntary standards; *SP329. SP305-3.*

Standards, voluntary, index of; Engineering standards, index of; Index of standards, recommended practices, specifications, test methods; Key-Word-in-Context index of voluntary standards; KWIC index of standards; *SP329, Supplement 2. SP305-7.*

Standards (waveguide or coaxial line); Traceability of electrical standards; Basic electronic standards; Classification of electronic standards; DC standards; Low frequency standards; Standards (coaxial connectors); 13104. **SP305-5.**

Standards, wavelength; Transition probabilities; Wavelength standards; Laboratory spectra; Molecular spectra; Solar spectrum; 10588. **SP305-1.**

Standards-making bodies; Engineering standards; International and national standards activities; OESLA; 9315. **SP305.**

Standards-making bodies; Focal point; OESLA established at NBS; 9750. **SP305-1.**

Standing committee; Technical personnel; Environment; Personnel; Professional environment; Professional personnel; Scientists and engineers; 9271. **SP305.**

Standing wave machine; UHF; Impedance measurement; Microwave; Quarter wave; Reflection coefficient measurement; 10389. **SP305-1.**

Standing waves; Electric fields; Laser damage; Oblique incidence; *SP462, pp. 25-28 (Dec. 1976). SP305-8.*

Standing waves; 2p shell; Close-coupling; Core relaxation; Multi-channel; Neon; Photoionization; 9781. **SP305-1.**

Standing-wave fields; Thin films; Two-photon absorption; Damage thresholds; Electron avalanche; Picosecond pulses; Refractory oxides; *SP462, pp. 292-300 (Dec. 1976). SP305-8.*

Standing-wave patterns; Damage thresholds; Dielectric thin films; Electric fields; Electron-gun evaporation; Picosecond pulses; RF sputtering; *SP435, pp. 254-271 (Apr. 1976). SP305-8.*

Standing-wave ratio; Waveguide impedance; Impedance standard; Reflection coefficient; Reflectometers; 9564. **SP305-1.**

Standing-waves; Dielectric films; Electric fields; Laser damage; Optical coatings; *SP462, pp. 301-309 (Dec. 1976). SP305-8.*

Stannic oxide; Alloys; Analysis; Internal standard; Mössbauer spectrometry; 11978. **SP305-3.**

Stannic oxide; High pressure; Line broadening; Mössbauer spectroscopy; Quadrupole splitting; 9206. **SP305.**

Stannic oxide; Tin ores; Mössbauer spectrometry; Quantitative analysis; 15358. **SP305-7.**

- Staple detector; Superconducting; Synthesis, chemical; Titration; Wind vane; Work positioner; Conductometry; Decoding matrix; Fluoroolefins; Integrator; Magnetic sensing probe; Magnetic tape; Microbridge; Numbering machine; Perfluorostyrene; *TN744*. **SP305-4.**
- Staples; Bolts; Building assemblies; Building components; Building constructions; Framing wood; Improved nails; Mechanical fasteners; Mechanical fastenings; Nails; Screws; *SP361, Vol. 1*, pp. 633-642. **SP305-4.**
- Star flux; Accuracy; Antenna; Calibration; Cassiopeia A; G/T; *NBSIR 74-382*. **SP305-6.**
- Star formation; Cross sections; Pion; *SP425*, pp. 472-475. **SP305-7.**
- Starch; Abstraction; Dextran; Dextrin; Free radicals; Hydroxyl; Polyacrylic; Polyethylene imine; Polyethylene oxide; Polymer degradation; Polymethacrylic acid; Polypropylene oxide; Polyvinyl alcohol; *J.72A No. 1*, 49-73 (1968). **SP305-1.**
- Starch; Hydrolyzates; Infrared; Moisture; Near-infrared; Spectrophotometry; *14503*. **SP305-6.**
- Starch filled; Impregnated; Testing procedures; Bookbinders; Book cloths; Book covers; Buckrams; *P59-68*. **SP305-1.**
- Starfish; Synchrotron radiation; Decay; Intensity; Magnetic equator; Observations; Radio frequencies; *10237*. **SP305-1.**
- Stark; Balmer; Broadening; Dynamic; Ion; Plasma; *13962*. **SP305-6.**
- Stark broadening; Asymmetries; Hydrogen lines; Line profiles; Shifts; Stabilized arc; *12934*. **SP305-4.**
- Stark broadening; Atomic line shapes; Critical review; Hydrogen lines; Plasma sources; *13941*. **SP305-6.**
- Stark broadening; Balmer; Hydrogen; Ion dynamics; Plasma; *15064*. **SP305-7.**
- Stark broadening; Balmer lines; Hydrogen plasma; Ion motion; Line shapes; Reduced mass; *15463*. **SP305-7.**
- Stark broadening; Emission coefficient; Hydrogen; Hydrogen continuum; LTE; *12708*. **SP305-4.**
- Stark broadening; Stark shifts; Stark widths; Nitrogen; Plasma line broadening; Spectral lines; *16406*. **SP305-8.**
- Stark broadening; Stark-induced red shift; White dwarf spectra; Balmer lines H $\alpha$ , H $\beta$ , and H $\gamma$ ; Gravitational red shift; *12226*. **SP305-3.**
- Stark broadening; Sulfur; Transition probability; Arc; Atomic spectroscopy; Plasma; *10209*. **SP305-1.**
- Stark broadening; Symmetry group; Time ordering; Balmer lines; Four dimensional rotation group; Hydrogen; Plasma; Plasma broadening; Pressure broadening; Scattering matrix; Spectral line broadening; *15009*. **SP305-7.**
- Stark broadening; Temperature measurement; H $\beta$  profiles; Plasma arcs; *11126*. **SP305-2.**
- Stark broadening; Theory; Unified classical path; Hydrogen lines; Line wings; *12222*. **SP305-3.**
- Stark broadening; Unified theory; Classical path; Hydrogen lines; Line wings; One-electron theory; *12084*. **SP305-3.**
- Stark broadening; Unified theory; Classical path; Hydrogen lines; Line wings; *Monogr. 120*. **SP305-3.**
- Stark broadening; Unified theory; Classical path; Hydrogen lines; Line wings; One-electron theory; *Monogr. 116*. **SP305-2.**
- Stark broadening; Unified theory; Electron gas; *13864*. **SP305-6.**
- Stark broadening; Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; Pressure broadening; Resonance broadening; *SP366*. **SP305-4.**
- Stark broadening; Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; Pressure broadening; Resonance broadening; *SP366, Supplement 1*. **SP305-6.**
- Stark broadening; Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; Pressure broadening; Resonance broadening; *SP366-2*. **SP305-7.**
- Stark broadening; Wall-stabilized arc; Balmer lines H $\alpha$  and H $\beta$ ; Half-widths; Line profiles; *10463*. **SP305-1.**
- Stark broadening; Width; Experimental; Neutral atom; Review; Shift; *JPCRD 5*, No. 2, 209-258 (1976). **SP305-8.**
- Stark broadening of hydrogen; *13879*. **SP305-6.**
- Stark broadening parameters; Stark shifts; Stark widths; Critically evaluated data; Experimental; Ionized spectra; *JPCRD 5*, No. 2, 259-308 (1976). **SP305-8.**
- Stark effect; Atomic hydrogen; Balmer alpha; Beam formed; Crossed beams; Electrons; Excitation; Optical spectroscopy; *15891*. **SP305-8.**
- Stark effect; Carbonyl sulfide; Dipole moments; Infrared; Lasers; Spectra; Spectroscopy; *16181*. **SP305-8.**
- Stark effect; Chlorine monoxide; Free radical; Hyperfine structure; Microwave spectrum; Rotational transitions; *1083*. **SP305-1.**
- Stark effect; CH<sub>3</sub>CN (Acetonitrile); Dipole moment; Fabry-Perot interferometer; *9571*. **SP305-1.**
- Stark effect; Dense plasma; Line broadening; Plasma diagnosis techniques; *9195*. **SP305.**
- Stark effect; Dipole moment; Microwave spectrum; Molecular structure; Silacyclopentane; Small-ring molecule; *1604*. **SP305-8.**
- Stark effect; Rotational spectrum; Dipole moment; Ethynedifluoroborane; Microwave spectrum; Molecular structure; *12328*. **SP305-3.**
- Stark effect; Structural parameters; Dipole moment; HNS; Isotopic species; Microwave spectrum; *11020*. **SP305-2.**
- Stark effect; Structure; Tautomerism; Dipole moment; Microwave spectrum; Pyrazole; *10475*. **SP305-1.**
- Stark effect; Symmetric top; Trifluoramine; Dipole moment; Hyperfine structure; Microwave spectrum; Quadrupole coupling; *13426*. **SP305-5.**
- Stark effect; Vibrational states; Allene; E vibrational state; Microwave spectrum; Rotational transitions; *11035*. **SP305.**
- Stark effect; Voltage standard; Dipole moment; HCN resonance spectrum; Maser spectrometer; *J.74A No. 6*, 791-799 (1976). **SP305-2.**
- Stark effect; Water; Dipole moment; *13836*. **SP305-6.**
- Stark effect; Water; Millimeter waves; *J.76A No. 5*, 521-525 (1972). **SP305-4.**
- Stark effect; ZnS; ZnSe; II-VI compounds; CdS; Different techniques; Electric field broadening; Electroreflectance; Electrons; *10638*. **SP305-1.**
- Stark profile; High temperature; Hydrogen arc; Line broadening; Lyman alpha; Optically thin; *15413*. **SP305-7.**
- Stark profiles; T-tube; C II; Ca II; Experimental; Monochromator; Profile scans; *10220*. **SP305-1.**
- Stark quenching; Time-dependent theory; Lifetimes; One- and two-electron 2S states; *12859*. **SP305-4.**
- Stark rubber; Chain folding; Contractility; Crystallization; Dilatometry; Heat engine; Melting; Polymers; Rubber; *1083*. **SP305-1.**
- Stark rubber; Chain folding; Contractility; Crystallization; Dilatometry; Heat engine; Melting; Polymers; Rubber; *1013*. **SP305-1.**
- Stark rubber; Crystal size; Crystallized rubber; Heating rate; Melting range; Melting temperature; Oriented; Partial melting; Recrystallization; Rubber; Slow melting; *J.71A3-4*, 225-229 (1967). **SP305.**
- Stark rubber; Crystallized rubber; Crystal size; Heating rate; Melting range; Melting temperature; Oriented; Partial melting; Recrystallization; Rubber; Slow melting; *11436*. **SP305-2.**
- Stark shifts; Stark widths; Critically evaluated data; Experimental; Ionized spectra; Stark broadening parameters; *JPCRD No. 2*, 259-308 (1976). **SP305-8.**
- Stark shifts; Stark widths; Nitrogen; Plasma line broadening; Spectral lines; Stark broadening; *16406*. **SP305-8.**

spectrum; Surface excitons; Bulk excitons; Electron loss spectroscopy; Ionic crystals; Madelung potential;  $Mg^{+}$ ;  $Mg^{2+}$ ; *IO*, SP455, pp. 59-65 (Nov. 1976). **SP305-8.**

widths; Critically evaluated data; Experimental; Ionized spectra; Stark broadening parameters; Stark shifts; *IPCRD* 5, 2, 259-308 (1976). **SP305-8.**

widths; Nitrogen; Plasma line broadening; Spectral lines; Stark broadening; Stark shifts; *16406*. **SP305-8.**

-broadening; Asymmetries; Hydrogen lines; Line shifts; *592*. **SP305-6.**

-broadening; Emission coefficient; Hydrogen; Hydrogen continuum; LTE; Spectral radiance standard; *J75A No. 4, 10-333* (1971). **SP305-3.**

-broadening; Time-ordering; Unified theory; Lyman- $\alpha$ ; *208*. **SP305-3.**

-broadening; Time-ordering; Unified theory; Lyman- $\alpha$ ; *monogr. 121*. **SP305-3.**

-induced red shift; White dwarf spectra; Balmer lines  $H_{\alpha}$ ,  $H_{\beta}$ , and  $H_{\gamma}$ ; Gravitational red shift; Stark broadening; *226*. **SP305-3.**

light; Airglow continuum; Diffuse starlight; Galactic light; light; *11097*. **SP305-2.**

Chromospheres; Line formation; Radiative transfer; *052*. **SP305-8.**

chromospheres; Stars, late type; Ultraviolet, spectra; *031*. **SP305-8.**

late type; Interstellar matter; Line profiles; *15911*. **SP305-8.**

late type; Ultraviolet, spectra; Stars, chromospheres; *031*. **SP305-8.**

Architecture; Buildings; Design; Energy; Legislation; *lar*; *NBSIR 76-1082*. **SP305-8.**

Authority; Building; Energy; Legislation; Regulations; *NSIR 75-747*. **SP305-7.**

Authority; Building; Energy; Legislation; Regulations; *NSIR 76-986*. **SP305-8.**

and federal laws and regulations; Labeling; Metric system; packaging; Size rationalization; *14628*. **SP305-6.**

and local government; Systems analysis; Technology lization; Vote-tallying; Computer security; Computing hnology; Election administration; Public administration; *NSIR 75-687*. **SP305-7.**

authority; Weights and measures; NBS authority; Package ntrol; *9808*. **SP305-1.**

energy regulations; Energy conservation; Energy standards for mechanical systems; Heating and air-conditioning stems; *15713*. **SP305-8.**

government; Bid evaluation; Experimental Technology Initiatives Program (ETIP); Innovation; Life cycle costing; ical government; Procurement policy; *NBS-GCR-ETIP 76-7*. **SP305-8.**

governments; Systems analysis; Design criteria; Fire zards; Fire losses; Fire reporting; Fire safety; Information stems; National Fire Data System; Specifications; *NBS-CR-73-5*. **SP305-8.**

laboratories; Volume measurements; Length measurements; Mass measurements; Metrology; Standards; *SP335*, 89-94. **SP305-3.**

law; Architectural glazing; Codes; Consumer Product fety Committee; Consumer Safety Glazing Committee; glazing; Impact tests; Safety glazing; Standards; *NBSIR 76-09*. **SP305-8.**

measurement centers; State standards; Calibration and easurement; Instruments; Length; Mass; *10085*. **SP305-1.**

measurements; Thermochemistry; Calorimetry; Chemical ergy; Chemical thermodynamic data; Energy scale hemical; Equilibrium measurements; Mass spectrometry; easurement system; Spectroscopy; *15450*. **SP305-7.**

State of the art; Benefit-cost analysis; Transportation economics; Transport systems; Systems analysis; *TN294*. **SP305.**

State of the art; Capacitance; Inductance; Impedance and admittance; Measurement; Radio frequency; Resistance; Standards; *9795*. **SP305-1.**

State of the art; Strain; Strain gage; Extensometer; Historical; Measurement; *10458*. **SP305-1.**

State of the art survey; Functional requirements; Patrol cars; Performance of patrol cars; Police patrol cars; Problems with patrol cars; *15826*. **SP305-8.**

State of the art survey; Functional requirements; Patrol cars; Performance of patrol cars; Police patrol cars; Problems with patrol cars; *NBSIR 75-960*. **SP305-8.**

State of Washington; Washington State; Washington State Fisheries; Fisheries; Fishery; Fishery modeling; Mathematical modeling; Regulatory analysis; Resource management; Salmon fisheries; Salmon fishery modeling; Simulation; *NBSIR 75-745*. **SP305-7.**

State parameters; Stellar atmosphere; Thermodynamic equilibrium; Collisional processes; LTE; Radiation field; *10957*. **SP305-2.**

State parameters; Stellar atmosphere; Thermodynamic equilibrium; Collisional processes; LTE; Radiation field; *10958*. **SP305-2.**

State regulation; Building codes; Certification; Compliance assurance; Evaluation; Inspection; Manufactured building; Model documents; NCSBCS; Standards; *B5587*. **SP305-8.**

State regulations; Building codes; Factory-built housing; Industrialized building; Inspection; Manufactured building; Model codes; Model documents; NCSBCS; On-site construction; Prefabricated construction; Standards; State-local relationship; *NBS-GCR-74-27*. **SP305-8.**

State specifications and standards; Index of State specifications and standards; Key-Word-In-Context index of State specifications and standards; Purchase specifications and standards, State; Specifications, State; Standards, State; *SP375*. **SP305-5.**

State standards; Calibration and measurement; Instruments; Length; Mass; State measurement centers; *10085*. **SP305-1.**

State-local relationship; State regulations; Building codes; Factory-built housing; Industrialized building; Inspection; Manufactured building; Model codes; Model documents; NCSBCS; On-site construction; Prefabricated construction; Standards; *NBS-GCR-74-27*. **SP305-8.**

Statement of the whole problem; User needs; Analytical procedures; Architectural programming; Buildings; Performance requirements; Problem seeking; *SP361, Vol. 1*, pp. 43-55. **SP305-4.**

State-of-art study; Building regulation; Evaluation; Inspection; Manufactured building; Mobile homes; Model documents; *TN775*. **SP305-5.**

State-of-the-art; Modules; Nuclear instruments; Progress; Standards; *9209*. **SP305.**

State-of-the-art; Modules; Nuclear instruments; Progress; Standards; *9646*. **SP305-1.**

State-of-the-art; Survey; Automated measurements; Computer; Concepts; Reliability; *14738*. **SP305-7.**

State-of-the-art reviews; Acceptability; Coding; Costs; Data transmission systems; Decisionmaking; Economics; Errors; Information theory; Input-output devices; Interfaces; Malfunctions; Man-machine systems; Remote control systems; Systems engineering; *NBS-GCR-74-29*. **SP305-8.**

State-of-the-art study; Automatic data processing; Building codes; Building regulations; Computer applications; Computers; Enforcement; Evaluation; Information systems; Microfilm; Microform; *NBS-GCR-74-26*. **SP305-8.**

State-of-the-art study; Building regulation; Enforcement; Evaluation; Inspection; Legislation; Manufactured building; Mobile homes; Rules and regulations; *TN853*. **SP305-6.**

State-of-the-art study; Enforcement; Legislation; Mobile homes; Regulation; Standards; *NBSIR 75-680. SP305-7.*

States; Abstract; Compromise; Ineffectiveness; Measurements; Radiation; Regulations; *SP456*, pp. 31-36 (Nov. 1976). **SP305-8.**

States; Building codes; Cities; Health and safety; Historic preservation; *TN918. SP305-8.*

States; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; National government; Representations and codes; Standards; *FIPS PUB. 5-1. SP305-2.*

States; Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; Representations and codes; Standards; *FIPS PUB. 10. SP305-2.*

States; Training; Weights; Laboratory; Measure; Standards; *10086. SP305-1.*

States of the United States; Federal Information Processing Standard; *FIPS PUB 5. SP305-1.*

States—standardization activities; Test methods; Codes; Consensus system; Directory; Federal Government—standardization; Industry standards activities; National standards activities; Recommended practices; Specifications; Standardization activities; Standards; *SP417. SP305-7.*

Static; Structural engineering; Subsystems; Vibration; Analysis; Deflection; Design; Dynamic; Experimental; Human sensitivity; Loading functions; Specifications; *B5547. SP305-5.*

Static; Vibration; Deflection; Dynamic; Floor systems; Human responses; Performance criteria; Serviceability; *TN900. SP305-8.*

Static analysis; Testing software; Dynamic analysis; Proof of correctness; Software reliability; *14640. SP305-6.*

Static analysis; Transforms; Execution; Execution monitoring; FORTRAN analysis; Source code instrumenting; *15918. SP305-8.*

Static charge; Test methods; Water resistance; Wear; Carpets; Cleanability; Conducting; Durability; Flooring; Identification; Resilience; Slip resistance; *SP361, Vol. 1*, pp. 799-806. **SP305-4.**

Static coefficient of friction measurement; Floor slipperiness; Slipperiness tester; *U.S. Patent 3,975,940. SP305-8.*

Static crush tests; Strain measurements; Structural components; Test procedures; Automobile side impact; Crush characteristics; Displacement measurements; Door structure; Drop tests; Dynamic crush tests; Impact collisions; Plastic deformation; *NBSIR 74-605. SP305-7.*

Static dielectric constant; Dielectric constant; Dielectric loss; Permittivity; *J. Phys. Chem. Ref. Data 2*, No. 2, 313-409 (1973). **SP305-6.**

Static dipole polarizability; Variation method; Carbon ( $^{12}\text{C}$ ); Carbon ( $^{13}\text{C}$ ); Carbon ( $^{15}\text{C}$ ); Multiconfiguration; *12937. SP305-4.*

Static expansion; Thermal transpiration; Vapor-stream pumping; Viscosity gauge; Capacitance-diaphragm gauge; Knudsen radiometer; McLeod gauge; Micromanometry; Quartz Bourdon gauge; *14933. SP305-7.*

Static fatigue; Ceramics; Crack healing; Crack propagation; Cyclic fatigue; Failure prediction; High temperature; *NBSIR 74-442. SP305-6.*

Static fatigue; Ceramics; Crack healing; Crack propagation; Cyclic fatigue; Failure prediction; High temperature; *15422. SP305-7.*

Static fatigue; Cleavage; Corrosion; Crack propagation; Fracture; Glass; *10128. SP305-1.*

Static fatigue; Cleavage; Crack propagation; Cracks; Delayed failure; Fracture; Glass; *10722. SP305-1.*

Static fatigue; Strength; Crack growth; Fracture; Glass; *NBSIR 74-485. SP305-6.*

Static fatigue; Strength; Crack growth; Fracture; Glass; *15422. SP305-7.*

Static fatigue; Strength; Crack growth; Fracture; Fracture mechanics; Glass; *15821. SP305-8.*

Static fatigue; Strength; Fracture; Glass; High pressure; *1251. SP305-4.*

Static fatigue; Stress corrosion; Crack propagation; Fracture; Glass; *11992. SP305-3.*

Static fatigue; Stress corrosion; Ceramics; Crack growth; Delayed failure; Fracture; Glass; Sapphire; *11193. SP305-1.*

Static fatigue; Stress corrosion; Fracture; Glass; Proof test; *14576. SP305-6.*

Static fatigue; Stress corrosion; Surface energy; Crack propagation; Fracture surface energy; Glass; Soda-lime glass; *1011. SP305-1.*

Static fatigue of glass; Strength of glass; Stress corrosion cracking of glass; Structure of glass; Cracked propagation; Glass; Glass; Glass fibers; Hardness of glass; *13711. SP305-5.*

Static fatigue of GRP; Aeolian vibration, simulated; Composite materials; End fittings for GRP rod and rope; Grips; Guys; antenna; Humidity, effects on GRP; Mechanical properties of GRP; Pultruded rod; Reinforced plastics, rod and rope; *13392. SP305-5.*

Static fatigue; Structural design; Windows; Crack growth; Fracture mechanics; Glass; *14284. SP305-6.*

Static field scattering; Atom-atom collisions; Electron-atom collisions; *10959. SP305-2.*

Static loads; Stiffness; Structural safety; Design; Dynamic loads; Guardrails; Industrial accidents; Nonstructural safety; Occupational hazards; Performance standard; Personnel rail; Personnel safety; *NBSIR 76-1131. SP305-8.*

Static loads; Test equipment; Compression tests; Dynamic loads; High-speed photography; Indicating instruments; Indicator characteristics; Loading rate; Loads (forces); Motion picture cameras; Photographic equipment; *12080. SP305-3.*

Static mechanical properties; Thermal properties; Cryogenic dynamic mechanical properties; Glass-fiber composites; Literature review; *15170. SP305-7.*

Static mechanical properties; Thermal properties; Advanced fiber composites; Cryogenics; Dynamic mechanical properties; Literature review; *15667. SP305-7.*

Static potential; Vibrational excitation; Close-coupling calculations; Crossed beams; Cross sections; Differential cross sections; Electron scattering; Inelastic scattering; Nitrogen molecules; Polarization potential; Scattering; *16533. SP305-8.*

Static pressure; Weatherproof pressure probe; Wind field pressure measurements; Ambient pressure probe; C nondirectional pressure probe; Pressure probe shroud; *U.S. Patent 3,950,995. SP305-8.*

Static pressure division; Vacuum measurements accurate; Vacuum standards; Absolute vacuum reference standard; Dynamic pressure division; Manometry; McLeod gauge; *12677. SP305-4.*

Static pressures; Wind effects; Wind tunnel modeling; Architectural features; Buildings; Mullions; Parapets; Roof projections; *B5530*, pp. 73-86. **SP305-3.**

Static scaling; Critical exponents; Critical phenomena; Dynamic analysis; Magnetic solids; Nonlinear least-squares; Phase transitions; Specific heat; *J. Phys. Chem. Ref. Data 2*, No. 11-24 (1973). **SP305-6.**

Static software analysis; Structured programming; Systems; System performance; Theorem-proving; Compiler; Computer network; Documentation; Dynamic software analysis; Interpreter; Quality control; Software testing; Software verification; *TN800. SP305-6.*



stability; Test weight; Tilt angle; Toy testing; Abuse test; Dynamic stability; Hazards; Obstruction; Riding toys; *irway; NBSIR 74-623. SP305-7.*

Tests; Airport approach and threshold lights; Glass prism; pact tests; Light bases; Optical cover assembly; Photomet- measurements; *NBSIR 75-647. SP305-7.*

ary models; Flicker noise; Frequency; Frequency stabi- Oscillators; Phase noise; *TN683. SP305-8.*

ary phase; Watson's lemma; Asymptotic approximations; or analysis; Generalized integrals; Special functions; *099. SP305-6.*

ary stochastic process; Fluctuation-dissipation theorem; angevin equation; *11080. SP305-2.*

tical; Burnett; Gas; Model dependency; Nonlinear; PVT; *932. SP305-3.*

tical; Flicker; Model; Noise; *9553. SP305-1.*

tical analysis; Astrophysics; Atomic physics; Error func- ns; Indefinite integrals; Special functions; *J.73B No. 1, 1- (1969). SP305-1.*

tical analysis; Automatic printing; Bessel functions; Data alysis; Data manipulation; Easy and effective programming English; List of instructions; Matrix operations; Numerical alysis; OMNITAB II user oriented computing system; Self- aching; *TN552. SP305-3.*

tical analysis; Bail; Criminal justice; Dangerousness; Data llection; Prediction; *14665. SP305-6.*

tical analysis; Binary liquid mixtures; Coexistence curve; onsoluble point; Critically evaluated data; Critical point; itical point exponent; Diameter; Power law; *J. Phys. Chem. f. Data 2, No. 3, 443-466 (1973). SP305-6.*

tical analysis; Building materials; Fire tests; Interlaborato- tests; Optical density; Round robin; Smoke; Smoke density amber; *TN708. SP305-3.*

tical analysis; Categorical data; Contingency tables; ginear model; Minimum discrimination information; *8852. SP305-7.*

tical analysis; Critical coefficients; Critical exponents; ritical region; Density profile; Dielectric constant; Linear odel; Oxygen; Scaling laws; *14772. SP305-7.*

tical analysis; Flicker noise; Phase fluctuations of VLF and LF transmissions; *14273. SP305-6.*

tical analysis; Statistical concepts; Industrial metrology, easurement process; *9861. SP305-1.*

tical analysis; Steam; Universality; Air constituents; Criti- cal region parameters; Ethylene; Heavy noble gases; Helium; near model; Methane; NBS equation; Scaling laws; *15601. SP305-7.*

tical analysis; Steam; Universality; Air constituents; Criti- cal region parameters; Ethylene; Heavy noble gases; Helium; near model; Methane; NBS equation; Scaling laws; *JPCRD , No. 1, 1-52 (1976). SP305-8.*

tical analysis; Storms; Structural engineering; Wind loads; Wind speeds; Building codes; Probability distribution func- ion; Reliability; Risk; *15558. SP305-7.*

tical analysis; Storms; Structural engineering; Wind loads; Wind speeds; Building codes; Extreme value distributions; Hurricanes; Probability distribution functions; Reliability; Risk; *TN868. SP305-7.*

tical analysis; Storms; Structural engineering; Wind pres- sure; Wind speed; Buildings (codes); Hurricanes; Probability distribution functions; Reliability; Risk; *16545. SP305-8.*

tical analysis; Structural engineering; Wind loads; Wind nnel modeling; Aeroelasticity; Buildings; Dynamics; *BSS30, pp. 107-114. SP305-3.*

tical analysis; Structural engineering; Failure; Probability heory; Random process; Safety; *SP444, pp. IV-1-IV-15 (Apr. 1976). SP305-8.*

tical analysis; Teaching sample; Word-term pairing; Auto- matic indexing; COBOL; Document records; Programming; *12858. SP305-4.*

Statistical analysis; Test method standard; ASTM E 84; Build- ing materials; Carpets; Fire tests; Flame spread tests; Inter- laboratory evaluation; Round robin; *13530. SP305-5.*

Statistical analysis; Trend elimination; Calibration; Calibration design; Experiment design; Instrumental drift; Measurement process; *TN844. SP305-6.*

Statistical analysis; Virial coefficients; Density expansion; Gas thermometry; Power series coefficients; PVT; *10601. SP305-1.*

Statistical analysis; Viscosity coefficient; Argon; Correlated molecular collisions; Density expansions; Fluorine; Oxygen; *15141. SP305-7.*

Statistical analysis; Wind loads; Buildings; Full-scale tests; In- strumentation; Pressure fluctuations; *14455. SP305-6.*

Statistical association; Automatic character recognition; Auto- matic classification; Automatic content analysis; Automatic indexing; Automatic pattern recognition; Key word indexing; Linguistic data processing; Question-answering; *11140. SP305-2.*

Statistical calculations; Instruction list; Iteration; Memory re- gister; Operational stack; Pop-up; Polish notation; Push- down; Radioactivity and isotopic calculations; Recursion; *13740. SP305-5.*

Statistical computation; Table making; Accuracy of computa- tion; Computing for nonprogrammers; Computing system; Data analysis; Least squares computation; OMNITAB com- puting system; *11708. SP305-2.*

Statistical computing; Text editing; Computer applications; OMNITAB II; Minitab; *NBSIR 75-649. SP305-7.*

Statistical concepts; Control chart; Data analysis; Measure- ment process; Metrology; Precision; Propagation of error; Standard deviation; *11797. SP305-2.*

Statistical concepts; Industrial metrology, measurement process; Statistical analysis; *9861. SP305-1.*

Statistical concepts in measurements; Systematic error; Accu- racy; Analysis of measurement data; Design of experiments; Functional relationships; Interlaboratory tests; Measurement process; Precision; *SP300, Volume 1. SP305-1.*

Statistical consultation; Statistics; Consulting; *10861. SP305-1.*

Statistical control; Calibration; Capacitance; Capacitance, mea- surement; Coaxial capacitance standards; Impedance, mea- surements, capacitance; Standards; *TN386. SP305-2.*

Statistical control; Statistical design; Test methods; Experimen- tal error; Measurement; *13001. SP305-4.*

Statistical control; Uncertainty; Accuracy; Mass measurement; Measurement; Measurement process; Precision; *Mono. 103. SP305.*

Statistical control processes; Temperature; Acoustic calibrators; A-weighting; Barometric pressure; Crest factor; Ground cover; Humidity; Instrumentation; Microphones; Sound level meters; *TN931. SP305-8.*

Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Stan- dards; Geography; Information processing standards; Infor- mation systems; National government; Representation and codes; *FIPS PUB 6-2. SP305-5.*

Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Stan- dards; Geography; Information processing standards, Infor- mation systems; Representations and codes; Standards; *FIPS PUB 10-1. SP305-6.*

Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Stan- dards; Geography; Information processing standards, Infor- mation systems; National government; Representations and codes; *FIPS PUB 6-1. SP305-2.*

Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Stan- dards; Geography; Information processing standards; Infor-

- mation systems; National government; Representations and codes; Standards; States; *FIPS PUB. 5-1. SP305-2.*
- Statistical data; ADP standards; Computers; Data elements and codes; Data processing; Federal Information Processing Standards; Geography; Information processing standards; Information systems; Representations and codes; Standards; States; *FIPS PUB. 10. SP305-2.*
- Statistical data; Burns; Case histories; Curtains; Death; Draperies; FFACFS; Fires; Flammable fabrics; Houses; Standards; *NBSIR 73-234. SP305-6.*
- Statistical design; Test methods; Experimental error; Measurement; Statistical control; *13001. SP305-4.*
- Statistical design; Youden square; Block design; Design of experiments; Experimental design; Factorial design; Latin square; *10618. SP305-1.*
- Statistical design of experiments; Systematic error; Youden's burette experiment; Accuracy; Analysis of variance; Measurement process; Precision; Regression line; Scheduling measurements; *15257. SP305-4.*
- Statistical distributions; Tables of probability distributions; Transformation of variables in probability distributions; Bayes' theorem; Central limit theorem; Characteristic function of a distribution; Mathematical probability; Mean values of random variables; *10926. SP305-2.*
- Statistical dynamics; Statistical mechanics; Coupled harmonic oscillators; Momentum autocorrelation function; *9389. SP305.*
- Statistical education in the United States; Statistical tolerance limits; U.S. Army programs in statistics; U.S. Government, services to; Wilks award; Wilks, S. S.; *Annals of Mathematical Statistics*; bibliography; Distribution-free methods; *16114. SP305-8.*
- Statistical equilibrium; Configurational thermodynamic properties; Excluded volume; Extrapolations; Lattice models; Non-combinatorial method; *11880. SP305-3.*
- Statistical error analysis; X-ray line shapes; X-ray spectra; X-ray wavelength criteria; Lattice constants; Peak intensity; Physical constants; Spectral line profiles; *J.72A No. 2, 187-205 (1968). SP305-1.*
- Statistical estimation; Biometrics; Exponential model; Non-linear estimation; Statistics; *10526. SP305-1.*
- Statistical estimation; Weighted means; Wild observations; Asymptotic theory; Efficiency; Median; Order statistics; Probability distributions; Robust estimators; *10229. SP305-1.*
- Statistical evaluation; Strength; Sulfate expansion; Trace elements; Alkalies; Concrete; Durability; Heat of hydration; Portland cements; Shrinkage; *11863. SP305-3.*
- Statistical experiment designs; Tournaments; Weighing designs; Calibration; Calibration designs; Combinatorial analysis; Difference sets; Incomplete block designs; *J.71B4-237, 149-160 (1967). SP305.*
- Statistical limitations; Age resolution; Extraneous random errors; Factor of merit components; Method performance characteristics; Minimum and maximum detectable ages; Radiocarbon dating; *13875. SP305-6.*
- Statistical mechanical ensembles; Thermodynamic properties; Three body forces; Methane; Molecular dynamics; Potential function; Specific heat; *15310. SP305-7.*
- Statistical mechanical theory; Transport properties; Current autocorrelations; Nonlocal effects; Noninstantaneous effects; Nonlinear effects; *12668. SP305-4.*
- Statistical mechanics; Brownian motion; Momentum autocorrelation function; *10030. SP305-1.*
- Statistical mechanics; Clausius-Mossotti function; Dielectric virial coefficients; M-6-8 potential; Polarizability; Polyatomic gases; Pressure second virial coefficients; Quadrupole moment; *13593. SP305-5.*
- Statistical mechanics; Coupled harmonic oscillators; Momentum autocorrelation function; Statistical dynamics; *9389. SP305.*
- Statistical mechanics; Diffusion coefficients; Momentum correlation function; *9376. SP305.*
- Statistical mechanics; Intermolecular potential; Second virial coefficient; Quantum mechanics; Hydrogen; Equation of state; *TN412. SP305.*
- Statistical mechanics; Thermal conduction; Thermal transport coefficient; Wave transmission in random media; Harmonic crystal; Heat transport; Isotopic disorder; Kapitza resistance; Scattering theory in one-dimension; *128. SP305-4.*
- Statistical mechanics; Thermodynamics; Lennard-Jones gas; 6) intermolecular potential; Quantum corrections; Secular virial coefficient; *J.75A No. 1, 57-89 (1971). SP305-3.*
- Statistical mechanics; Thermodynamics of phase changes; Critical phenomena in liquid vapor systems; Liquid vapor systems; *9755. SP305-1.*
- Statistical mechanics; Viscosity; Boltzmann gas; Cross-section for viscosity; Hard sphere gas; Quantum corrections; *123. SP305-3.*
- Statistical mechanics of polymers; Polymer statistics; *140. SP305-6.*
- Statistical methods; Calibration; Check standard; Control charts on precision measure; Data analysis; Design of experiments; Reporting of results; Standards; *14394. SP305-6.*
- Statistical methods; Continuum mechanics; Dislocation theory; *SP317, pp. 785-816. SP305-3.*
- Statistical methods; Dislocations; Elasticity; *SP317, pp. 11-1193. SP305-3.*
- Statistical methods; Statistics; Tests of distribution hypotheses; Correlation coefficient; Medians; Normal distribution; Order statistics; Probability plot; *14856. SP305-7.*
- Statistical methods; Zinc; Atomic absorption; Cadmium; Copper; lead; Manganese; Sensitivity; Spectrophotometry; *SP422, pp. 1023-1033 (Aug. 1976). SP305-8.*
- Statistical methods for dislocations; Line broadening; Optimal zero phonon line; Spin resonance; *SP317, pp. 1169-11. SP305-3.*
- Statistical methods for dislocations; Diffraction profiles; Dislocation diffraction; Kinematic x-ray diffraction; *SP317, 1195-1221. SP305-3.*
- Statistical model; Total cross section; Capture cross section; Elastic and inelastic scattering cross sections; Evaluation; Ionization product; Optical model; Resonance cross section; *SP425, pp. 320-323. SP305-7.*
- Statistical model; Zirconium hydrides; Beta zirconium hydride; *9302. SP305.*
- Statistical model calculations;  $^{238}\text{U}(n,2n)$ ,  $E \approx 13-18$  MeV; Measured  $\sigma(E)$ ; Nuclear reactions  $^{12}\text{C}(n,2n)$ ,  $E \approx 23-100$  MeV; *SP425, pp. 819-822. SP305-7.*
- Statistical model codes; Applications to CTR; Cross-section calculations; Fast neutron reactions; Gamma-ray production; Isomers; Radiation widths; *SP425, pp. 651-658. SP305-7.*
- Statistical models; Absolute absorptivities; Continuum model; Diffuse reflectance; Radiative transfer; Reflectance spectra; Scattering coefficients; *J. Res. 80A No. 4, 567-583 (1975). SP305-8.*
- Statistical moments; Chromatography; *13086. SP305-5.*
- Statistical nature of strength; Ultrasonic cutting; Weibull distribution; Abrasion; Brittle-ductile transition; Erosion; Fracture location; Ring cracking; Shaping; Size-effect; *SP348, 119-131. SP305-4.*
- Statistical physics; Thermal conductivity; Transport properties; Disordered one-dimensional crystal; Multiple scattering; *12376. SP305-3.*
- Statistical physics; Transmission coefficient; Defects in ionic crystal; Functional equation; Many-body problem; Multiple scattering; *12375. SP305-3.*
- Statistical problem solving; Distribution of first significant digit; Dutch; Graeco-Latin square; Language translation; Natural

- language: OMNITAB II computing system; Regression; 120. **SP305-5.**
- Statistical properties; Time intervals; Noise; signal; Photomultiplier; Signal noise ratio; 9232. **SP305.**
- Statistical properties; Turbulence; Velocity-gradients; Boundary layer; Grid; Intermittency; moments; 15116. **SP305-7.**
- Statistical relationships; Bail; Criminal court data; Criminal justice system; Dangerousness; Data collection problems and procedures; District of Columbia; Judicial system; Prediction research; Pre-trial release; Preventive detention; Recidivism; 9535. **SP305-2.**
- Statistical room acoustics; Acoustics; Noise; Reverberation time; Sound power; 7841. **SP305-6.**
- Statistical standards; Automatic data processing equipment; confidentiality audits; Disaggregation; Disclosure criteria; Federal statistical system; Inherent computability; Matching; probability master samples; Propagation of error computations; 9247. **SP305.**
- Statistical standards; Automatic data processing equipment; disaggregation; Federal statistical system; Inherent computability; Matching; Probability master samples; Propagation of error computations; 9742. **SP305-1.**
- Statistical techniques; Youden plot; Youden squares; Youden, W. J.; Calibration designs; Chain blocks; Collaborative tests; Diagnostic tests, index for rating; Experiment design, statistical; Graphical diagnosis; Interlaboratory tests; Randomization, constrained; 16115. **SP305-8.**
- Statistical test; William Buckley; Abraham De Moivre; *Annui-ies upon Lives*; "Argument for Divine Providence"; *Arithmetica Memorativa*; Bernoulli's theorem; *Doctrine of Chances*; Generating functions; John Wallis; 9695. **SP305-1.**
- Statistical tests; Efficiency of tests; Median significance level; Significance level; 11345. **SP305-2.**
- Statistical tests; Testing; Detection models; Detections; Generalized Poisson process; 14717. **SP305-6.**
- Statistical theory; Actinide nuclei; Fast-neutron-induced fission; Fission; Fission fragment; Fission product; Kinetic energy; Mass yield; Prompt neutron; Scission point; 5425. pp. 342-345. **SP305-7.**
- Statistical theory of dislocation; Thermal acceleration; Arrhenius rate theory; Dislocation dynamics; 5317. pp. 1065-1076. **SP305-3.**
- Statistical theory of rubber elasticity; Thermodynamics of rubber elasticity; Cross-linking of rubber; Dicumyl peroxide; Elasticity theory of rubber; Entropy component; Gel point; Modulus of rubber; Rubber elasticity; 177A No. 1, 171-177 (1973). **SP305-5.**
- Statistical theory of rubber elasticity; Swelling of rubber network; Cross-linking of rubber; Dicumyl peroxide; Elasticity theory of rubber; Entanglements in rubber; Gel point; Modulus of rubber; *J. Res. 80A* No. 3, 451-463 (1976). **SP305-8.**
- Statistical thermodynamics; Formation enthalpy; Formation entropy; Formation free energy; Formation volume; Ionic solids; Metals; Noble gas solids; Point defects; Semiconductors; 12966. **SP305-4.**
- Statistical thermodynamics; Supercritical component; Van der Waals/Percus and Yevick; Henry's constants; Liquid mixtures; Partition function; Phase equilibria; 11403. **SP305-2.**
- Statistical tolerance limits; U.S. Army programs in statistics; U.S. Government, services to; Wilks award; Wilks, S. S.; *Annals of Mathematical Statistics*; bibliography; Distribution-free methods; Educational testing; Mathematical statistics; 16114. **SP305-8.**
- Statistical tolerance limits; Wilks, S. S.; Wishart, John; Annals of Mathematical Statistics; Army Experiment Design Conferences; Dodd, E. L.; Educational testing; History of mathematical statistics in the U.S.A.; Hotelling, Harold; 15513. **SP305-7.**
- Statistical validity; Two-method optimization; Data support; Fixed calibration interval; Instrument reliability; 5335. pp. 73-79. **SP305-3.**
- Statistical weighting; Thermodynamic properties; Constraints; Equation of state; Fluid; Least squares; Parameter estimation;  $p-V-T$ ; 15132. **SP305-7.**
- Statistical weights; 14 MeV neutron activation; Counting precision; Excess variability; Limiting precision; Photonic nuclear chemistry; Poisson statistics; Single and multiple parameter nuclear analyses; 13694. **SP305-5.**
- Statistical-bead model; Autocorrelation; Correlation; End-to-end length; Fokker-Planck equation; Polymer chain dynamics; Radius of gyration; Relaxation; 9515. **SP305.**
- Statisticians, 1966, 1967; Anniversaries; 9307. **SP305.**
- Statistics; Acceptance tests; Confidence intervals; Criminalistics; Errors; Goodness of fit; Normal distribution; Significance tests; Standards; 15279. **SP305-7.**
- Statistics; Accidents; Burns; Children; Clothing fires; Deaths; FFACS; Fire; Flammable fabrics; Injury; Sleepwear; Standards; 7810. **SP305-5.**
- Statistics; Aluminum alloys; Cryogenic; Electrical resistivity; Low temperature; Material variability; Nickel alloy; Stainless steels; 13215. **SP305-5.**
- Statistics; Analysis of variance; Computer programs; Gram-Schmidt orthogonalization; Householder transformations; Ill-conditioned test problems; Iterative refinement; Least squares computations; Linear equations; OMNITAB; Regression; Rounding errors; 13981. **SP305-6.**
- Statistics; Analytical chemistry; Curve fitting; Data reduction; Feature selection; Multivariate analysis; Optimization techniques; Pattern recognition; Signal processing; Spectral resolution; 15964. **SP305-8.**
- Statistics; Analytical chemistry; Data analysis; Design of experiments; 16652. **SP305-8.**
- Statistics; Atomic frequency standards; Atomic time; Stability; 9552. **SP305-1.**
- Statistics; Background; Electrical detection; Electrical discharge; Ion probe; Ion sensitive plates; Mass spectrometry; Pelletizing; Precision; Relative sensitivity; Sample homogeneity; Solids; 10814. **SP305-1.**
- Statistics; Bernoulli; Binomial; Coin-tossing; Computer; Efficiency; Generator; Random numbers; 176B Nos. 1 and 2, 53-60 (1972). **SP305-4.**
- Statistics; Bibliography; Computer indexing; Index; Key word in context; KWIC; Permuted title index; 5321. **SP305-2.**
- Statistics; c Sample problem; Covariances; Mann-Whitney-Wilcoxon statistics; Rank sum statistics; 176B Nos. 1 and 2, 51-52 (1972). **SP305-4.**
- Statistics; Camouflage; Design of experiment; Null responses; Paired comparisons; Sign test; 14042. **SP305-6.**
- Statistics; Children; Flammable fabrics; Sleepwear; Standards development; 5411. **SP305-6.**
- Statistics; Children; Flammable fabrics; Sleepwear; Standards development; 5411, pp. 5-16. **SP305-6.**
- Statistics; Computer programs; Fourier analysis; Nickel steels; X-ray analysis; X-ray diffraction; 7609. **SP305-3.**
- Statistics; Consulting; Statistical consultation; 10861. **SP305-1.**
- Statistics; Correlation coefficient; Data analysis; Distribution analysis; Estimation; Fortran subroutine; Lambda distribution; Medians; Normality; Order statistics; Probability plot correlation coefficients; Probability plots; 14341. **SP305-6.**
- Statistics; Curve-fitting; 10026. **SP305-1.**
- Statistics; Least squares; Robust techniques; 14554. **SP305-6.**
- Statistics; Mean deviation; Range; Samples of size 3; 11007. **SP305-2.**
- Statistics; Pierre de Fermat; Gregor Mendel; Isaac Todhunter; Anniversaries; History; Probability; 9156. **SP305.**
- Statistics; Statistical estimation; Biometrics; Exponential model; Non-linear estimation; 10526. **SP305-1.**

- Statistics; Strength; Crack propagation; Error analysis; Failure prediction; Failure prevention; Fracture; *16617*. **SP305-8.**
- Statistics; Strength; Crack propagation; Error analysis; Failure prediction; Failure prevention; Fracture; *NBSIR 75-952*. **SP305-8.**
- Statistics; Structure; Building; Explosion; Frequency; Gas; Gas industry; Progressive collapse; Risk; *13782*. **SP305-5.**
- Statistics; Student-*t*; Table of Student-*t*; Uncertainties; Standard deviation; *173C Nos. 1 and 2, 15-16 (1969)*. **SP305-1.**
- Statistics; Survey; Lead; Lead paint poisoning; Paints; Poisoning; Retail inventory; *NBSIR 73-407*. **SP305-6.**
- Statistics; Syndrome; Accuracy; Analytical chemistry; Standard reference material; *SP422*, pp. 123-126 (Aug. 1976). **SP305-8.**
- Statistics; Tables; Tukey's lambda distributions; Approximations; Distributions, non-normal; Lambda distributions; Logistic distribution; Order statistics; Range; *12603*. **SP305-4.**
- Statistics; Tables for Statisticians and Biometricians; W. F. R. Weldon; Bibliography; *Biometrika*; Chi-square tests; Correlation; regression; R. A. Fisher; Francis Galton; Frequency curves, method of moments; Karl Pearson; *14822*. **SP305-7.**
- Statistics; Tables of PBIB designs; Analysis of PBIB designs; Experiment designs; Finite fields; Finite geometries; Finite projective planes; Incidence matrices; Incomplete block designs, partially balanced; Mathematics; *AMS53*. **SP305-5.**
- Statistics; Temperature coefficient; Auto headlamp glass; Population; Refractive index; RI variance; *15086*. **SP305-7.**
- Statistics; Test variability; Acceptance sampling; Letter; Quality control; Sampling; *9922*. **SP305-1.**
- Statistics; Tests of distributional hypotheses; Correlation coefficient; Medians; Normal distribution; Order statistics; Probability plot; Statistical methods; *14856*. **SP305-7.**
- Statistics; Tolerance limits; Noncentral *t*-distribution; Normal distribution; *J. Res. 80B No. 3, 343-346 (1976)*. **SP305-8.**
- Statistics; Transforms; Chemical analysis; Curve fitting; Distribution functions; Experiment planning and optimization; Measurement process; On-line computers; Recognition techniques; Review; *14294*. **SP305-6.**
- Statistics; Type I distribution; Distribution of largest values; Efficient estimators; Extreme values; Linear unbiased estimators; *NBSIR 74-602*. **SP305-7.**
- Statistics; Type I distribution; Bias; Efficiency; Extreme values; Linear unbiased estimators; Simplified estimators; *NBSIR 75-637*. **SP305-7.**
- Statistics; Uncertainties; Crystallographic data; Errors; Probability plots; Residuals; *NBSIR 76-1102*. **SP305-8.**
- Statistics; Updating estimates; Data analysis; Mean; Standard deviation; *15640*. **SP305-7.**
- Statistics; Variance; Abscissa; Confidence limits; Glass transition; Intercept; Intersection; Linear; Regression; Second order transition; *J. 76B Nos. 3 and 4, 179-192 (1972)*. **SP305-4.**
- Statistics; Variance components; Weighting; Analysis of variance; Average (weighted); Interlaboratory evaluation; Round robin; Single classification; *11906*. **SP305-3.**
- Statistics; Voltage standard; Control charts; Experiment design; Saturated standard cells; Standard cells calibration; *TN430*. **SP305.**
- Statistics; X-ray; Analytical curves; Analytical functions; Emission spectrometry; Fluorescence spectrometry; Spectrochemical analysis; *11386*. **SP305-2.**
- Statistics; Youden, W. J.; Experiment design; Interlaboratory tests; *13137*. **SP305-5.**
- Statistics; Computing, statistical; Documentation for users; OMNITAB; *TN756*. **SP305-5.**
- Statistics of clock ensembles; White noise; Zero crossings; Clock errors; Dispersion of clock reading; Flicker noise; Random-walk noise; Renewal equation; Renewal processes; *11332*. **SP305-2.**
- Statistics of frequency and time measurements; Time scale; Time synchronizations; TV timing; VLF timing; Atomic beams; Atomic clocks; Atomic standards; Atomic time; Clock synchronization; Coordinated U.T. dissemination frequency and time; *SP300, Volume 5*. **SP305-4.**
- Statistics of time/frequency measurements; Time/frequency dissemination; Time scales; Timing (HF, satellite, TV, VLF); Wavelength standards; WWV; WWV; WWVH; WWVL; Atomic clocks; Atomic standards; Clock dissemination; *SP350*. **SP305-3.**
- Statuses; Bronze statuary; Organic coatings; Restoration; *NBSIR 73-405*. **SP305-6.**
- Status; Future plans; National Standard Reference Data System; Objectives; Operation; *9283*. **SP305.**
- Status and problems; Dislocation observations; Dislocation theory; *SP317*, pp. 5-9. **SP305-3.**
- Status report; Compilation; Critical evaluation; Data; NSR; Physical chemistry; Reference data; *13903*. **SP305-6.**
- Steady and unsteady flow; Tests of absorption, permeability; capillary elevation; Capillary elevation (head); Coefficient permeability; Kinetics of deterioration; Open pores; *SP3 Vol. 1*, pp. 653-668. **SP305-4.**
- Steady control versus sudden change; Managerial breakthrough techniques; Personnel selection for metrology; *SP335*, pp. 88. **SP305-3.**
- Steady-state; Cilia; Conformational entropy; Free energy; Nucleation rate; Rate constants; Self-nucleation; *122*. **SP305-3.**
- Steady-state; Composition; Growth rate; Kinetics; Multiphase; *9472*. **SP305.**
- Steady-state; Thermal; Transient; Absorption; Acoustic; Adiabatic; Fluid; Heat-conducting; Inviscid; Isotherm; Kirchhoff-Langevin equation; Stability; *J74B No. 2, 67 (1970)*. **SP305-2.**
- Steady-state overvoltages; Copper electrodes; Interfacial resistance; Metal-metal oxide electrodes; Oxygen transport; *SP455*, pp. 351-358 (Nov. 1976). **SP305-8.**
- Steady-state x rays; Detector calibrations; Fluorescence x-ray sources; X-ray sources; Pulsed x rays; Radiographic imaging; *SP456*, pp. 41-45 (Nov. 1976). **SP305-8.**
- Steam; Critical density; Critical exponents; Critical pressure; Critical region; Critical temperature; Equation of state; Linear model; Scaled equation; *15730*. **SP305-8.**
- Steam; Steam vapor pressure; Thermodynamic effects; Vapor pressure; Cavitation; Cavity pressure; *14879*. **SP305-7.**
- Steam; Thermal conductivity; Transport properties; Carbon dioxide; Critical phenomena; *13460*. **SP305-5.**
- Steam; Thermodynamic anomalies; Vapor pressure; Argon; Carbon dioxide; Classical equation; Coexistence curve; Critical exponents; Critical point; Lattice gas; Power law; Rectilinear diameter; *11985*. **SP305-3.**
- Steam; Underground piping; Heat distribution; Heating; Hot temperature water; Hot water; Insulation; Piping; *B5566*, pp. 52-59. **SP305-7.**
- Steam; Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; Methane; NBS equation; Scaling laws; Statistical analysis; *15601*. **SP305-7.**
- Steam; Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; Methane; NBS equation; Scaling laws; Statistical analysis; *JPCRD 5, No. 1, 1-52 (1976)*. **SP305-8.**
- Steam; Universality; Critical exponents; Critical region; Homogeneity; Polar fluids; Scaling; *15733*. **SP305-8.**
- Steam; Van der Waals' equation; Ammonia; Dense gases; Equation of state; Hydrogen; Nitrogen; Mercury vapor; Noble gases; Solubility-enhancement; *11742*. **SP305-2.**
- Steam; Vapor pressure; Vapor pressure of water; Virial coefficients; Clapeyron equation; Saturation vapor pressure of water; *J. Res. 80A Nos. 5 and 6, 775-785 (1976)*. **SP305-8.**



- am; Venturi; Water; Critical flow; Pressure profile; *TN608. SP305-3.*
- am; Virial coefficients; Clausius-Clapeyron equation; Saturation vapor pressure over water; Vapor pressure; Vapor pressure of water; Water vapor; *J.75A No. 3, 213-230 (1971). SP305-3.*
- am; Water; Coexistence curve; Compressibility; Critical anomalies; Critical exponents; Critical region; Equation of state; Scaling law; Specific heat; *13059. SP305-5.*
- am curing of portland cement mortars; Trace elements; Accelerated curing of cements; Autoclave curing of portland cement mortars; Chemical composition; Compressive strength if portland cement; Compressive strength of steam-cured cements; Mortars; *BSS8, Sec. 8. SP305-1.*
- am generator; Storage; Temperature equilibrium; Weights; Cleaning; Standards; *NBSIR 74-443. SP305-6.*
- am point; Stefan-Boltzmann law; Thermodynamic temperature scale; Blackbody; Calorimeter; Ice point; *13592. SP305-5.*
- am point; Temperature standards; Thermodynamic Kelvin Temperature Scale; Gas thermometry; International Practical Temperature Scale of 1968; Sorption; *J.77A No. 4, 383-389 (1973). SP305-5.*
- am point; Thermodynamic temperature scale; Gas thermometer; Sorption; *13588. SP305-5.*
- am vapor pressure; Thermodynamic effects; Vapor pressure; Cavitation; Cavity pressure; Steam; *14879. SP305-7.*
- azite; Alumina; Brittle fracture; Chip removal process; Forsterite; Glass-ceramics; Grinding of ceramics; Micro-flash technique; Observation of chips during grinding; *SP348, pp. 37-43. SP305-4.*
- ee; Alpha particles; Boron; Ion microprobe mass analyzer; Nuclear track technique; Standard reference material; *15789. SP305-8.*
- ee; Aluminum; Anticoincidence shielding; Bovine liver assay; Copper; Low-level radioactivity; Radioactivity intercomparisons; *14300. SP305-6.*
- ee; Analytic methods; Concrete; Creep; Elevated temperature; Finite differences; Finite elements; Fire endurance; Fire tests; Isotherms; Prestressed concrete; Reinforced concrete; *SP411, pp. 154-164. SP305-6.*
- ee; Electron conversion; Mössbauer; Retained austenite; Standard sample; *12902. SP305-4.*
- ee; Electron conversion; Mössbauer; Retained austenite; Standard sample; *14486. SP305-6.*
- ee; Energy; Forecast; Industry; Iron; *SP403, pp. 121-152 (June 1976). SP305-8.*
- ee; Steel piles; Underground; Corrosion; Permafrost; Pilings; Soil corrosion; *11653. SP305-2.*
- ee; Stress corrosion; Tribo-ellipsometry; Repassivation kinetics; *14283. SP305-6.*
- ee; Stress-corrosion cracking; Corrosion; Embrittlement; Hydrogen; *9903. SP305-1.*
- ee; Structural mechanics; Uncertainty; Creep; Fire endurance; Fire tests; Reinforced concrete; Sensitivity analysis; *BSS76. SP305-8.*
- ee; Surfaces; Cobalt; Grinding; Mössbauer effect; Scattering; *14451. SP305-6.*
- ee; Terminal units; Aluminum; Ductwork; Fabric; Fiberglass; Fire tests; High rise buildings; HVAC systems; *13792. SP305-5.*
- ee; Terminal units; Aluminum; Ducts; Fire tests; Flexible connectors; Furnace pressures; Glass fiber; Heat ventilating and air conditioning systems; High-rise buildings; Optical density; *NBSIR 75-673. SP305-7.*
- ee; Thermal; Thermodynamics; Automobile; Break-even analysis; Conservation; Cooling; Economics; Energy; Environment; Fuel; Heating; Imports; Industry; Management; Manufacturing; Paper; Petroleum; Resources; Standards; *SP403. SP305-8.*
- ee; Steel; Titanium; Transducer calibration; Ultrasonic reference blocks; Acoustic emission; Aluminum; Fatigue cracks; Flat bottomed holes; Standards; *16252. SP305-8.*
- ee; Steel; Titanium; Ultrahigh vacuum; Adhesion; Basalt; Fiberglass; Friction; *SP336, pp. 225-244. SP305-3.*
- ee; Steel; Titanium; Underground; Corrosion; Exposure sites; Pipe; Soil corrosion; *11106. SP305-2.*
- ee; Steel; Trace elements; Isotope dilution; NBS Standard Reference Material; Preconcentration; Spark source mass spectrometry; *15889. SP305-8.*
- ee; Steel; Weather resistance; Accelerated tests; Acid resistance; Aluminum; Color; Gloss; Porcelain enamel; *13715. SP305-5.*
- ee; Steel; Welding; Alloying; Inclusions; Low temperature; Rolling; Ships; *16145. SP305-8.*
- ee; Steel analysis; Target current scanning; Trace analysis; X-ray absorptiometry; X-ray fluorescence analysis; X-ray scans; Analytical curve functions; Color composite; Computer programs; Electron probe; Gold analysis; Isotope dilution method; Laser probe; *TN502. SP305-2.*
- ee; Steel bi-fold doors; Bi-fold doors, steel; Closet doors, steel bi-fold; Doors, steel bi-fold; *PS38-70. SP305-3.*
- ee; Steel conduit system; Design specification; Guide and installation procedures; *BSS66, pp. 120-121. SP305-7.*
- ee; Steel construction; Building codes; E-119 test; Fire protection; Fire research; *14582. SP305-6.*
- ee; Steel door frames, steel doors, interior; Interior steel doors; Standard interior steel doors; *PS4-66. SP305.*
- ee; Steel fibers; Cement; Concrete; Fiber-reinforced cements; Fiber-reinforced concretes; Glass fibers; Mechanical properties; Organic fibers; Review; *15028. SP305-7.*
- ee; Steel framing; Fire endurance; Fire tests; Housing systems; Modular construction; Operation BREAKTHROUGH; *13412. SP305-5.*
- ee; Steel framing; Steel joist floor; Fire test; Floor assembly; Floor-ceiling assembly; Housing systems; Modular construction; Operation BREAKTHROUGH; *13397. SP305-5.*
- ee; Steel joist floor; Fire test; Floor assembly; Floor-ceiling assembly; Housing systems; Modular construction; Operation BREAKTHROUGH; Steel framing; *13397. SP305-5.*
- ee; Steel piles; Underground; Corrosion; Permafrost; Pilings; Soil corrosion; Steel; *11653. SP305-2.*
- ee; Steel piles; Underground; Corrosion; H-piles; Sheet piles; Soil corrosion; Soils; *11654. SP305-2.*
- ee; Steel piling; Cathodic protection; Coating index; Corrosion rates; Marine environment; Polarization techniques; Protective coatings; *13804. SP305-6.*
- ee; Steel piling; Undisturbed soil; Weight loss; Corrosion; Corrosion rate; Disturbed soil; Instantaneous rate; Pit depth; Pitting factor; Polarization; *J.75C No. 2, 107-121 (1971). SP305-3.*
- ee; Steel pipe and fittings, plastic lined; Pipe and fittings, steel, plastic lined; Plastic lined steel pipe; Polytetrafluoroethylene plastic lined pipe; PTFE lined pipe; *PS33-70. SP305-3.*
- ee; Steel pipe and fittings, plastic lined; FEP lined pipe; Fluorinated ethylene-propylene plastic lined pipe; Pipe and fittings, steel, plastic lined; Plastic lined steel pipe; *PS34-70. SP305-3.*
- ee; Steel pipe and fittings, plastic lined; Pipe and fittings, steel, plastic lined; Plastic lined steel pipe; Poly(vinylidene fluoride) plastic lined pipe; PVF<sub>2</sub> lined pipe; *PS35-70. SP305-3.*
- ee; Steel plate floors; Burnout tests; Fire endurance; Fire severity; Floor tests; *BSS11. SP305.*
- ee; Steel probe; Topography; Bevel; Interferometer; Jig; Microcontacts; Silicon; Spreading resistance; *SP400-10, pp. 99-108. SP305-6.*
- ee; Steel reinforcing bars; Bridge decks; Corrosion; Creep testing; Epoxy coatings; Polyvinylchloride coatings; *13798. SP305-5.*
- ee; Steel reinforcing bars; Bridge decks; Chloride ions; Concrete; Corrosion; Deicing salts; Epoxy coatings; Organic coatings; *14682. SP305-6.*

- Steel reinforcing bars; Bridge decks; Chlorides; Concrete; Corrosion; Epoxy coatings; Organic coatings; *15112. SP305-7.*
- Steel reinforcing bars; Bridge decks; Chloride ions; Concrete; Corrosion; Deicing salts; Epoxy coatings; Organic coatings; Polyvinyl chloride coatings; *B5565. SP305-7.*
- Steel reinforcing bars; Bridge decks; Chloride ions; Corrosion; Deicing salts; Epoxy coatings; Organic coatings; *16189. SP305-8.*
- Steel reinforcing bars; Chlorides; Concrete; Corrosion; Epoxy coatings; Organic coating; *13487. SP305-5.*
- Steel reinforcing bars; Chlorides; Concrete; Corrosion; Epoxy coatings; Organic coating; *TN768. SP305-5.*
- Steel, titanium; Alloys; Aluminum; Combustion; Ignition; Oxygen; Safety; Stainless steel; *NBSIR 73-345. SP305-6.*
- Steel tube column; Fire endurance; Fire test; Housing system; Multifamily housing; Operation BREAKTHROUGH; Single family attached housing; *13406. SP305-5.*
- Steel ultrasonic standards; Titanium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference blocks; Fabrication of reference blocks; Immersion testing; Longitudinal waves; Metallurgical variables; Non-destructive testing; Pulse-echo; *NBSIR 75-685. SP305-7.*
- Steel ultrasonic standards; Titanium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference standards; Calibration; Fabrication variables; Immersion testing; Interim reference standard; Longitudinal waves; Metallurgical variables; *NBSIR 76-984. SP305-8.*
- Steels; Activation analysis; Biological materials; Hydrogen bis(2-ethylhexyl) phosphate; Molybdenum; Radiochemical separations; *11365. SP305-2.*
- Steels; Activation analysis; Group separations; Radiochemical separations; *11157. SP305-2.*
- Steels; Alloys; Corrosion-resisting alloys; Copper-nickel alloys; Electroplating; Electrical resistance alloys; Heat resisting alloys; Magnetic alloys; Maraging steels; Nickel; Stainless steels; *Monogr. 106. SP305-1.*
- Steels; Neutron generator activation analysis; Organometallics; Oxygen; Standard reference materials; *11649. SP305-2.*
- Steels; Stress corrosion; Atmospheric corrosion tests; Chemical attack; Cold working; Corrosion; Cracking; Stainless steels; *9479. SP305.*
- Steels; Stress corrosion; Stress corrosion failures; Testing techniques; Aluminum alloys; Copper alloys; Magnesium alloys; Nickel alloys; *9902. SP305-1.*
- Steels; Trace elements; Alloys; Analyses; Cast irons; Differential cathode ray polarography; High-purity materials; Metals; *13284. SP305-5.*
- Steels; Trace elements; Alloys; Analyses; Cast irons; Differential cathode ray polarography; High purity materials; Metals; *13490. SP305-5.*
- Steels; Track etch method; Uranium; Boron; Glasses; Image analyzing system; Liver; Microscopy; Neutron activation analysis; Nitrogen; Nuclear track technique; Orchard leaves; *12688. SP305-4.*
- Steels and metallo-organics; Thermal analysis DTA standards; Trace elements-glass standards; Bilirubin solvent extraction with  $\beta$ -isopropyltolopone; Clinical; Filter; Fluorimetric standards; Inert gas fusion; Lead-base alloys; Multi-element flame spectrometer; Spectrophotometric standards; *TN544. SP305-2.*
- Steepest descents; Watson's lemma; Airy integral; Asymptotics; Error bounds; Gamma function; Saddle-points; *11700. SP305-2.*
- Stefan; Temperature; Wien; Boltzmann; Draper; Jeans; Kirchhoff; Optical; Planck; Pyrometry; Radiance; Rayleigh; *9788. SP305-1.*
- Stefan problem; Surface concentration; Surface self-diffusion; Whisker growth; Curtis approximation; Dittmar-Neumann approximation; Mean stay time; *9508. SP305.*
- Stefan problem; Surface diffusion; Surface diffusion constant; Whisker; Whisker evaporation; Mean adatom stay time; Minimum boundary; *11129. SP305-2.*
- Stefan-Boltzmann law; Thermodynamic temperature scale; Blackbody; Calorimeter; Ice point; Steam point; *135. SP305-5.*
- Steiner's problem; Street-network problem; Transport theory; Optimal interchange location; Optimal networks; Optimal road layout; Planar graphs; Planar networks; Road location; *11633. SP305-2.*
- Stellar; Binary; Gravity modes; Nonadiabatic; Oscillations; Resonances; *15282. SP305-7.*
- Stellar; Ultraviolet; Absorption; B-stars; C iv; O-stars; Spectra; *16271. SP305-8.*
- Stellar atmosphere; Thermodynamic equilibrium; Collisional processes; LTE; Radiation field; State parameters; *109. SP305-2.*
- Stellar atmosphere; Thermodynamic equilibrium; Collisional processes; LTE; Radiation field; State parameters; *109. SP305-2.*
- Stellar atmospheres; Astrophysics; Energy loss; O-stars; Radiative transfer; *14144. SP305-6.*
- Stellar atmospheres; Astrophysics; Early-type stars; Radiative transfer; Spectral line formation; *14751. SP305-7.*
- Stellar atmospheres; Astrophysics; Energy loss; Radiative transfer; Spectral line formation; *15489. SP305-7.*
- Stellar atmospheres; Early-type stars; Electron scattering; Spectral-line formation; *16613. SP305-8.*
- Stellar atmospheres; Gas dynamics; Radiative transfer; Spectral line profiles; *14418. SP305-6.*
- Stellar atmospheres; Moving atmospheres; Radiative transfer; Spectral line formation; Spherical geometry; *SP332, pp. 118. SP305-2.*
- Stellar atmospheres; Radiative energy loss; Radiative transfer; Spectral line profiles; Spherically symmetric gas clouds; *14419. SP305-6.*
- Stellar atmospheres; Radiative transfer; Relativistic effects; Spectral line formation; *16272. SP305-8.*
- Stellar atmospheres; Stellar coronae; Ultraviolet stellar spectrum; *14787. SP305-7.*
- Stellar atmospheres; Stellar limb darkening; Emission line spectra; Line profiles; *15600. SP305-7.*
- Stellar atmospheres; Stellar spectra; Dielectronic recombination; Doubly ionized nitrogen; Emission lines; O-stars; *134. SP305-5.*
- Stellar atmospheres; Stellar spectra; Dielectronic recombination; Ionized nitrogen; Of stars; *12917. SP305-4.*
- Stellar atmospheres; Transfer equation; Planetary nebulae; *11815. SP305-3.*
- Stellar atmospheres; *13811. SP305-6.*
- Stellar chromospheres; Ca ii; Spectral line; *14841. SP305-7.*
- Stellar chromospheres; Spectral line formation; *13358. SP305-5.*
- Stellar chromospheres; Stellar photospheres; Late-type stars; Line profiles; *14695. SP305-6.*
- Stellar chromospheres; Stellar ultraviolet observations; Late-type stars; OAO spectroscopic observations; *14031. SP305-6.*
- Stellar coronae; Stellar ultraviolet; Chromospheres; *155. SP305-7.*
- Stellar coronae; Ultraviolet stellar spectrum; Stellar atmospheres; *14787. SP305-7.*
- Stellar instability; Wolf-Rayet stars; Atomic cross sections; Atmospheric aerodynamics; Diagnostic spectroscopy; Nonequilibrium gases; *SP307. SP305-1.*
- Stellar limb darkening; Emission line stars; Line profiles; Stellar atmospheres; *15600. SP305-7.*
- Stellar photospheres; Late-type stars; Line profiles; Stellar chromospheres; *14695. SP305-6.*

ar spectra; Atomic ions; Atomic spectra; Classified lines; Energy levels; Europium; Ionization energy; 13724. SP305-5.

ar spectra; Dielectronic recombination; Doubly ionized rogen; Emission lines; O-stars; Stellar atmospheres; 13430. SP305-5.

ar spectra; Dielectronic recombination; Ionized nitrogen; stars; Stellar atmospheres; 12917. SP305-4.

ar structure; A-type stars; Convection theory; Convection nes; Metallic-line stars; 16606. SP305-8.

ar structures; Convection theory; Convection zones; 16605. SP305-8.

ar ultraviolet; Chromospheres; Stellar coronae; 15598. SP305-7.

ar ultraviolet observations; Late-type stars; OAO spectro-opic observations; Stellar chromospheres; 14031. SP305-6.

Time; Transition; Coaxial; Cylindrical; Error; Line; Loss; esponse; Skin effect; 15696. SP305-7.

height; Interferometer; Polarization; 16382. SP305-8.

recovery diode; Impulse generator; Picosecond; Spectrum; ectrum amplitude; 15658. SP305-7.

response; Superconducting transmission line; Time domain onvolution; Cable; 12397. SP305-4.

response; Superconductive coaxial line; Frequency sponse; Gorter-Casimir two fluid model; 11054. SP305-2.

response; System function; Transmission; Coefficient al-gorithms; Expansions; Inverse Laplace transform; Reflec-ometry; Skin effect; J.74B No. 3, 155-173 (1970). SP305-

response; Time domain; Voltage divider; Asymptotic ex-ansion; Characteristic impedance; Coaxial line; Complimen-ary error function; Conductor; Cylindrical; Dielectric; Error; enerator; Lossy; Microminiature; Model; Planar; Propaga- tion function; Pulse; Receiving end; 14347. SP305-6.

response; Transmission line; Digital computer program; istributed networks; Inverse Laplace Transformation; umped networks; Rosenbrock cursor; J.73B No. 2, 163-176 (1969). SP305-1.

p waveform; Tunnel diode; Directional coupler; Fast isetime; Flat pulse baseline/topline; Pulse generator; U.S. atent 3,967,140. SP305-8.

pping; Digital; Drive; Electronic; Generator; Motor; 16399. SP305-8.

pping motor; Backup detectors; Counting rate corrections; igital scattering; Relative efficiencies; Semiconductor rray; 10671. SP305-1.

pwise regression; Computer programs; Curve fitting; Gram- Schmidt orthogonalization; Householder transformations; ervative refinement; Least squares; Linear equations; Orthogonalization; Orthogonal polynomials; Regression; ounding error; 12184. SP305-3.

pwise regression; Computer programs; Gram-Schmidt uthogonalization; Householder transformations; Least squares; Linear equations; Orthogonalization; Orthogonal polynomials; Regression; Rounding error; J.73B No. 1, 59-90 (1969). SP305-1.

pwise regression; Computer programs; Curve fitting; Gram- Schmidt orthogonalization; Householder transformations; ervative refinement; Least squares; Linear equations; Orthogonalization; Orthogonal polynomials; Regression; ounding error; 11522. SP305-2.

ereo scanning electron microscopy; Creep cavitation; Frac- tography; High purity copper; Impurity segregation structure; 13160. SP305-5.

ereochemistry; Synthesis; Tungsten(VI) halides; Alkoxy; Chlorides; Exchange reactions; Fluorides; Methoxy; Nuclear agnetic resonance; Organosilanes; Organoxy; 12646. SP305-4.

ereochemistry; Synthesis; Tungsten; Fluorine; Methoxy; N.m.r.; Siloxane; 11630. SP305-2.

Stereochemistry; Tetrachlorodiborane(4); 1,2- bis(dichloroboryl)ethylene; Acetylene; Organoboron com- pounds; Proton magnetic resonance; Protonolysis; 10293. SP305-1.

Stereoisomers; Vacuum-ultraviolet photolysis; CHO<sub>2</sub> free rad- ical; Force constants; Infrared spectrum; Matrix isolation; Reaction of OH with CO; 12112. SP305-3.

Stereological analysis; Automatic scanning (of micrographs); Computer processing (of micrographs); Logical modification of pictures; Precision scanning (of micrographs); Quantitative microscopy; 10255. SP305-1.

Stereology; Stereometry; Stereopsis; Stochastic models; Struc- tures; Three-dimensional reconstruction; SP431. SP305-8.

Stereology; Toy safety; X-ray units; Computer power; Com- puter standard; Corrosion; Environment; Health care; Hous- ing production; I-R 100 awards; NIKE missile; Papers avail- able; DIM/NBS 60, No. 11, 1-24 (1976). SP305-8.

Stereoetric analysis; X-ray absorption; X-ray emission; Atomic number effect; Biological specimens; Electron probe microanalysis; Electron scattering; Fluorescence by the con- tinuum; Quantitative analysis; SP298. SP305-1.

Stereometry; Stereopsis; Stochastic models; Structures; Three-dimensional reconstruction; Stereology; SP431. SP305- 8.

Stereomicroscopy; Scanning electron microscope; SEM applica- tions; SEM dynamic experiments; SEM specimen prepara- tion; SEM stroboscopy; 15245. SP305-7.

Stereopsis; Stochastic models; Structures; Three-dimensional reconstruction; Stereology; Stereometry; SP431. SP305-8.

Stereospecific reduction; Tagatose; Cyclic acetals; Hex-3-en- uropyranose; Hexodiolose; Hexulose; Psicose; 12436. SP305-4.

Steric effects; Alkyl radicals; Cross disproportionation; 14485. SP305-6.

Steric-exclusion chromatography; Chromatography; Diffusion; Gel chromatography; Gel filtration; Gel-permeation chro- matography; Glass chromatography; GPC; Pore-controlled glass; Restricted diffusion; 10357. SP305-1.

Sterility control; Dosimetry; Electron beams; Gamma rays; Physical measurements; Quality control; Radiation measure- ment; Radiation processing; Radiation sterilization; Radiochromic dyes; Red Perspex; 16648. SP305-8.

Stern-Geary equation; Synthetic sea water; Weight loss; Bridge circuit; Change of pH; Instantaneous corrosion rates; Pearson equation; Pit depth; Recorder; 11658. SP305-2.

Steroids; Zak procedure; Carbonium ions; Cholesterol; Enlyc ions; Isobestic points; Kinetics; Reaction mechanisms; 14699. SP305-6.

Stibinic acid; Trimethylarsine; Trimethylstibine; Antimony; An- timony oxide; Arsenic; Arsenic acid; Biomethylation; Cacydic acid; Diffusion; Flame retardant; Oxidation rate; 16628. SP305-8.

Sticking coefficient; Surface coverage; Adsorption kinetics; Nitrogen; Rhenium; 9394. SP305.

Sticking coefficient; Thermionic emission; Work function; Ad- sorption; Carbon monoxide; Chemisorption; Desorption; Electron reflection; Nitrogen; Oxygen; Single crystal; 10392. SP305-1.

Sticking coefficient; Tungsten; Carbon monoxide; High tem- perature; Isotopic mixing; Molybdenum; Nitrogen; Rhenium; 13377. SP305-2.

Sticking coefficient; Tungsten; Carbon monoxide; Chemisorp- tion; Isotopic mixing, flash desorption; Molybdenum; Nitrogen; Rhenium; 11484. SP305-2.

Sticking coefficient; Vacuum techniques; GPC; Surface coefficient; Cryocondensation; Cryogenically cooled surfaces; Cryopump; Partial pressure measurements; Pressure calibration with vapor pressures; Pressure anisotropy; Pumping efficiency; Pumping speed; 10265. SP305-1.

Storms; Structural engineering; Wind pressure; Wind speed; Buildings (codes); Hurricanes; Probability distribution functions; Reliability; Risk; Statistical analysis; 16545. SP305-8.

Straight; Continuum; Crystal; Defect; Dislocation; Energy; Interaction; Isotropic; 9446. SP305.

Straight ducts; Collimators; Multiple neutron backscattering; Neutron experimental equipment; Neutron-neutron scattering; Re-entrant holes; 12812. SP305-4.

Straight path; Vibrational energy transfer; CO<sub>2</sub>; Exchange forces; Hydrogen halides; Line widths; 13434. SP305-5.

Strain; Burgers vector; Continuum mechanics; Defect; Disclination; Dislocation; Distortion; Green's tensor; Incompatibility; Plasticity; *J.77A No. 3, 359-368 (1973)*. SP305-5.

Strain; Cable; Coaxial; Mechanical; Response; *NBSIR 73-418*. SP305-6.

Strain; Strain gage; Extensometer; Historical; Measurement; State of the art; 10458. SP305-1.

Strain; Stress; Continuum; Crystal; Defect; Dislocation; Displacement; Interaction; Isotropic; 9445. SP305.

Strain; Stress; Superconducting magnets; Critical currents; Magnets; Magnet wire; Nb<sub>3</sub>Sn; Nb<sub>3</sub>Sn magnets; Nb<sub>3</sub>Sn multifilamentary wires; 16474. SP305-8.

Strain; Stress; Tensile; Adhesion; Bonding; Dental; Filling materials; Hardening; Shrinkage; 9433. SP305.

Strain; Stress; Transformer sheet; Divergent beam x-ray diffraction; Electron probe microanalysis; Iron-silicon alloy; Kossel; *Monogr. 130*. SP305-5.

Strain; Superconductivity; Electronic density of states; Fermi surface; In-Cd alloy; Pressure; *FP23, pp. 735-736*. SP305-4.

Strain; Vacuum; Vibration; Viscosity; Acoustics; Fluid mechanics; Force; Gravity; Humidity; Pressure; *SP300. Volume 8*. SP305-4.

Strain; Volterra; Burgers vector; Continuum mechanics; Defect; Dipole; Disclination; Dislocation; Distortion; Green's tensor; Incompatibility; Loop; Plasticity; *J.77A No. 1, 49-100 (1973)*. SP305-5.

Strain; Volterra; Burgers vector; Continuum mechanics; Defect; Dipole; Disclination; Dislocation; Distortion; Green's tensor; Incompatibility; Loop; Plasticity; *J.77A No. 5, 607-658 (1973)*. SP305-5.

Strain; Volterra; Continuous; Continuum; Defect; Disclination; Discrete; Dislocation; Distortion; Green's function; Incompatibility; Plasticity; 12997. SP305-4.

Strain aging; Yield stress; Annealing; Impurities; Iron; Radiation hardening; 11449. SP305-2.

Strain analysis; X ray; Channelling of electrons; Crystal orientation; Kossel; Lattice spacing determination; Microdiffraction; Scanning electron microscopy; 14913. SP305-7.

Strain effects; Iron-silicon alloys; Lorentz force; Magnetic domains; Photomicrography; Scanning electron microscope; 15037. SP305-7.

Strain energy; Continuum mechanics; Elasticity; Integration; Matrix calculus; Matrix identity; Matrix theory; Reducibility; Schur's lemma; *J.77B Nos. 3 and 4, 73-79 (1973)*. SP305-5.

Strain energy; Supercooled liquid; Thermal relaxation; Glassy state; Glass transition; Heat capacity; Polymer; Specific heat; 16309. SP305-8.

Strain energy; Volume-extension; Compressibility; Natural rubber; 12961. SP305-4.

Strain extensometer; Cryostat; Electrical resistance; Soft materials; 11825. SP305-3.

Strain gage; Adhesive; Application; Curing; Cylinder; Installation; 9613. SP305-1.

Strain gage; Extensometer; Historical; Measurement; State of the art; Strain; 10458. SP305-1.

Strain gage; Life cycling; Life testing; Pressure cycling; Pressure transducer; *TN434*. SP305.

Strain gage; Stress-strain measurement; Dental amalgam; Dental materials; Diffraction gratings; Modulus of elasticity; 105. SP305-2.

Strain gage; Temperature cycling; Temperature storage; 2 shift; Life testing; Pressure transducer; Sensitivity; *TN497*. SP305-1.

Strain gage; Transient temperature; Extensometer; High temperature; Laboratory standard; 12633. SP305-4.

Strain gage measurements; Drop-ball test; Impact; Life; Ophthalmic lens; Quasi-static theory; 16310. SP305-8.

Strain hardening; Strain rate; Stress strain diagrams; Tantalum; Tensile properties; Evaluation; High temperature; Molybdenum; Plastic flow; Poisson ratio; Refractory metals; 13819. SP305-6.

Strain hardening; Work hardening; Equivalent strain; Hardening; Plasticity; *J.76C Nos. 1 and 2, 53-54 (1972)*. SP305-4.

Strain measurement; Temperature changes in tensile specimens; 4340 steel; Capacitance gages; Invar; Loading; Microplasticity; 11738. SP305-2.

Strain measurement; Tensile testing; X-ray microdiffraction; Instrument design; Kossel x-ray method; Metallography; 11738. SP305-2.

Strain measurement instruments; Tensile properties; Capacitance extensometer; Cryostat; 11771. SP305-2.

Strain measurement; Structural components; Test procedures; Automobile side impact; Crush characteristics; Displacement measurements; Door structure; Drop tests; Dynamic crash tests; Impact collisions; Plastic deformation; Static crash tests; *NBSIR 74-605*. SP305-7.

Strain rate; Stress strain diagrams; Tantalum; Tensile properties; Evaluation; High temperature tests; Molybdenum; Plastic flow; Poisson ratio; Refractory metals; Strain hardening; 13819. SP305-6.

Strain waves; Viscoelasticity; High-speed photography; Impact testing; Natural rubber; 10433. SP305-1.

Strain-energy; Thermodynamics; Viscoelasticity; Constitutive equation; Continuum mechanics; Elasticity; Isotropy; Material symmetry; Mechanical properties; Rheology; Scalar potential; 14689. SP305-6.

Strain-energy function; Volume-extension; Compressibility; Elasticity; Finite deformation; Hyperelasticity; Rubber materials; 15015. SP305-7.

Strainmeter; Earth tides; Interferometer; Normal modes; 130. SP305-5.

Strainmeter; Geophysics; Interferometry; Saturated absorption stabilizer; 14581. SP305-6.

Strainmeter; Interferometer; Methane-absorption stabilizer; 12810. SP305-4.

Strains; Stiffness; Stresses; Accelerating (process); Aging; Bar resistance; Cross-linking; Crystal structure; Dimensional stability; Paper; 11626. SP305-2.

Strain-time relations; Vulcanizates; Compliance; Creep; Dicumyl peroxide vulcanizates; Indentation of rubber; Modulus; Natural; Natural rubber; Rubber; 11793. SP305-2.

Strategies; Workload; FORTRAN IV; Operating system; Operating head; Resource allocation; Simulator; 16062. SP305-8.

Strategy; Systems approach; Technology and feasibility; User needs; Bid evaluation; Building systems; Criteria and standards; Educational facilities; Life cost; Performance specifications; Prototypes; S.C.S.D., R.A.S.; *SP361, Vol. 1 pp. 317-318*. SP305-4.

Strategy; Theory of games; Inspection; Mathematical models; Regulation; *J. Res. 80B No. 2, 189-236 (1976)*. SP305-8.

Stratifiable spaces; U-linked sequences; Co-convergent; Core-convergent; Nagata spaces; Open neighborhood assignment; *J.79B Nos. 1 and 2, 63-64 (1975)*. SP305-7.

Stratifiable spaces; U-linked sequences; Co-convergent; Core-convergent; Nagata spaces; Open neighborhood assignment; *J.79B Nos. 3 and 4, 103-105 (1975)*. SP305-7.



ification; Supercritical storage; Two-phase flow; Zero gravity; Boiling heat transfer; Bubble dynamics; Cavitation; Condensing heat transfer; Correlations; Cryogenic fluid flow; Fluid dynamics; Fluid transfer; Heat transfer; 13242. SP305-5.

ified flow; Theory; Corridors; Fire induced flow; Recirculating flow; Scale-model; Smoke movement; 15630. SP305-7.

ified flow, internal waves, buoyant flows; Fluid dynamics; Fundamental solution, initial value problem; Partial differential equations; *J. Res.* 80B No. 1, 79-88 (1976). SP305-8.

ified fluids; Waves in fluids; Buoyant flows; Geophysical air flows; Inertial waves; Internal waves; Rotating fluids; *J. Res.* 80B No. 3, 353-402 (1976). SP305-8.

osphere; Air pollution; Nitrogen dioxide; Ozone; Rate constant; 14539. SP305-6.

osphere; Ammonia; Kinetics; OH radical; Ozone; 13956. SP305-6.

osphere; Atmosphere; Carbon monoxide; Chemical kinetics; Data evaluation; Hydroxyl; Nitric acid; Nitric oxide; Nitrogen dioxide; Oxygen atom; Ozone; Photochemistry; 3441. SP305-5.

osphere; Chemical kinetics; Free radicals; Measurement; 6130. SP305-8.

osphere; Chlorine atoms; Kinetics; Ozone; Resonance fluorescence; 15949. SP305-8.

osphere; Kinetics; Nitrogen dioxide; Oxygen atoms; Rate constants; 13247. SP305-5.

osphere; Trichlorofluoromethane; Absorption cross section; Chlorine atom; Dichlorodifluoromethane; Freons; Photochemistry; Quantum yields; 15571. SP305-7.

osphere; Water; Atmospheric chemistry; Chemical kinetics; Data evaluation; Nitrogen oxides; Ozone; Photochemistry; 13491. SP305-5.

ospheric air pollution; Water quality; Water pollution; Air pollution; Air quality; Auto emissions; Clean air and water; Environmental quality; Metal contaminants; Occupation-related air pollutants; Oil spills; Radioactive pollutants; *DIM/NBS* 57, No. 10, 225-252 (1973). SP305-5.

ospheric chemistry; Absorption cross sections; Atmospheric chemistry; Chemical kinetics; Chlorine; Chlorine dioxide; Chlorine monoxide; Data evaluation; Gas phase; Optical; Rate constants; *NBSIR* 74-516. SP305-6.

ospheric chemistry; Atmospheric pollution; Chlorine nitrate; Dipole moment; Microwave spectrum; Ozone depletion; Rotational constants; 16584. SP305-8.

ospheric chemistry; Chemical kinetics; Data center operation; Information analysis center; Photochemistry; 16364. SP305-8.

ospheric ozone; Ultraviolet solar radiation; Solar radiation; 10087. SP305-1.

ospheric warnings; Winter anomaly; Absorption, ionospheric; Ionospheric absorption; 9267. SP305.

ray energy sensor; Electroexplosive device safety; Electromagnetic compatibility; Electromagnetic interference; *NBSIR* 74-379. SP305-7.

ray light; Wavelength scale; Errors in spectrophotometry; Photometric scale; Slit width; Spectral transmission; Spectrophotometer standards; *J. Res.* 80A No. 4, 625-630 (1976). SP305-8.

ray light; Xenon-mercury, arc lamp; Arsenic; Atomic absorption; Atomic spectrometry; Background, correction; Non-flame, atomization; 15894. SP305-8.

ray magnetic field; Bridge; Capacitance; Coaxial cable; Ground loop; Inductance; Magnetic core; *J.72C* No. 2, 161-165 (1968). SP305-1.

ray magnetic field; Transformer; Auxiliary generator; Bridge; Coaxial choke; Mutual inductor; *J.70C* 4-233, 221-226 (1966). SP305.

Stray radiant energy; Transmittance; Beam non-uniformity; Circular entrance and exit apertures; High accuracy spectrophotometer; Linearity; Parabolic mirrors; *TNT29*. SP305-4.

Stray radiation; Testing of spectrophotometers; Transmittance (absorbance) accuracy; Wavelength accuracy; Accuracy in spectrophotometry; Glass filters; Spectral bandpass; Spectrophotometry; Standard reference materials; *SP260-51*. SP305-7.

Straylight; Wavelength accuracy; Bandwidth; Calibration; Errors in spectrophotometry; Interferences; Multiple reflections; Photometric linearity; Polarization; Sample characteristics; *J. Res.* 80A No. 4, 609-624 (1976). SP305-8.

Streak camera experiments; Surface plasmas; Entrance and exit surface damage; Sapphire; Spatial and temporal plasma resolution; *SP372*, pp. 46-54. SP305-4.

Streaming birefringence; Molecular weight distribution; Normal stress; Polystyrene solutions; Standard sample; *14128*. SP305-6.

Street drugs; Centroid color charts; Color spot tests; Drugs of abuse; Experimental detection limits; Field tests; Narcotic identification; Narcotics; Spot tests; *14697*. SP305-6.

Street-network problem; Transportation theory; Optimal interchange location; Optimal networks; Optimal road layout; Planar graphs; Planar networks; Road location; Steiner's problem; *11633*. SP305-2.

Strength; Alumina; Fracture; Mechanical properties; Plastic deformation; Sapphire; *12282*. SP305-3.

Strength; Brittle solids; Ceramic surfaces; Degradation; Fracture; Indentation; *NBSIR* 75-661. SP305-7.

Strength; Brittle solids; Ceramic surfaces; Cracks; Degradation; Fracture; Hertzian; Indentation; *NBSIR* 75-664. SP305-7.

Strength; Brittle solids; Ceramic surfaces; Crack; Degradation; Fracture; Hertzian; Indentation; *15856*. SP305-8.

Strength; Crack growth; Fracture; Fracture mechanics; Glass; Static fatigue; *15821*. SP305-8.

Strength; Crack growth; Fracture; Glass; Static fatigue; *NBSIR* 74-485. SP305-6.

Strength; Crack growth; Fracture; Glass; Static fatigue; *15432*. SP305-7.

Strength; Crack propagation; Error analysis; Failure prediction; Failure prevention; Fracture; Statistics; *16617*. SP305-8.

Strength; Crack propagation; Error analysis; Failure prediction; Failure prevention; Fracture; Statistics; *NBSIR* 75-952. SP305-8.

Strength; Crack propagation; Fracture; Glass; Mechanical properties; *13174*. SP305-5.

Strength; Crack propagation; Fracture; Fracture mechanics; Glass; *14579*. SP305-6.

Strength; Deep submergence; Fracture; Fracture energy; Glass; High pressure; *12188*. SP305-3.

Strength; Fracture; Fracture pattern; Glass; Mirror-size; *9837*. SP305-1.

Strength; Glass; Low temperature; *9836*. SP305-1.

Strength; Squeeze; Test methods; Toys; Toy safety; Twist; Children; Children's strength; Pull; Push; Safety; *13595*. SP305-5.

Strength; Stress corrosion; Crack propagation; Fracture; Fracture mechanics; Glass; *13344*. SP305-5.

Strength; Stress corrosion; Crack propagation; Fracture; Fracture mechanics; Glass; *13349*. SP305-5.

Strength; Structural analysis; Structural design; Ultimate strength; Bending moments; Building codes; Column (supports); Frames; Long columns; Reinforced concrete; Slenderness ratio; *16412*. SP305-8.

Strength; Structural analysis; Walls; Axial load (force); Bending moment; Building codes; End-fixity; Reinforced concrete; Slenderness; *11933*. SP305-3.

Strength; Structural ceramics; Crack growth; Fracture; Fracture mechanics; Porcelain; *15322*. SP305-7.

Strength; Structural tests; Sustained load; Transportation; Vibration; Wood-frame; Deflection; Housing; Laboratory; Module; Racking; Stiffness; 13389. **SP305-5.**

Strength; Sulfate expansion; Trace elements; Alkalies; Concrete; Durability; Heat of hydration; Portland cements; Shrinkage; Statistical evaluation; 11863. **SP305-3.**

Strength; Surface; Crack healing; Fracture; Glass; 11993. **SP305-3.**

Strength; Surface features; Thermal expansion anisotropy; Fracture surface energy; Machining damage; Plastic deformation; Polycrystalline alumina; 14037. **SP305-6.**

Strength; Surface stress; Grain size; Griffith equation; Petch equation; Thermal expansion anisotropy; 13211. **SP305-5.**

Strength; Test; Testing; Tipping; Home playground equipment; Stability; *NBSIR 74-621*. **SP305-7.**

Strength; Test methods; Toys; Toy safety; Children; Children's strength; Pull-apart; Safety; *NBSIR 73-424*. **SP305-6.**

Strength; Thermal shock; Ceramics; Fracture; Fracture surface energy; 11524. **SP305-2.**

Strength; Thermal shock; Time to failure; Ceramics; Fracture; Fracture mechanics; Glass; Impact damage; 14886. **SP305-7.**

Strength; Time-of-flight; Function; Mass number; Neutrons; Optical potential; *R*-matrix; 14014. **SP305-6.**

Strength; Transmission electron microscopy; Alumina; Crack growth; Critical stress intensity factor; Fracture; Plastic deformation; Sapphire; 13853. **SP305-6.**

Strength; Twinning; Chemical polishing; Rutile; Sapphire; Spinel; *SP348*, pp. 267-269. **SP305-4.**

Strength; Fracture; Glass; High pressure; Static fatigue; 12563. **SP305-4.**

Strength; Stress; Coaxial; Deflection; Flexure; Glass; Numerical; Plate; Ring; Solution; 12460. **SP305-4.**

Strength; Structural concrete; Aggregate grading; Cement content; Concrete construction; Creep; Durability; Economy; Gap-grading; Shrinkage; *SP361*, Vol. 1, pp. 711-718. **SP305-4.**

Strength; Structural engineering; Structures; User requirements; Vibration; Deflection; Load capacity; Performance criteria; Performance evaluation; Stiffness; *SP361*, Vol. 1, pp. 261-266. **SP305-4.**

Strength; Structural performance; Tests; Analysis; Concrete beams; Concrete plates; Ducts; Openings; Serviceability; *SP361*, Vol. 1, pp. 545-556. **SP305-4.**

Strength; Surface characterization; Twinning; Flame polishing; Glass; Rutile; Sapphire; Spinel; *SP348*, pp. 237-244. **SP305-4.**

Strength; Surface finish; Twins; Carbides; Glass, ion beam sputtering; Nitrides; Oxides; RF sputtering; *SP348*, pp. 171-187. **SP305-4.**

Strength; Surface flaws; Surface treatments; Thermal shock; Abrasive machining; Alumina ceramic; Chemical polishing; Crack healing; Delayed fracture; Glazing; Humidity; Refrining; *SP348*, pp. 353-363. **SP305-4.**

Strength; Surface perfection;  $\alpha$ - $\text{Al}_2\text{O}_3$ ; Annealing; Flame-polishing; Reinforcements; Ruby; Sapphire; *SP348*, pp. 213-232. **SP305-4.**

Strength; Testing; Variability; Accelerated aging; Building systems; Extreme loads; Performance criteria; Performance evaluation; Service loads; Stiffness; *SP361*, Vol. 1, pp. 267-274. **SP305-4.**

Strength; United States; Abnormal loading; Building; Codes; Design criteria; Multistory; Progressive collapse; Risk; Stability; Standards; 13475. **SP305-5.**

Strength; Young's modulus; Chemically strengthened glass; Elevated temperature; Glass; 9835. **SP305-1.**

Strength criteria; Strength ratio; Strength-reducing characteristics; Structural; Defective material; Design criteria; Design stresses; Glued-laminated timber; Knots; Lamination; Lumber grades; Prestressed wood; Slope of grain; *SP361*, Vol. 1, pp. 625-632. **SP305-4.**

Strength degradation; Sustained loading; Fracture probability; Slow crack growth; 15125. **SP305-7.**

Strength enhancements; Characterization; Continuous flame polishing; Sapphire filament; *SP348*, pp. 247-256. **SP305-4.**

Strength (floors); Vibration (floors); Deflection (floors); Dwelling; Floor (wood); Joists; Loads; Performance criteria; *SP361*, Vol. 1, pp. 593-600. **SP305-4.**

Strength functions; Capture; Normalization; *SP425*, pp. 586. **SP305-7.**

Strength gain of portland cements; Trace elements; Chemical composition; Fineness; Heat of hydration; *BSSS*, Sec. **SP305-1.**

Strength of glass; Stress corrosion cracking of glass; Structure of glass; Cracked propagation of glass; Glass; Glass fit; Hardness of glass; Static fatigue of glass; 13711. **SP305-5.**

Strength properties; Thermally induced forces; Thermal-shock resistance factor; Development; Roofing membrane; 9835. **SP305-1.**

Strength properties; Thermally induced forces; Thermal-shock resistance factor; Development; Roofing membrane; 10338. **SP305-1.**

Strength properties; Thermally-induced forces; Thermal-shock resistance factor; Development; Roofing membrane; *BSSS*, Sec. **SP305.**

Strength ratio; Strength-reducing characteristics; Structural; Defective material; Design criteria; Design stresses; Glued-laminated timber; Knots; Lamination; Lumber grades; Prestressed wood; Slope of grain; Strength criteria; *SP361*, Vol. 1, pp. 625-632. **SP305-4.**

Strengthening; Elastic properties; High-purity aluminium; Surface defects; Mechanical properties; Recovery; 13038. **SP305-4.**

Strengthening mechanisms; Superalloys; Titanium alloys; Titanium steels; Ultrahigh strength; Alloy steels; Ausformed steels; Cold-drawn steels; Dispersion hardened alloys; Fiber-reinforced materials; Maraging steels; Refractory alloys; 12789. **SP305-4.**

Strength-reducing characteristics; Structural; Defective material; Design criteria; Design stresses; Glued-laminated timber; Knots; Lamination; Lumber grades; Prestressed wood; Slope of grain; Strength criteria; Strength ratio; *SP361*, Vol. 1, pp. 625-632. **SP305-4.**

Strengths; Carbides ceramics; Fracture; Grain size; Grinding; Hardness; Mechanical testing; Nitrides; Oxides; *SP348*, pp. 365-375. **SP305-4.**

Strengths; Sum rules; Vacuum ultraviolet; Electron energy losses; Germanium;  $M_{IV,V}$  edge; Optical constants; Oscillations; 11367. **SP305-2.**

Strength-thickness; Bituminous adhesive; Bituminous building membranes; Engineering properties; Laboratory-field comparison; *TN473*. **SP305-1.**

Strength-thickness; Bituminous adhesive; Bituminous building membranes; Engineering properties; Laboratory-field comparison; 11256. **SP305-2.**

Stress; Affine connection; Continuum mechanics; Non-Riemannian geometry; *SP317*, pp. 943-962. **SP305-3.**

Stress; Coaxial; Deflection; Flexure; Glass; Numerical; Plate; Ring; Solution; Strength; 12460. **SP305-4.**

Stress; Continuum; Crystal; Defect; Dislocation; Displacement; Interaction; Isotropic; Strain; 9445. **SP305.**

Stress; Relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; Nonlinear behavior; Polyisobutylene; Recovery; *J.70A6-423*, 525-532 (1966). **SP305.**

Stress; Stress intensity; Cracks; Experimental mechanics; Fracture; Fracture toughness; Interferometry; Model experiments; 15742. **SP305-8.**

Stress; Stress-corrosion; Underground; Corrosion; Galvanic; Hydrogen embrittlement; Soil; Stainless steel; 16354. **SP305-8.**

- Stress: Superconducting magnets; Critical currents; Magnets; Magnet wire; Nb<sub>3</sub>Sn; Nb<sub>3</sub>Sn magnets; Nb<sub>3</sub>Sn multifilamentary wires; Strain; 16474. **SP305-8.**
- Stress: Tensile; Adhesion; Bonding; Dental; Filling materials; Gardening; Shrinkage; Strain; 9433. **SP305.**
- Stress: Tensile strength; Wear; Corrosion; Crack-free chromium; Electroplating; Fast plating; Fatigue strength; Grinding; Hardness; SP452, pp. 56-63 (Sept. 1976). **SP305-8.**
- Stress: Transformer sheet; Divergent beam x-ray diffraction; Electron probe microanalysis; Iron-silicon alloy; Kossel; Strain; *Monogr. 130*. **SP305-5.**
- Stress: Zero bias resistance; Correction factor; Crystallographic orientations; Effective contact radius; Interfaces; Metal-semiconductor contacts; Multilayered structure; Piezoresistivity; Resistivity; Spreading resistance; SP400-10, pp. 17-6. **SP305-6.**
- Stress analysis; Brittle solids; Chipping; Fracture; Indentation; Residual stress; 16306. **SP305-8.**
- Stress analysis; Superconducting coil composite; Superconducting wire; Thermal properties; Fiberglass cloth; Mechanical properties; *NBSIR 76-837*. **SP305-8.**
- Stress analysis; Thermal analysis; Zinc selenide window; Computer analysis; Laser induced stresses; SP462, pp. 29-35 (Dec. 1976). **SP305-8.**
- Stress analysis; Thin wall; Torsion; Tube; Creep; Primary creep; Shear; Shell; J71C3-256, 209-225 (1967). **SP305.**
- Stress analysis; Wear rate; Abrasion; Brittle solids; Brittle surface; Chipping; Fracture; Hardness; Indentation; Residual stress; *NBSIR 75-659*. **SP305-7.**
- Stress analysis of dental structures; Brittle coatings for stress analysis; Dental materials; Denture, artificial, stress analysis; Photoelasticity, dental applications; Porcelain-gold restorations, stress analysis; SP354, pp. 169-175. **SP305-4.**
- Stress birefringence; Thermal distortion; Windows; Infrared lasers; Interferometry; SP435, pp. 126-141 (Apr. 1976). **SP305-8.**
- Stress components; Thermoelastic theory; Antimony; Heat conduction; Laser materials; Nd-doped glass; Platinum; J75A No. 4, 247-260 (1971). **SP305-3.**
- Stress components; Thermoelastic theory; Antimony; Heat conduction; Laser materials; Nd-doped glass; Platinum; 12133. **SP305-3.**
- Stress concentration; Stress-rupture; Titanium alloy; Creep; Elevated temperature; Engineering design; Notch geometry; J74C Nos. 1 and 2, 27-37 (1970). **SP305-2.**
- Stress concentration; Surface hardening; Crack initiation; Fatigue; Residual stress; Service failures; 10507. **SP305-1.**
- Stress concentrations; Dislocation pileups; Moutier cycle; SP317, pp. 147-150. **SP305-3.**
- Stress concentrations; Tensile deformation; Workhardening; Fracture; Initial cracking; Multiaxial stresses; Notch geometry; 310 stainless steel; 9735. **SP305-1.**
- Stress corrosion; Aluminum alloy; Corrosion; Directional effects; Grain morphology; Preferred orientation; 11839. **SP305-3.**
- Stress corrosion; Aluminum alloys; Crack initiation; Crack propagation; Rate-controlling step; 10797. **SP305-1.**
- Stress corrosion; Atmospheric corrosion tests; Chemical attack; Cold working; Corrosion; Cracking; Stainless steels; Steels; 9479. **SP305.**
- Stress corrosion; Boiling sodium chloride solution; Delayed failure; High strength steel; Hydrogen diffusion; Hydrogen embrittlement; Internal initiation; 9478. **SP305.**
- Stress corrosion; Ceramics; Crack growth; Delayed failure; Fracture; Glass; Sapphire; Static fatigue; 11193. **SP305-2.**
- Stress corrosion; Chemical breakdown of passivity; Chloride; Crevice corrosion; Ellipsometry; Iron; Molybdenum; Repassivation kinetics; *NBSIR 75-916*. **SP305-8.**
- Stress corrosion; Chloride; Ellipsometry; Low carbon steel; Nitrate; Nitrite; Repassivation; 14882. **SP305-7.**
- Stress corrosion; Crack propagation; Fracture; Fracture mechanics; Glass; Strength; 13344. **SP305-5.**
- Stress corrosion; Crack propagation; Fracture; Fracture mechanics; Glass; Strength; 13349. **SP305-5.**
- Stress corrosion; Crack propagation; Fracture; Glass; Static fatigue; 11992. **SP305-3.**
- Stress corrosion; Fracture; Glass; Proof testing; Static fatigue; 14576. **SP305-6.**
- Stress corrosion; Fracture; Lattice trapping; Slow-crack growth; 16155. **SP305-8.**
- Stress corrosion; Stress corrosion failures; Testing techniques; Aluminum alloys; Copper alloys; Magnesium alloys; Nickel alloys; Steels; 9902. **SP305-1.**
- Stress corrosion; Surface energy; Crack propagation; Fracture surface energy; Glass; Soda-lime glass; Static fatigue; 10129. **SP305-1.**
- Stress corrosion; Tarnish film; Copper; Cupric acetate; Kinetics; Oxidation; 12493. **SP305-4.**
- Stress corrosion; Testing techniques; Chloride; Crevice corrosion, ellipsometry failure prediction; Molybdenum; Repassivation kinetics; Stainless steels; *NBSIR 74-583*. **SP305-7.**
- Stress corrosion; Titanium; Titanium 8-1-1; Vapor phase failure; Methanol; 10503. **SP305-1.**
- Stress corrosion; Tribo-ellipsometry; Repassivation kinetics; Steel; 14283. **SP305-6.**
- Stress corrosion; Ultimate strength; Brittle material; Cleavage; Deformation; Fracture; Hydrogen embrittlement; Mechanical properties; 14476. **SP305-6.**
- Stress corrosion; Vacuum strength; Alumina; Delayed fracture; Grinding of ceramics; Microstructure; SP348, pp. 89-96. **SP305-4.**
- Stress corrosion cracking; Aluminum alloys; Corrosion; Dislocations; Electron microscopy; Precipitates; 11687. **SP305-2.**
- Stress corrosion cracking; Bridge; Failure; Fracture toughness; Point Pleasant; 13346. **SP305-5.**
- Stress corrosion cracking; Brittle fracture; Economics of failure prevention; Fatigue failure; Mechanical failure; Mechanical reliability; SP423. **SP305-8.**
- Stress corrosion cracking; Brittle fracture; Gas main pipe; Impact; Low carbon steel; *NBSIR 74-625*. **SP305-8.**
- Stress corrosion cracking; Stress-sorption; Corrosion; Failure prediction; Film rupture-metal dissolution; Hydrogen embrittlement; SP423, pp. 27-40 (Apr. 1976). **SP305-8.**
- Stress corrosion cracking; Titanium alloys; Chloride; Crevice corrosion; Dissolved oxygen; Ellipsometry; Nitrates; PH; Repassivation kinetics; Stainless steel; 13769. **SP305-5.**
- Stress corrosion cracking; Titanium alloy; Tribo-ellipsometry; Repassivation kinetics; 14189. **SP305-6.**
- Stress corrosion cracking; Ultrasonic inspection; Aircraft component failure; Continuous wave holograms; Crack detection; Holographic techniques; Pulsed laser holograms; SP423, pp. 93-103 (Apr. 1976). **SP305-8.**
- Stress corrosion cracking of glass; Structure of glass; Cracked propagation of glass; Glass; Glass fibers; Hardness of glass; Static fatigue of glass; Strength of glass; 13711. **SP305-5.**
- Stress corrosion failures; Testing techniques; Aluminum alloys; Copper alloys; Magnesium alloys; Nickel alloys; Steels; Stress corrosion; 9902. **SP305-1.**
- Stress distribution; Stresses; Structural engineering; Brick; Failure; Failure theories; Masonry; Shear strength; Shear test; Shear walls; *NBSIR 75-703*. **SP305-7.**
- Stress distribution; Structural engineering; Buckling; Compression members; Concrete; Cracking; Deflection; Eccentricity; Equilibrium; Loads (forces); Masonry; Stability; 15514. **SP305-7.**
- Stress distribution; Unreinforced concrete; Buckling; compression members, concrete; Deflection; equilibrium; Load eccentricity; masonry; Stability; section cracking; 12298. **SP305-3.**
- Stress distributions; Fracture; Glass; Impact; Ophthalmic lenses; 15769. **SP305-8.**

- Stress effects; Superconductors; Symposium; Critical current; Mechanical properties; 16636. SP305-8.
- Stress excess tensor; Two-dimensional flow; Flow with longitudinal gradient; Flow with transverse gradient; Optical anemometry; Optical birefringence; Optical excess tensor; Optical mapping of flow; 15775. SP305-8.
- Stress functions; Anisotropic elasticity; Dislocations; Green's tensor; Incompatibility; Internal stress; Source kernels; SP317, pp. 89-124. SP305-3.
- Stress gages; Transducers; Piezoelectric; Polymeric transducer; Polymers; Polyvinyl fluoride; Polyvinylidene fluoride; 16141. SP305-8.
- Stress intensity; Cracks; Experimental mechanics; Fracture; Fracture toughness; Interferometry; Model experiments; Stress; 15742. SP305-8.
- Stress intensity factor; Fatigue crack propagation; Fatigue of steels; High cyclic bending; Plastic zone sizes; 12627. SP305-4.
- Stress intensity factor; Surface energy; Cleavage; Cohesive strength; Cracks; Double cantilever cleavage technique; Fracture; Fracture mechanics; Glass; 11192. SP305-2.
- Stress optic constants; Birefringence; Germanium; KCl; Refractive index; Single crystal; SP435, pp. 164-169 (Apr. 1976). SP305-8.
- Stress optical constants; Elastic constants; Elasto-optic; Photoelasticity; Polycrystalline ZnSe; 15931. SP305-8.
- Stress (physiological); Stress (psychological); Work; Bibliography; Effort; Environment; Fatigue; Human performance; Human physiology; Psychology; Psychophysics; SP319. SP305-2.
- Stress (psychological); Work; Bibliography; Effort; Environment; Fatigue; Human performance; Human physiology; Psychology; Psychophysics; Stress (physiological); SP319. SP305-2.
- Stress pulse; Temperature wave; Thermal diffusivity; Thermal equilibrium; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Molecular dynamics; Second sound; 16589. SP305-8.
- Stress relaxation; BKZ theory; Constant rate of strain; Creep; Elastic fluid; Nonlinear behavior; Polyisobutylene; Polyvinylchloride; Recovery; 10144. SP305-1.
- Stress relaxation; Thermodynamics; Viscoelasticity; Creep; Dissipation; Elevated temperature; Energy; Hold-time; Hysteresis; Low-cycle fatigue; Plasticity; Stainless steel; 16004. SP305-8.
- Stress relaxation; Thermolytic chain scission; Copolymer; Ethylene-propylene; Linear polyethylene; 9264. SP305.
- Stress relaxation; Time effects; Uniaxial strain; Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; Elastic strain energy function; Finite strain; Non-linear behavior; Non-Newtonian fluids; Normal stresses; 9583. SP305-1.
- Stress relaxation; Torsion pendulum; Viscoelastic methods; Amalgam, dental; Creep; Dental materials; Denture base resins; Indentation test method; Mechanical properties, dental materials; Rocking beam oscillator; SP354, pp. 127-144. SP305-4.
- Stress relaxation; Viscosity; BKZ fluid; Nonlinear behavior; Polyisobutylene; *J.TSA No. 1, 33-40 (1971)*. SP305-3.
- Stress relief; Adherence; Diamond machining; Dielectric mirror; Electroplating; Laser damage resistance; SP435, pp. 66-74 (Apr. 1976). SP305-8.
- Stress rupture; Testing machine; Creep; Instrumentation; *NBSIR 76-1074*. SP305-8.
- Stress rupture of FRP rod; Test methods, FRP rod; Weatherability, FRP rod; Composite materials; Fiber-reinforced-plastic rod; Glass-reinforced-polyester rod; Guys, antenna; Processing parameters, pultrusion; Pultrusion; Reinforced plastic rod; *NBSIR 74-557*. SP305-7.
- Stress rupture of GRP rod; Composite materials; End fitting for FRP rod; Environmental resistance of GRP rod; Fiber-reinforced-plastic rod; Glass-reinforced-plastic rod; Guys, antenna; Mechanical properties of GRP rod; Pultrusion; Reinforced plastic rod; *NBSIR 73-233*. SP305-6.
- Stress strain diagrams; Tantalum; Tensile properties; Evaluation; High temperature tests; Molybdenum; Plastic flow; Porosity ratio; Refractory metals; Strain hardening; Strain rate; 13819. SP305-6.
- Stress wave; Temperature wave; Thermal relaxation; Anisotropy; Crystal; Heat pulse; Lattice; Molecular dynamics; Second sound; 14253. SP305-6.
- Stress wave; Temperature wave; Thermal diffusivity; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Interatomic potential; Molecular dynamics; Second sound; Shock wave; 16138. SP305-8.
- Stress wave interactions; Substrates; Tearing; Vibratory apparatus; Adhesion; Cavitation; Coatings; Design charts; Elastomers; Erosion; Hopkinson pressure bar apparatus; Pedaments; Mismatching; SP452, pp. 120-123 (Sept. 1976). SP305-8.
- Stress waves; Wave propagation; Characteristics; Impedance; Linear viscoelasticity; Partial differential equations; *J.70 187, 257-264 (1966)*. SP305.
- Stress-birefringence; Absorption edge; Birefringence; Dispersion of piezobirefringence; Gallium arsenide; Nonlinear piezobirefringence; Photo-elasticity; Piezobirefringence; Piezooptical coefficients; Resonance-photoelasticity; 105. SP305-2.
- Stress-corrosion; Alpha-brass; Copper; Ellipsometry; Oxidation; Season-cracking; 11539. SP305-2.
- Stress-corrosion; Titanium alloys; Experimental techniques; Stress corrosion testing; High strength steels; Hydrogen embrittlement; Low carbon steels; Stainless steels; 103. SP305-1.
- Stress-corrosion; Titanium oxides; Ti-8-1-1 alloy; Hot cracking; LiCl-KCl eutectic; 11371. SP305-2.
- Stress-corrosion; Underground; Corrosion; Galvanic; Hydrogen embrittlement; Soil; Stainless steel; Stress; 16354. SP305-8.
- Stress-corrosion; 3.5 percent NaCl; 7XXX aluminum alloy; Aluminum Association; ASTM; Industrial atmosphere; Rolling tests; Seacoast atmosphere; Standard; 16656. SP305.
- Stress-corrosion behavior; Coatings; Corrosion behavior; Filamentary tests; Galvanic couples; Soil environment; Stainless steel; *NBSIR 76-1081*. SP305-8.
- Stress-corrosion cracking; Corrosion; Embrittlement; Hydrogen; Steel; 9903. SP305-1.
- Stress-corrosion cracking; Titanium 8-1-1 alloy; Corrosion products; High temperature corrosion; Preoxidation; Stress corrosion; Solid state reactions; 9901. SP305-1.
- Stresses; Accelerating (process); Aging; Break resistance; Cross-linking; Crystal structure; Dimensional stability; Paper; Strains; Stiffness; 11626. SP305-2.
- Stresses; Structural engineering; Brick; Failure; Failure theories; Masonry; Shear strength; Shear test; Shear walls; Stress distribution; *NBSIR 75-703*. SP305-7.
- Stresses; Superconductive transition temperatures; Uniaxial stresses; Anisotropic uniaxial stress effect; Hydrostatic pressure; Reduced strontium titanate; Single crystal; 104. SP305-1.
- Stresses; Surges; Transient flow; Water hammer; Computer modeling; Cooldown; Cryogenic flow; *NBSIR 74-366*. SP305-6.
- Stresses; Tension tests; Alignment; 16324. SP305-8.
- Stresses; Two phase flow; Computer modeling; Cooldown; Cryogenic flow; *NBSIR 75-820*. SP305-7.
- Stress-free equilibrium; Third-neighbor model; Cauchy relations; Central force interaction; Cubic crystals; Second-order third-order elastic constants; 12980. SP305-4.
- Stressing apparatus; Photoelasticity; 15928. SP305-8.



- ess-optic constants; Temperature coefficient of index; Thermal expansion; ZnSe; Chemical vapor deposited ZnSe; Elastic compliance; Elastic constants; Polycrystalline ZnSe; Refractive index; *15938. SP305-8.*
- ess-optical constants; Stress-optical effect; Electrostriction; Electrostrictive coefficients; Free energy; *15710. SP305-8.*
- ess-optical constants; Thermal coefficient of refractive index;  $As_2S_3$ ; Chalcogenide glass; Coefficient of thermal expansion; Elastic constants; Infrared laser window materials; KCl; Photoelasticity; Polycrystalline ZnSe; *SP414*, pp. 141-148. *SP305-6.*
- ess-optical constants; Thermal coefficient of refractive index;  $As_2S_3$ ; Chalcogenide glass; Coefficient of thermal expansion; Elastic constants; Infrared laser window materials; KCl; Photoelasticity; Polycrystalline ZnSe; Refractive index; *NBSIR 74-525. SP305-6.*
- ess-optical constants; Thermal coefficient of refractive index; Coefficient of thermal expansion; Elastic constants; Infrared laser window materials; Photoelasticity; Polycrystalline ZnSe; Refractive index; *NBSIR 75-639. SP305-7.*
- ess-optical constants; Thermal coefficient of refractive index; ZnSe; Birefringence; Elastic constants; Infrared-laser window materials; Interferometry; KCl; Photoelasticity; Polycrystalline ZnSe; Refractive index; *NBSIR 75-781. SP305-7.*
- ess-optical constants; Thermal coefficient of refractive index; Birefringence; Elastooptic constants; Infrared-laser window materials; Interferometry; KCl; Photoelasticity; Piezo-optic constants; Refractive index; *NBSIR 76-1010. SP305-8.*
- ess-optical effect; Electrostriction; Electrostrictive coefficients; Free energy; Stress-optical constants; *15710. SP305-8.*
- ess-optical effects; Strontium titanate; Electro-optical effects; Energy bands; Selection rules; *9620. SP305-1.*
- ess-optics; IR transmitting materials; Photoelasticity; *SP387*, pp. 194-201. *SP305-5.*
- Stress-rupture; Titanium alloy; Creep; Elevated temperature; Engineering design; Notch geometry; Stress concentration; *J74C Nos. 1 and 2, 27-37 (1970). SP305-2.*
- Stress-rupture testing; Sunlight; Ultraviolet radiation; Weatherability; Antenna-support materials; Environmental degradation; Guys, nonmetallic; Marine atmospheres; Plastics, fiber-reinforced; Pultrusions; *NBSIR 76-1069. SP305-8.*
- Stress-sorption; Corrosion; Failure prediction; Film rupture-metal dissolution; Hydrogen embrittlement; Stress corrosion cracking; *SP423*, pp. 27-40 (Apr. 1976). *SP305-8.*
- Stress-strain; Transient creep; Viscoelastic; Amalgam; Creep; Dental; Steady-state creep; *J72C No. 3, 203-213 (1968). SP305-1.*
- Stress-strain curve; Volume dilation; Composite materials; Coupling agents; Epoxy polymer; Parting agents; Poisson's ratio; Release agents; *12379. SP305-3.*
- Stress-strain curves; Tensile properties; Aluminum alloy; Boron/epoxy; Co-cure; Composite materials; Fabrication process; Load-deformation characteristics; Residual stress; Rule of mixtures; Sandwich specimen; *TN812. SP305-6.*
- Stress-strain maps; X-ray diffraction; Crystal orientation; Error propagation; Kossel lines; Lattice spacings; *14625. SP305-6.*
- Stress-strain measurement; Dental amalgam; Dental materials; Diffraction gratings; Modulus of elasticity; Strain gage; *10953. SP305-2.*
- Stress-strain properties; Adhesion; Composite materials; Epoxy polymer; Silane coupling agents; *12987. SP305-4.*
- Stretching vibration; Bending vibration; Bifluoride ion, hydrogen bonding; Infrared; Lattice modes; Neutron scattering; Raman; *13144. SP305-5.*
- Stretching vibration; Bending vibration; Hydrogen bond; Infrared; Isotope dilution; Lattice mode; Raman; Sodium bifluoride; *11983. SP305-3.*
- Stretching vibrations; Infrared spectrum; Monodeuterosilane; Perturbation allowed transitions; Rotational constants; *13689. SP305-5.*
- Striations; Absolute measurements; Aluminum-silicon contact; Four-point probe measurements; Local resolution; *n*-type silicon; Resistivity inhomogeneities; Spreading resistance; *SP400-10*, pp. 109-122. *SP305-6.*
- String of beads; Thermal expansion; Thermal properties; Volume; Bulk modulus; Grüneisen; *n*-alkanes; Normal mode; Polyethylene; Quasiharmonic specific heat; *12305. SP305-3.*
- Strings; Vocabulary; Atom symbols; Bond symbols; Chemical diagrams; Formal grammar; Language; Linguistic analysis; Natural groups; Numerical subscripts; Patterns; *12673. SP305-4.*
- Strip operator; Thermodynamic limit; Distribution functions; Finite volumes; Kirkwood Salsburg equation; Perturbation expansion; *15356. SP305-7.*
- Strip operator approximation; Asymptotic behavior at large cluster separations; Banach space; Kirkwood-Salsburg equation; Perturbation expansion; Product property; *13628. SP305-5.*
- Strip tests; Testing; Testing equipment; Vertical tests; Flammability; *12656. SP305-4.*
- Strip transmission lines; Characteristic impedance; Inductance; *J71C1-444, 59-67 (1967). SP305.*
- Strip-line; Transfer function; Deflector; Drift space; Oscilloscope; Standard; *J72C No. 2, 117-125 (1968). SP305-1.*
- Stripping; Chain scission; Crosslinking; Polymers; Pyrolysis; *SP357*, pp. 47-60. *SP305-4.*
- Stripping cell; Aromatic hydrocarbons; Gas chromatography; Hydrocarbon analysis; Partition coefficient; Sea water; *14955. SP305-7.*
- s*-trithiane; Thioformaldehyde; Ultraviolet photolysis; Vacuum ultraviolet photolysis;  $CH_3S$ ;  $CH_3SH$ ; Dimethyldisulfide; Infrared spectrum; Matrix isolation; Pyrolysis; *15334. SP305-7.*
- Stroke; GaAs; Laser; Optical; Oscilloscope; Photoconductor; Picosecond; Sampling; Sampling oscilloscope; *15835. SP305-8.*
- Strong acid aerosols; Ambient concentration; Chemiluminescent measurement; Continuous monitor; *15397. SP305-7.*
- Strong collision; Classical path approximation; Intermolecular potential; Pressure broadening; *12033. SP305-3.*
- Strong collision; Classical trajectory; Oxygen; Pressure broadening; *12587. SP305-4.*
- Strong electron-phonon coupling; Superconductivity; Electron tunneling; Electronic devices; Far infrared; Josephson effect; *16478. SP305-8.*
- Strong electron-phonon coupling; Superconductivity; Electronic devices; Electron tunneling; Josephson effect; *16486. SP305-8.*
- Strong interactions; Sum rules; Super-resonance; U-spin equalities; Octet symmetry breaking; Q plots; Reaction cross section; *9938. SP305-1.*
- Strong interactions; Three triplet model; Composite model of leptons; Electron number; Leptonic quarks; Larks; Muon-electron universality; Muon number; Neutrino quarks; *15614. SP305-7.*
- Strong lenses; Third-order aberration coefficients; Two-tube electrostatic lens; Weak lenses; Aberration integrals; Asymptotic aberration coefficients; Electron lenses; *14817. SP305-7.*
- Strong lenses; Two-tube electrostatic lens; Weak lenses; Focal properties; Matrix elements; Paraxial; *14151. SP305-6.*
- Strong numerical instability; Conditions for convergence of solutions; Integral equation of first kind; Shifting operators; Slit correction; Slit weighting-function; Small-angle x-ray scattering; *J75B, Nos. 3 and 4, 187-207 (1971). SP305-3.*

- Strongly correlated metals; Surface density of states; Theory; Ferromagnetic transition metals; Field emission; Spin polarization; *J5090*. SP305-7.
- Strongly interacting particles; Deuteron-deuteron scattering; Elastic scattering; Hadrons; High energy scattering; Proton-nucleus scattering; *10893*. SP305-2.
- Strontium; Collisions; Near-resonant scattering; Redistribution; *16261*. SP305-8.
- Strontium; Electron impact; *15860*. SP305-8.
- Strontium; Thorium; Uranium; Chromium; Isotopic ratios; Lead; Model ages; Nickel; Potassium; Rubidium; *13932*. SP305-6.
- Strontium; Trace analyses; Cadmium; Environmental Standard Reference Materials; Isotope dilution; Lead; Molybdenum; Rubidium; *16221*. SP305-8.
- Strontium; Trace analysis; Isotope dilution; Mass spectrometry; Rubidium; Standards; *13862*. SP305-6.
- Strontium; Tungsten; Adsorption; Energy distribution; Field emission; Fowles-Nordheim curves; Resonance tunneling; *10879*. SP305-2.
- Strontium; Ultraviolet; Wavelengths; Yttrium; Zirconium; Molybdenum; Niobium; Rubidium; Spectra; *12675*. SP305-4.
- Strontium and lead tetraborates; Borate; Crystal structure; *9984*. SP305-1.
- Strontium chromates; Strontium-chromium oxide system,  $\text{SrCrO}_4$ ,  $\text{Sr}_2\text{Cr}_2\text{O}_7$ ; Chromium oxide; Phase equilibria; *J73A No. 4, 431-442 (1969)*. SP305-1.
- Strontium compounds; Barium compounds; Radium compounds; Enthalpy; Entropy; Gibbs energy of formation; Beryllium compounds; Magnesium compounds; Calcium compounds; *TN270-6*. SP305-3.
- Strontium manganates; Tetravalent manganese; Trivalent manganese; Four-layer  $\text{SrMnO}_3$ ; Perovskites; Phase equilibria; *11764*. SP305-2.
- Strontium molybdate; Strontium tungstate; Barium tungstate; Dielectric constant; Single crystal; *11724*. SP305-2.
- Strontium titanate; Absorption coefficient; Band structure; Electroreflectance; Optical properties; Perovskite; Reflectivity; *10521*. SP305-1.
- Strontium titanate; Band structure; Effective mass; Electronic transport properties; Semiconductor; *9723*. SP305-1.
- Strontium titanate; Band structure; High magnetic field; Oscillatory magnetoresistance; Shubnikov-de Haas effect; *9725*. SP305-1.
- Strontium titanate; Bandstructure; Insulator; Magnetic susceptibility; Pauli paramagnetism; Semiconductor; *9453*. SP305.
- Strontium titanate; Brillouin zone; Critical points; Infrared; Optical absorption; Phonons; Selection rules; *11575*. SP305-2.
- Strontium titanate; Dielectric relaxation; Electret state; Impurity; Ordering transition; Polarization; Remanent; *16639*. SP305-8.
- Strontium titanate; Effective mass; Energy bands; Ionic crystals; Polarons; Semiconductors; *11011*. SP305-2.
- Strontium titanate; Electric field quenching; Luminescence; Negative resistivity; Photoconductivity; *9753*. SP305-1.
- Strontium titanate; Electro-optical effects; Energy bands; Selection rules; Stress-optical effects; *9620*. SP305-1.
- Strontium titanate; Energy band structure; Magnetoresistance; Semiconductor; *9724*. SP305-1.
- Strontium titanate; Flux growth; High temperature microscopy; Silica flux; Single crystals; *11099*. SP305-2.
- Strontium titanate; Modulation technique; Optical; Piezo-optical; Semiconductor; Silicon; *9708*. SP305-1.
- Strontium titanate; Piezoresistive effects; Semiconductors; *11309*. SP305-2.
- Strontium titanate; Semiconductors; Superconducting semiconductors; Solid state; *11582*. SP305-2.
- Strontium titanate; Superconductivity; Surface potential barrier; Tunneling; Indium; Semiconductors;  $\text{SrTiO}_3$ ; *11925*. SP305-3.
- Strontium titanate; Superconductivity; Semiconductors; *931*. SP305.
- Strontium titanate; Temperature dependence of mobility; Electron mobility; Ionized impurity scattering; Optical mode scattering; *10210*. SP305-1.
- Strontium titanate; Thermometer; Capacitor; Depolarization; Dielectric; Dilution refrigerator; Glass ceramic; Phase transition; *12368*. SP305-3.
- Strontium titanate; Transition metal compounds; Transport measurements; Electronic band structure; Oxides; Semiconductors; *11623*. SP305-2.
- Strontium titanate; Transition metal; Zero phonon line; Charge transfer, color centers; Crystal field;  $\text{D}^4$  ions; EPR; Iron; Optical absorption; Perovskite; *16201*. SP305-8.
- Strontium titanate; Vacancies; Young's modulus; Internal friction; Lanthanum titanate; Phase change; Resonance; *941*. SP305.
- Strontium titanate; Visible emission; Energy transfer; Infrared emission; Lattice phonons; Photoluminescence; *1091*. SP305-2.
- Strontium tungstate; Barium tungstate; Dielectric constant; Single crystal; Strontium molybdate; *11724*. SP305-2.
- Strontium 90 wall-thickness measurement gage; Thin-wall measurement; Attenuation of betas; Beta-transmission phenomenology; Counting geometry; Mass absorption coefficient derivation; *SP335*, pp. 11-21. SP305-3.
- Strontium-chromium oxide system,  $\text{SrCrO}_4$ ,  $\text{Sr}_2\text{Cr}_2\text{O}_7$ ; Chromium oxide; Phase equilibria; Strontium chromates; *J73A No. 4, 431-442 (1969)*. SP305-1.
- Structural; Defective material; Design criteria; Design stress; Glued-laminated timber; Knots; Lamination; Lumber grade; Prestressed wood; Slope of grain; Strength criteria; Strength ratio; Strength-reducing characteristics; *SP361, Vol. 1, 1-625-632*. SP305-4.
- Structural analysis; Axisymmetric; Elastic; Experiment; Finite element analysis; Force transducer; Stiffness matrix; *J71 Nos. 3 and 4, 155-161 (1971)*. SP305-3.
- Structural analysis; Chemical shift; Magnetic hyperfine splitting; Mössbauer spectroscopy; Mössbauer spectrum parameters; Quadrupole splitting; *10435*. SP305-1.
- Structural analysis; Curved bar analysis; Discrete variable; Elastic; Force transducer; Minimum weight;  $n$ -degree elliptical ring; Nonlinear programming; Nonrandom compliance method; Optimization; Rib-stiffened plate; *J.72C No. 4, 24-258 (1968)*. SP305-1.
- Structural analysis; Materials; Mössbauer; Spectrometer; *1165*. SP305-2.
- Structural analysis; Structural design; Ultimate strength; Bending moments; Building codes; Column (supports); Frame; Long columns; Reinforced concrete; Slenderness ratio; Strength; *16412*. SP305-8.
- Structural analysis; Structural engineering; Vibration analysis; Wind load; Finite element, Guyed tower; *SP444*, pp. 11-37-IV-54 (Apr. 1976). SP305-8.
- Structural analysis; Structural testing; Buckling; Column Creep; Creep buckling; Full-scale testing; Load capacity; Performance criteria; Performance evaluation; Performance testing; *12993*. SP305-4.
- Structural analysis; Tall buildings; Wind profiles; Boundary layer; Hurricanes; Loads (forces); Natural disasters; *1463*. SP305-6.
- Structural analysis; Walls; Axial load (force); Bending moment; Building codes; End-fixity; Reinforced concrete; Slenderness ratio; Strength; *11933*. SP305-3.
- Structural and mechanical components; Components, structural; Dry powder painting; Mechanical and structural components; Polymer processed mechanical and structural components; *SP452*, pp. 14-24 (Sept. 1976). SP305-8.
- Structural ceramics; Crack growth; Fracture; Fracture mechanics; Porcelain; Strength; *15322*. SP305-7.

- Structural components; Test procedures; Automobile side impact; Crush characteristics; Displacement measurements; Floor structure; Drop tests; Dynamic crush tests; Impact collisions; Plastic deformation; Static crush tests; Strain measurements; *NBSIR 74-605. SP305-7.*
- Structural composites; Tensile moduli; Tensile strength; Thermal conductivity; Thermal contraction; Boron; Cryogenics; Glass; Graphite; Literature review; *PRD-49*; Reinforced aluminum; Reinforced plastics; *15745. SP305-8.*
- Structural concrete; Aggregate grading; Cement content; Concrete construction; Creep; Durability; Economy; Gapping; Shrinkage; Strength; *SP361, Vol. 1, pp. 711-718. SP305-4.*
- Structural connection; Structural design; Wind load; Design standards; Earthquake load; Masonry construction; Precast concrete construction; Progressive collapse; *15369. SP305-7.*
- Structural connections; Typhoons; Wind loads; Buildings; Codes and standards; Housing; Hurricanes; Low-rise buildings; Natural disaster; *NBSIR 75-790. SP305-8.*
- Structural deflections; Vibration; Wind load; Wood frame construction; Building damping; Drift; Dynamics; Earthquake; Frequency; Housing; Lateral resistance; Racking; Stiffness; *BSS44. SP305-5.*
- Structural design; Building design; Fire protection; Fire resistance; Fire-resistive buildings; *SP361, Vol. 1, pp. 557-566. SP305-4.*
- Structural design; Building system; Column connection; Concrete triaxial strength; Ductility; Neoprene bearing pad; Operation BREAKTHROUGH; Performance tests; Precast concrete; *13401. SP305-5.*
- Structural design; Building system; Column connection; Concrete triaxial strength; Ductility; Neoprene bearing pad; Operation Breakthrough; Performance test; Precast concrete; *TN811. SP305-6.*
- Structural design; Codes; Masonry; Standards; *15404. SP305-7.*
- Structural design; Dynamic analysis; Earthquake; Seismic design; Seismic response; Spherical tanks; *SP444, pp. V-50—V-62 (Apr. 1976). SP305-8.*
- Structural design; Earthquake; Housing; Performance specification; Prefabricated dwelling; Standards; *SP444, pp. IV-55—IV-69 (Apr. 1976). SP305-8.*
- Structural design; Structural joints; Building systems; Housing systems; Large-panel structures; Precast concrete construction; Progressive collapse; *NBSIR 75-715. SP305-7.*
- Structural design; Technology implementation; Wind effects; Wind loads; Codes and standards; Information transfer; Low-rise buildings; Pressure transducers; Socio-economic; *BSS56. SP305-6.*
- Structural design; Theory; Curved bar analysis; Elasticity; Force transducer;  $n$ -degree elliptical ring; Nonlinear programming; Optimization; Proving ring; *J.72C No. 2, 139-160 (1968). SP305-1.*
- Structural design; Turbulence; Wind effects; Wind loads; Aerodynamic forces; Atmospheric boundary layer; *BSS30. SP305-3.*
- Structural design; Ultimate strength; Bending moments; Building codes; Column (supports); Frames; Long columns; Reinforced concrete; Slenderness ratio; Strength; Structural analysis; *16412. SP305-8.*
- Structural design; Wind load; Design standards; Earthquake load; Masonry construction; Precast concrete construction; Progressive collapse; Structural connection; *15369. SP305-7.*
- Structural design; Windows; Crack growth; Fracture mechanics; Glass; Static fatigue; *14284. SP305-6.*
- Structural engineering; Analytical model; Dynamic analysis; Dynamic loading; Earthquake; Energy dissipation; Finite element; Seismic response; *SP444, pp. IV-70—IV-89 (Apr. 1976). SP305-8.*
- Structural engineering; Brick; Failure; Failure theories; Masonry; Shear strength; Shear test; Shear walls; Stress distribution; Stresses; *NBSIR 75-703. SP305-7.*
- Structural engineering; Bridge; Building; Codes; Dams; Earthquake damage; Earthquakes; Foundation geology; Highways; Hospital; Housing; Mobile home; Seismic; Standards; *BSS40. SP305-3.*
- Structural engineering; Buckling; Compression members; Concrete; Cracking; Deflection; Eccentricity; Equilibrium; Loads (forces); Masonry; Stability; Stress distribution; *15514. SP305-7.*
- Structural engineering; Building; Codes; Earthquake damage; Earthquakes; Hazards; Hospital; Natural disasters; Seismic; *14759. SP305-7.*
- Structural engineering; Building codes; Buildings; Design; Earthquakes; *SP444, pp. IV-113—IV-126 (Apr. 1976). SP305-8.*
- Structural engineering; Buildings; Fire loads; Load surveys; Occupancy live loads; *16072. SP305-8.*
- Structural engineering; Buildings; Fire loads; Load surveys; Occupancy live loads; *BSS85. SP305-8.*
- Structural engineering; Concrete (reinforced); Deflection; Disc; Fiber glass; Flexure; *12845. SP305-4.*
- Structural engineering; Design; Earthquake; Highway bridges; Lateral loads; Pile head; Piles; *SP444, pp. IV-90—IV-112 (Apr. 1976). SP305-8.*
- Structural engineering; Design; Earthquakes; Highway bridges; Retrofitting; Soil-structure interaction; *SP444, pp. V-1—V-24 (Apr. 1976). SP305-8.*
- Structural engineering; Earthquake engineering; Grant; RANN; Sponsorship; *SP444, pp. V-66—V-79 (Apr. 1976). SP305-8.*
- Structural engineering; Failure; Probability theory; Random process; Safety; Statistical analysis; *SP444, pp. IV-1—IV-15 (Apr. 1976). SP305-8.*
- Structural engineering; Structures; User requirements; Vibration; Deflection; Load capacity; Performance criteria; Performance evaluation; Stiffness; Strength; *SP361, Vol. 1, pp. 261-266. SP305-4.*
- Structural engineering; Subsystems; Vibration; Analysis; Deflection; Design; Dynamic; Experimental; Human sensitivity; Loading functions; Specifications; Static; *BSS47. SP305-5.*
- Structural engineering; Survey techniques; Buildings; Fire loads; Occupancy live loads; Load surveys; *TN858. SP305-7.*
- Structural engineering; Tall buildings; Turbulence; Wind (meteorology); Acceleration; Aerodynamics; Building (codes); Deflection; Dynamic structural analysis; Pressure; Spectra; *14534. SP305-6.*
- Structural engineering; Technological aid; Earthquake; Japan; Natural disaster; Storm; *SP444, pp. VI-25—VI-31 (Apr. 1976). SP305-8.*
- Structural engineering; Tensile strength; Transversely isotropic materials; Axisymmetric analysis; Cables (ropes); Composite materials; Contour plotting; End fittings for FRP rod and rope; Finite element analysis; FRP rod; FRP rope; Materials testing; *15399. SP305-7.*
- Structural engineering; Tests; Dynamic tests; Earthquake simulator; Shake table; *SP444, pp. V-25—V-34 (Apr. 1976). SP305-8.*
- Structural engineering; Tides; Wind; Buildings; Failure; Hurricanes; Mobile homes; Roofs; *TN569. SP305-3.*
- Structural engineering; Tides; Wind; Buildings; Cyclones; Disasters; *BSS86. SP305-8.*
- Structural engineering; Tornadoes; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; *BSS61. SP305-7.*
- Structural engineering; Tornadoes, wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; *SP444, pp. V-35—V-49 (Apr. 1976). SP305-8.*
- Structural engineering; Tornadoes; Wind; Missiles; Nuclear engineering; *NBSIR 76-1050. SP305-8.*

- Structural engineering; Tornados; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; *NBS-GCR-75-36*. SP305-8.
- Structural engineering; Tornados; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; *NBS-GCR-75-37*. SP305-8.
- Structural engineering; Tornados; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; *NBS-GCR-75-38*. SP305-8.
- Structural engineering; Towers; Vortex shedding; Wind loads; Aeroelasticity; Buildings; Circular cylinders; Gust factors; Masts; *BSS30*, pp. 115-128. SP305-3.
- Structural engineering; Vibration analysis; Wind load; Finite element; Guyed tower; Structural analysis; *SP444*, pp. IV-37-IV-54 (Apr. 1976). SP305-8.
- Structural engineering; Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry; Moments; Slenderness ratio; Stability; 12227. SP305-3.
- Structural engineering; Walls; Bricks; Building codes; Buildings; Concrete blocks; Masonry; Research; Reinforced masonry; 14107. SP305-6.
- Structural engineering; Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry; Moments; Slenderness ratio; Stability; 15507. SP305-7.
- Structural engineering; Web reinforcement; Column; Ductility; Earthquake; Reinforced concrete; Shear tests; *SP444*, pp. IV-16-IV-36 (Apr. 1976). SP305-8.
- Structural engineering; Wind; Wind damage; Wind engineering; Building codes; Design standards; Masonry construction; Roofs; Siding; *TN909*. SP305-8.
- Structural engineering; Wind damage; Wind loads; Buildings; Codes and standards; Cyclones; Natural disasters; 15609. SP305-7.
- Structural engineering; Wind effects; Building; Earthquakes; Hazards; Land use; *BSS46*. SP305-5.
- Structural engineering; Wind engineering; Wind loads; Accelerations; Buffeting; Building codes; Buildings; Deflections; Dynamic response; Gust factors; *BSS74*. SP305-7.
- Structural engineering; Wind engineering; Wind loads; Accelerations; Building codes; Buildings; Deflections; Dynamic response; Gust factors; 15871. SP305-8.
- Structural engineering; Wind load; Anchorage; Building performance; Glazing; Hailstones; Masonry; Mobile homes; Roofs; *TN558*. SP305-3.
- Structural engineering; Wind loads; Wind tunnel modeling; Aeroelasticity; Buildings; Dynamics; Statistical analysis; *BSS30*, pp. 107-114. SP305-3.
- Structural engineering; Wind loads; Vibrations; Buildings; Climatology; Seismic loads; *BSS30*, pp. 129-131. SP305-3.
- Structural engineering; Wind loads; Wind profile; Buildings; Climatology; Extreme value theory; Gust factors; Structures; S. C. Hollister, *BSS30*, pp. 151-164. SP305-3.
- Structural engineering; Wind loads; Wind speeds; Building codes; Probability distribution function; Reliability; Risk; Statistical analysis; Storms; 15558. SP305-7.
- Structural engineering; Wind loads; Wind speeds; Building codes; Extreme value distributions; Hurricanes; Probability distribution functions; Reliability; Risk; Statistical analysis; Storms; *TN868*. SP305-7.
- Structural engineering; Wind loads; Building codes; Buildings; Deflections; Dynamic response; Gust factors; *SP444*, pp. IV-127-IV-144 (Apr. 1976). SP305-8.
- Structural engineering; Wind (meteorology); Wind pressure; Buildings (codes); Failure; Probability distribution functions; Reliability; 16544. SP305-8.
- Structural engineering; Wind pressure; Wind speed; Buildings (codes); Hurricanes; Probability distribution functions; Reliability; Risk; Statistical analysis; Storms; 16545. SP305-8.
- Structural engineering; Wind profiles; Wind speed; Aerodynamics; Dynamic response; Gust factor; 14106. SP305-6.
- Structural failure; Basic and applied research; Economic corrosion; Industrial design; Materials protection; 92. SP305.
- Structural failure; Basic and applied research; Economic corrosion; Industrial design; Materials protection; 92. SP305-1.
- Structural failure; Wind loads; Buildings; Design criteria; Dynamics; Gust factors; Smoke stacks; *BSS30*, pp. 115-128. SP305-3.
- Structural failures; Deterioration; Failure; Limit states design; Mode of failure; Reliability; 14106. SP305-6.
- Structural glued laminated timber; Timber, structural glulam; Laminated; Glued laminated timber; Laminated timber; *P573*. SP305-5.
- Structural guys; End fittings; GFRP rod and rope; 159. SP305-8.
- Structural interpretation of immiscibility; Super-duty silicon; Brick; Glass chromatography; Immiscibility and courses of crystallization; Immiscibility and practical applications; miscibility and thermodynamics; Immiscibility in oxide; Liquid immiscibility; 11902. SP305-3.
- Structural joints; Building systems; Housing systems; Lateral panel structures; Precast concrete construction; Progress collapse; Structural design; *NBSIR 75-715*. SP305-7.
- Structural load; Apartment dwelling; Burnout test; Fire load; Fire performance; Flame penetration; Potential heat; *BSS30*. SP305.
- Structural loading; Buildings; Codes; Design criteria; Regulatory system; Safety; Standards; 15503. SP305-7.
- Structural masonry; Brickwork; Experimental; Lateral load; Performance; Research; Residential structures; Safe *SP361*, Vol. 1, pp. 567-576. SP305-4.
- Structural materials; Superconducting machinery; Thermal conductivity; Composites; Fracture; Liquid helium; Mechanical properties; *NBSIR 74-359*. SP305-6.
- Structural materials; Superconducting machinery; Thermal conductivity; Composites; Elastic properties; Fracture; Liquid helium; Mechanical properties; *NBSIR 74-393*. SP305-7.
- Structural materials; Superconducting machinery; Thermal conductivity; Composites; Elastic properties; Fracture; Liquid helium; Mechanical properties; *NBSIR 75-810*. SP305-7.
- Structural mechanics; Uncertainty; Creep; Fire endurance; Fire tests; Reinforced concrete; Sensitivity analysis; Steel; *BSS30*. SP305-8.
- Structural panel; Fire endurance; Fire test; Flame penetration; Floor assembly; Housing systems; Operation BREAKTHROUGH; Paper honeycomb; 13405. SP305-5.
- Structural panel; Fire endurance; Fire test; Flame penetration; Glass reinforced plastic; Housing systems; Interdwelling wall; Modular construction; Operation BREAKTHROUGH; Paper honeycomb; 13407. SP305-5.
- Structural panel; Fire endurance; Fire test; Flame-through failure; structural panel; Glass-fabric reinforced plastic; Housing systems; Operation BREAKTHROUGH; Paper honeycomb; Roof/ceiling assembly; 13408. SP305-5.
- Structural panels; Glass-fiber reinforced polyester panels; Panels, glass-fiber reinforced polyester; Plastic panels, structural; *P553-72*. SP305-4.
- Structural parameters; Dipole moment; HNSO; Isotopic spectra; Microwave spectrum; Stark effect; 11020. SP305-2.
- Structural parameters; Torsional mode; Vibrational fundamentals; Barrier height to internal rotation; Fluoroethanes with symmetric top; Ideal gas thermodynamic functions; *J. Phys. Chem. Ref. Data* 4, No. 2, 441-456 (1975). SP305-7.
- Structural performance; Aggregates; Cement; Concrete; Concrete quality; Materials; Performance; Portland cement; *SP361*, Vol. 1, pp. 719-724. SP305-4.



- Structural performance; Tests; Analysis; Concrete beams; Concrete plates; Ducts; Openings; Serviceability; Strength; *SP361, Vol. 1*, pp. 545-556. **SP305-4.**
- Structural programming; Block structure; Control flow; GOTOs; programming; Language design; Precompiler; Quality flow; *14916. SP305-7.*
- Structural relationships; Tetracalcium phosphate; Twinning; Crystal structure; Hydroxyapatite; Single crystal x-ray diffraction; *14263. SP305-6.*
- Structural relaxation; Critical-point effect; Immiscible glasses; Longitudinal ultrasonics; Phase separation; Shear ultrasonics; *SP754. SP305-4.*
- Structural relaxation; Thermal relaxation; Volume viscosity; Brillouin scattering; Density fluctuations in liquids; Rayleigh scattering; Spectral distribution of scattered light; *J.72A No. 95-100 (1968). SP305-1.*
- Structural relaxation; Transport phenomena; Viscous flow; Critical point theories; Immiscibility; Phase transitions; *J.75A No. 3, 175-184 (1971). SP305-3.*
- Structural relaxation; Ultrasonic spectroscopy; Critical transport; Critical viscosity; Critical viscous flow; *12120. SP305-5.*
- Structural response; Volcanoes; Wind; Bridges; Buildings; Codes; Disaster; Dynamic analysis; Earthquakes; Modeling; *SP444. SP305-8.*
- Structural response; Wind loads; Buildings; Deflections; Instrumentation; *TN873. SP305-7.*
- Structural safety; Anthropometric measurements; Guardrails; Industrial accidents; Nonstructural safety; Occupational hazards; Performance standard; Personnel railings; Personnel safety; *NBSIR 76-1132. SP305-8.*
- Structural safety; Design; Dynamic loads; Guardrails; Industrial accidents; Nonstructural safety; Occupational hazards; Performance standard; Personnel railings; Personnel safety; Static loads; Stiffness; *NBSIR 76-1131. SP305-8.*
- Structural safety; Structural serviceability; Building; Evaluation; Performance criteria; Physical simulation; *14620. SP305-6.*
- Structural sandwich; Accelerated aging; Adhesives; Bonded structures; Durability; Glass fiber reinforced plastics; Housing systems; Operation BREAKTHROUGH; Paper honeycomb; Performance criteria; *SP361, Vol. 1*, pp. 761-775. **SP305-4.**
- Structural sandwich; Sustained load; Accelerated aging; Adhesive bond; Ductility; Flexural shear; Housing systems; Local buckling; Material variability; Moisture conditioning; Operation BREAKTHROUGH; Paper honeycomb; *BSS51. SP305-6.*
- Structural sandwich panel; Exterior wall; Fire endurance; Fire test; Housing systems; Operation BREAKTHROUGH; Paper honeycomb; Roof/ceiling assembly; *13394. SP305-5.*
- Structural sandwich panel; Temperature; Testing; Building composite; Building material; Conditioning; Equilibration; Gypsum wallboard; Methodology; Relative humidity; *NBSIR 75-767. SP305-7.*
- Structural serviceability; Building; Evaluation; Performance criteria; Physical simulation; Structural safety; *14620. SP305-6.*
- Structural stability; Brick walls; Combined loading; Compressive strength; Flexural strength; High bond mortar; Masonry walls; Moment magnifier effect; Slenderness effects; *12869. SP305-4.*
- Structural stability; Buckling; Compressive strength; Concrete block walls; Elastic stability; Flexural strength; Masonry walls; Reinforced concrete masonry walls; Slenderness effect; *BSS33. SP305-2.*
- Structural stability; Walls; Brick; Cavity walls; Composite walls; Compressive strength; Concrete block; Flexural strength; Masonry; Mortar; Slenderness effects; Standards; *BSS34. SP305-3.*
- Structural stability; Walls; Brick; Buckling; Composite walls; Compressive strength; Concrete block; Constitutive relations; Flexural strength; Masonry; Masonry walls; Mortar; Slenderness ratio; Standards; Stiffness; *BSS73. SP305-8.*
- Structural steels; Surface hardening; Tempering; Tool steels; Annealing; Case hardening; Chemical composition; Degradation; Heat treatment; Ni-maraging steels; Normalizing; Stainless steels; *Mono. 88. SP305.*
- Structural studies;  $\beta$ -ZrO<sub>2</sub> · 12Nb<sub>2</sub>O<sub>5</sub>; Electron microscopy; High resolution; *14191. SP305-6.*
- Structural testing; Bicycle; Consumer safety; Regulations; Safety; *NBSIR 75-913. SP305-8.*
- Structural testing; Buckling; Columns; Creep; Creep buckling; Full-scale testing; Load capacity; Performance criteria; Performance evaluation; Performance testing; Structural analysis; *12993. SP305-4.*
- Structural testing; Universal testing machine; Force calibration; Large test facilities; *SP355. SP305-3.*
- Structural tests; Sustained load; Transportation; Vibration; Wood-frame; Deflection; Housing; Laboratory; Module; Racking; Stiffness; Strength; *13389. SP305-5.*
- Structural transformations; Surface adsorption; Biopolymers; Helix-coil transition; Phase transitions in biopolymers; Self-assembly; *15721. SP305-8.*
- Structural vibration; Acoustics; Building acoustics; Impact noise; Noise; *NBS-GCR-75-33. SP305-8.* Structure; Acid; Bile; Bilirubin; Biliverdine; Charge-transfer; Complex; Degradation; Iodine; Methyl-sulfoxide; Periodic; Pigment; *12530. SP305-4.*
- Structure; Alloy; Directional solidification; Incongruent melting alloy; Peritectic reaction; Sn-Cd alloys; *14748. SP305-7.*
- Structure; Ammonium perchlorate; Lattice dynamics; Raman scattering; *15701. SP305-7.*
- Structure; Analysis; Carbohydrates; Conformations; Infrared spectra; Spectrometry; *Monogr. 110. SP305-1.*
- Structure; Arsine; Infrared high resolution; Perturbation-allowed transitions; Resonances; Secular determinants; Spectra; *14953. SP305-7.*
- Structure; Barrier; Coriolis; Dipole moment; Microwave spectrum; Phosphorus trifluoride-borane; *9862. SP305-1.*
- Structure; Benitoite; Crystal; X-ray; Barium tetragermanate; *J.70A5-411, 385-391 (1966). SP305.*
- Structure; Building; Explosion; Frequency; Gas; Gas industry; Progressive collapse; Risk; Statistics; *13782. SP305-5.*
- Structure; Butadiene; Isomerism; Microwave spectroscopy; Propionaldehyde; Rotational; *9894. SP305-1.*
- Structure; CF<sub>2</sub>; Dipole moment; Force field; Microwave spectra; *14348. SP305-6.*
- Structure; CF<sub>2</sub>; Dipole moment; Free radical; Microwave spectrum; *9380. SP305.*
- Structure; Density; Energy gap; Inorganic compounds; Melting point; *16163. SP305-8.*
- Structure; Dichlorotetraphazolecopper; Neutron diffraction; *15578. SP305-7.*
- Structure; Dinitrogen trioxide; Equilibrium; Microwave spectrum; *9253. SP305.*
- Structure; Dipole moment; Microwave spectrum; Reactive species; Rotational spectra; Thioformaldehyde; *12325. SP305-3.*
- Structure; Dipole moment; Microwave spectra; Nitrous acid; Quadrupole coupling constants; *9647. SP305-1.*
- Structure; Patterson; Vector; Symmetry; Consistency; Frequency; Superposition; Crystal; *J.70A4-407, 319-321 (1966). SP305.*
- Structure; Resistivity; Seebeck coefficient; Sodium tungstate; *SP364, pp. 41-50. SP305-4.*
- Structure; Structure memory; Alpha-phase; Crystallography; Silver iodide; Site-occupation; *10322. SP305-1.*
- Structure; Subsystem; URB5; ABS; Building systems; College buildings; Dormitories; HVC; Laboratories; Lighting/ceiling;

- Performance specifications; Procurement process; SCSD; *SP361, Vol. 1*, pp. 303-315. **SP305-4.**
- Structure; Superoxide; Alkaline; Complex; Copper, e.s.r.; Ligand; Paramagnetic; Reagent; Spectra; *J.74A No. 5, 723-731 (1970)*. **SP305-2.**
- Structure; Surface; Adsorption; Amorphous; Free-radical; Ionic; Manganese dioxide; Polycrystalline; *12314. SP305-3.*
- Structure;  $SU(6)_W$ ; Symmetry; Exotic; Mesons; Reactions; *11974. SP305-3.*
- Structure;  $SU(6)_W$ ; Symmetry; Exotic; Mesons; Reactions; *14543. SP305-6.*
- Structure; Tall buildings; User requirements; Building; Performance criteria; Performance evaluation; *12779. SP305-4.*
- Structure; Tautomerism; Dipole moment; Microwave spectrum; Pyrazole; Stark effect; *10475. SP305-1.*
- Structure; Tetrakis-pyrazole-nickel chloride; X-ray; Octahedral complex; Single crystal; *10240. SP305-1.*
- Structure; Theory; Aeronomy; Atmosphere; Atmospheric; *11074. SP305-2.*
- Structure; Theory; Wind; Bridge; Design; Field data; Gust response; Model; Specifications; *SP444*, pp. 1-1-1-20 (Apr. 1976). **SP305-8.**
- Structure; Thermodynamic analysis; Alkali hexafluorotellurates; Inorganic complex; Intermediate phases; *14298. SP305-6.*
- Structure; Time-of-flight; Cross section; Hydrogen; Neutron; Neutron-proton scattering; *11448. SP305-2.*
- Structure; Transport; Diffraction; Inelastic; Interaction; Materials; Neutron; Properties; Reaction; Scattering; *10553. SP305-1.*
- Structure; Two-way tables; Analysis of variance; Interaction; Principal components; *13629. SP305-5.*
- Structure; Ultraviolet spectrum; Charge transfer; Infrared spectrum; Isotopic substitution; Matrix isolation;  $O^- + O_2$  reaction;  $O_2^-$  anion;  $O_4^-$  anion; *12938. SP305-4.*
- Structure; Ultraviolet spectrum; Vacuum-ultraviolet photolysis;  $CO_2$ ;  $CO_3$ ; Force constants; Infrared spectrum; Matrix isolation; O-atom reaction; *12101. SP305-3.*
- Structure; Vacuum ultraviolet photolysis; Acetylene; Discharge; Ethynyl ( $HC_2$ ); Infrared spectrum; Interstellar molecule; Matrix isolation; *15003. SP305-7.*
- Structure; Vibrational frequency; Dipole moment; Ethynyl-difluoroborane; Microwave spectrum; Rotational constant; *14366. SP305-6.*
- Structure; Vibrational fundamental; Centrifugal distortion; Force field; Microwave; Spectrum  $SF_6$ ; *13995. SP305-6.*
- Structure; Vibrational state; Centrifugal distortion; Chemistry; Disulfur monoxide; Microwave spectra; *14433. SP305-6.*
- Structure; Vinylamine; Dipole moment; Ethylamine; Pyrolysis reactions; Rotational spectrum; *15258. SP305-7.*
- Structure; Water; Density; Dielectric constant; Excess molar volume; Kirkwood correlation parameter; N-methylpropionamide; *10988. SP305-2.*
- Structure; Wave function; Correlations; Neutrons; Pairing; Quartetting; Shell-model; *12851. SP305-4.*
- Structure; X ray; Cobalt; Complexes; Hexakis(imidazole)cobalt(II) nitrate; Imidazole, neutron; *15280. SP305-7.*
- Structure; X-ray;  $BaO \cdot B_2O_3$ ; Barium borate; Borate; Crystal; *9943. SP305-1.*
- Structure; X-ray; Betaine form; Pyrazole; *10227. SP305-1.*
- Structure; X-ray; Bromine; Copper; Crystal; Pyridine N-oxide; *12661. SP305-4.*
- Structure; X-ray diffraction; Constants; Crystal; Lattice; Measurements; Powder-patterns; Reference-intensities; Standard; *Mono. 25, Section 5. SP305.*
- Structure; X-ray diffraction; Constants; Crystal; Lattice; Measurements; Powder-patterns; Reference-intensities; Standard; *Monogr. 25, Section 6. SP305-1.*
- Structure; X-ray photoelectron spectroscopy; Oxygen; Ruthenium; Satellite; Shake-up; *15147. SP305-7.*
- Structure; 1,3-bis(phenylhydrazono); Cation; Charge-resonance; Diphenylformazan; Heteropolar; Protonation; *11337. SP305-2.*
- Structure analysis; Calculations; Conversion electrons; Coulomb statistics; Cross sections; Cryostats; Electric field gradient; Tensor; Electronics; Gas analysis; Heterogeneity; Interferometric; Internal magnetic field; Iron; Molybdenum; *TN501. SP305-2.*
- Structure, atomic spectra; Atomic spectra; Spectra, atomic; *12749. SP305-4.*
- Structure determination; S-carboxymethyl-L-cysteine sulfoxide; X-ray, zwitterion; Hydrogen bonding; Single crystal; *14543. SP305-8.*
- Structure determination; Twinning; Benzene ring; High-pressure; Single-crystal; *11422. SP305-2.*
- Structure factor; Condensate fraction; Density and temperature; Liquid helium; Neutron diffraction; Pair correlation function; Three-atom correlation function; *14023. SP305-6.*
- Structure factor; Correlation function; Interatomic potential; Neutron; Neutron diffraction; *12524. SP305-4.*
- Structure factor; Limit of stability; Mean field theory; Meissner effect; Perturbation scheme; Reference system; *11074. SP305-8.*
- Structure factor; Superfluid transition; Ground state wave function; Liquid  $^4He$ ; Neutron diffraction data; Pair correlation function; Short range behavior; *J.77A No. 6, 723-731 (1973). SP305-5.*
- Structure factors for electrons of  $TiO$ ; Critical voltage for photoemission; 400 of  $TiO$ ; Critical voltage for the 110 of  $TiO_2$  (rutile); Determination of structure factor by high voltage electron diffraction; *SP364*, pp. 155-164. **SP305-4.**
- Structure memory; Alpha-phase; Crystallography; Silver ion; Site-occupation; Structure; *10322. SP305-1.*
- Structure of  $B_2O_3$ ; Two-state model; Free volume; *SP305-1.*
- Structure of glass; Cracked propagation of glass; Glass; Glass fibers; Hardness of glass; Static fatigue of glass; Strengthening of glass; Stress corrosion cracking of glass; *13711. SP305-5.*
- Structure of glass; Vitron theory; Binary borates; Binary borates; Born glass; Glass; Homogenization of glass melts; Immiscible glass melts; Immiscibility gaps; Silica glass; *J.77A No. 2, 259-272 (1973). SP305-5.*
- Structure of ions; Ion-molecule reactions; Hydrocarbons; Radiolysis; Reaction rates; *10729. SP305-1.*
- Structure of solutions; Thermodynamics of mixture; Electrolyte solutions; Ionic cosphere; *14914. SP305-7.*
- Structure refinement; Thermal motion; Water molecule; Field angle; Diffraction; Fluoride; Hydrate; Hydrogen bond; Neutron diffraction; *12819. SP305-4.*
- Structure refinement; Thermal motion; Crystal structure; Hydrogen peroxide; Hydrogen bonds; Hydrogen peroxide; Neutron diffraction; *15271. SP305-7.*
- Structure search; Substructure search; Ambiguity; Binary matrices; Bond adjacency; Chemical information; Comparison; Control vector; Set reduction; *12337. SP305-3.*
- Structure shielding; Albedo; Civil defense; Ducts; Neutron penetration; Nuclear weapons data; *11988. SP305-3.*
- Structure shielding; Angular distributions; Civil defense; Fallout; Gamma radiation; Monte Carlo; *12764. SP305-4.*
- Structure, testing; Building; Connections; Housing; Neoprene; Performance criteria; Performance evaluation; Performance testing; Reinforced concrete; Standard tests; *TN706. SP305-4.*
- Structure transitions; Sulfides; Tellurides; Transition-metal chalcogenides; Trigonal-prismatic coordination; Dichalcogenides; Intercalation compounds; Layer structures; Modulated structures; Occupation waves; Selenides; *SP364*, pp. 625-635. **SP305-4.**
- Structure-borne noise control; Airborne; Multifamily; Noise control; *10457. SP305-1.*

tured programming; System errors; System performance; System proving; Compiler; Computer network; Documentation; Dynamic software analysis; Interpreter; Quality control; Software testing; Software verification; Static software analysis; *TN800*. SP305-6.

tured programming; Top-down design; GOTO statements; Hierarchical design; Programming; *14557*. SP305-6.

tured programming; Top-down programming; Control structures; GOTO-less programming; Program validation; Programming; Proofs of correctness; Referential transparency; Software quality; *TN842*. SP305-6.

tures; Buckling; Computers; Experimental methods; Instability; Models; *14657*. SP305-6.

tures; Building; Building codes; Earthquakes; Hazards; Natural disasters; *14553*. SP305-6.

tures; Building codes; Buildings; Earthquakes; Hazards; Natural disasters; *TN807*. SP305-5.

tures; Building criteria; Design; Optimization; Reliability; Safety; Serviceability; *SP361*, Vol. 1, pp. 181-190. SP305-4.

tures; Combined environments; Components; Material performance; Predictive testing; *SP336*, pp. 403-404. SP305-5.

tures; Design mode; Limit states design; Load; Performance criteria; Reinforced concrete; Reliability; Resistance mode; Safety; Serviceability; Stability; *14656*. SP305-5.

tures; Fallout protection in structures; Radiation shielding; *996*. SP305-1.

tures; Substructure searches; Chemical; Computers; Keyword notation; Information retrieval; Linear notation; *482*. SP305.

tures; Three-dimensional reconstruction; Stereology; Stereometry; Stereoscopy; Stochastic models; *SP431*. SP305-5.

tures; Topological codes; Chemistry; Compounds; Computer; File organization; HAYSTAC; Hayward; Information retrieval; Linear notation; Markush; Mixtures; Reactions; Representations; Screens; *10363*. SP305-1.

tures; Unidentified molecular lines; Microwave spectra; Predicted spectra; Radio astronomy; Silicon molecules; *4867*. SP305-7.

tures; User requirements; Vibration; Deflection; Load capacity; Performance criteria; Performance evaluation; Stiffness; Strength; Structural engineering; *SP361*, Vol. 1, pp. 261-266. SP305-4.

tures; Windstorms; Buildings; Construction; Design; Developing countries; Earthquakes; Low-cost housing; Natural disasters; *B5548*. SP305-6.

tures;  $^{232}\text{Th}(n,f)$ ;  $^{238}\text{U}(n,f)$ ; Cross sections; *SP425*, pp. 642-645. SP305-7.

tures of ions; Collisional stabilization; Hydrocarbons; Ion-molecule reactions; Photoionization; Rate constants; *J76A No. 3*, 253-262 (1972). SP305-4.

ickelberg Equation; Cs; Excitation-transfer collisions; He; *NBSB*; *10952*. SP305-2.

"Student" boys'; Body sizing standards; Boys' size standards; *10765*. SP305-1.

Student-r; Table of Student-r; Uncertainties; Standard deviation; Statistics; *J73C Nos. 1 and 2*, 15-16 (1969). SP305-1.

Study; Infrared; Inositol; Osootriazole; Parabromophenyl; Preparation; Spectra; *12450*. SP305-4.

Study  $\text{EuFe}_{1.34}\text{Ga}_{2.66}\text{O}_{12}$ ; Single crystal x-ray diffraction; *10768*. SP305-1.

turn theorem; Budan theorem; Exact computation; Integer arithmetic; Modular arithmetic; Polynomial; Polynomial real roots; Roots; *J78B No. 1*, 39-43 (1974). SP305-6.

turmians; Close coupling; Electron-atom scattering; Polarizabilities; Pseudo-states; *12950*. SP305-4.

Sturm-Liouville systems; Boundary value problems; Coupled equations; Differential equations; Self-adjoint equations; *J75B, Nos. 3 and 4*, 125-138 (1971). SP305-3.

Stylus instruments; Surface texture measurement; Surface texture parameters; Vertical resolution; Electron microscopes; Horizontal resolution; Optical instruments; *15613*. SP305-7.

Styrene; Copolymers; Crosslinking; Divinylbenzene; Infrared; *11884*. SP305-3.

Styrene; Sulfonation; Sulfuric acid; Copolymer; Divinylbenzene; Homogeneity; Ion-exchange; Kinetics; Nitrobenzene; *10639*. SP305-1.

Styrene-acrylate; Vinyl-acrylic; Vinyl acetate-dibutyl maleate; Vinyl acetate-ethylene; Vinyl acetate-ethyl acrylate; Vinyl acetate-2-ethyl-hexyl acrylate; Vinyl chloride-acrylate; Acrylic; Alkyd modified latex paints; Deep-tone latex paints; Infrared spectroscopy; *13816*. SP305-6.

Styrene-acrylate resin; Styrene-butadiene resin; Chlorinated paraffin; Infrared spectroscopy; Solvent type paint; *11423*. SP305-2.

Styrene-butadiene; Surface fillers; Vinyl toluene-acrylate; Vinyl toluene-butadiene; Absorbance ratio method; Infrared spectroscopy; Resins; *12417*. SP305-4.

Styrene-butadiene; Vinyl-acrylic; Acrylic; Identification; Infrared spectroscopy; Latex paints; Polyvinyl acetate; Separation; *10415*. SP305-1.

Styrene-butadiene resin; Chlorinated paraffin; Infrared spectroscopy; Solvent type paint; Styrene-acrylate resin; *11423*. SP305-2.

Styrene-butadiene resins; Absorbance ratio method; Bound styrene; Infrared; Masonry paints; *9994*. SP305-1.

Styrene-butadiene rubber; Butyl rubber; Constants; Natural rubber; Neoprene; Physical constants; Polymers; Properties; Rubbers; *10136*. SP305-1.

Styrene-butadiene rubber (SBR); Washes; Bound styrene; Carbon black; Chemical analysis; Latexes; Oil; Organic acid; Serums; Soap; Stabilizer; *TN485*. SP305-1.

Styrene-butadiene rubbers; Butyl rubber; Constants; Natural rubber; Neoprene; Physical constants; Polymers; Properties; Rubbers; *14858*. SP305-7.

Styrene/divinylbenzene; Ultra-pure reagents; Gas chromatography; Infrared analysis; Ion exchange; Liquid chromatography; Purification; Separation; *TN509*. SP305-2.

Styrene/divinylbenzene; Zeolites; Air pollution; Bilirubin; Infrared analysis; Ion exchange; Liquid chromatography; Purification; Separation; *TN549*. SP305-3.

Subadditive set valued function; Eigenvalues; Field of values; Gersgorin set; Numerical radius; Spectrum; *13845*. SP305-6.

Sub-boiling; Trace elements; Distillation; Isotope dilution; Pure reagents; Spark source mass spectrometry; *13088*. SP305-5.

Subcritical; Supercritical; Centrifugal pump; Critical heat flux; Film boiling; Forced convection; Heat transfer; Helium; Nucleate boiling; *13666*. SP305-5.

Subcritical; Supercritical; Critical heat flux; Film boiling; Forced convection; Heat transfer; Helium; Nucleate boiling; *14930*. SP305-7.

Subcritical; Supercritical; Transition; Turbulent flow; Buoyancy; Channels; Film boiling; Forced convection; Helium I; Helium II; Mixed convection; Nucleate boiling; *TN675*. SP305-8.

Subcritical flow; Supercritical flow; Transcritical flow; Turbulence; Circular cylinders; Power spectra; Pressure fluctuations; *B5530*, pp. 87-91. SP305-3.

Subcritical region; Viscosity; Correlation length; Ginzburg-Landau theory; Glass; Inhomogeneous system; *16258*. SP305-8.

Subdivision; Variance-covariance matrix; Angle standard; Autocollimator; Calibration; Complete closure design; Indexing table; Least squares estimation; Partial closure design; Standard deviation; *NBSIR 75-750*. SP305-8.

Subflooring; Underlayment; Wood-frame construction; Concentrated-load capacity; Evaluation criteria; Floors; Hardboard;

- Load capacity; Operation BREAKTHROUGH; Performance criteria; Plywood subflooring; *13388. SP305-5.*
- Subflooring; Underlayment; Wood-frame construction; Evaluation criteria; Floors; Hardboard; Load capacity, performance criteria; Plywood subflooring; *B5553. SP305-6.*
- Subfloors; Underlayment; Wood; Wood joists; Concentrated loads; Deflection; Floor hardboard; Housing; Impact energy; Operation BREAKTHROUGH; Plywood; *13472. SP305-5.*
- Subfloors; Underlayment; Wood; Wood joists; Concentrated loads; Deflection; Floor; Hardboard; Housing; Impact energy; Operation BREAKTHROUGH; Plywood; *B5552. SP305-6.*
- Subgrains;  $\text{CaF}_2$ ; Crack coalescence; Flaw detection; Flaw distribution; Forging; Grain boundary mobility; *SP462*, pp. 69-81 (Dec. 1976). *SP305-8.*
- Sub-halides; Boron; Fluorine; NMR; Polysilanes; Silicon; *9229. SP305-5.*
- Subharmonic steps; Josephson junction; *13139. SP305-5.*
- Subharmonics; Nonlinear; *12217. SP305-3.*
- Subject index; Author index; Bibliography; Heavy-atom isotope effects; Isotope effects; Kinetic isotope effects; Reaction kinetics; *SP349. SP305-4.*
- Subject index; Author index; Bibliography; High pressure; *NBS-OSRDB-70-1-V1 (PB191174). SP305-3.*
- Subject index; Author index; Bibliography; High pressure; *NBS-OSRDB-70-1-V2 (PB191175). SP305-3.*
- Subject indexes; Superconductivity; Transport processes; Author indexes; Bibliography; Cryogenics; Liquefaction; Metrology; Properties of fluids; Properties of solids; *17639. SP305-5.*
- Subjective evaluation; Maintainability; Measures of effectiveness; Multidimensional decisions; Reliability; *SP361, Vol. 1*, pp. 63-71. *SP305-4.*
- Sub-lattices; Super-lattices; Crystallography; Lattices; *13697. SP305-5.*
- Sublattices; Superlattices; Crystal aggregates; Crystals; Grain boundaries; Lattices; *13699. SP305-5.*
- Sublimation;  $\text{AlCl}_3$ ;  $\text{AlF}_3$ ; Dimerization correction; Entrainment method; Heat of reaction; Mixed halides; *11027. SP305-2.*
- Sublimation; Sublimators; Analogous to distillation; Analysis-sublimation; Condensation temperatures; Solid substance; *9864. SP305-1.*
- Sublimation; Thermal conduction; Thermal vacuum tests; Volatile constituents; Volatilization; Absorption; Adsorption; "bake out"; Components; Decomposition; Degassing; Environment; Evaporation; Outgassing; Simulation; *SP336*, pp. 473-485. *SP305-3.*
- Sublimation; Transition metals; Mass spectrometry; Positive and negative ions; *J.74A No. 1, 37-43 (1970). SP305-2.*
- Sublimation energies; Tantalum; Electron affinities; Self-surface ionization; Singly charged positive and negative atomic ions; *12747. SP305-4.*
- Sublimation enthalpy; Beryllium difluoride; Beryllium oxide; High temperatures; Mass spectrometry; Reaction enthalpy; *J.72A No. 1, 75-80 (1968). SP305-1.*
- Sublimation pumps; Vacuum pumps; Vapor pressure; Cryopumps; Getters; Ion pumps; Pumping efficiency; *11513. SP305-2.*
- Sublimators; Analogous to distillation; Analysis-sublimation; Condensation temperatures; Solid substance; Sublimation; *9864. SP305-1.*
- Submersible; Closed ecological system; Habitability; Maintainability prediction; Microbiology; Microflora shift; Physiology; Psychology; Space station simulator; *SP336*, pp. 599-621. *SP305-3.*
- Submicrometer; Urban particulates; Air pollution; Composite dust; Electron microanalysis; Electron microscopy; *13429. SP305-5.*
- Submillimeter waves; High resolution molecular spectroscopy; Lasers; Meeting report; Novosibirsk; Pressure-broadened line shapes; Soviet Union; *16010. SP305-8.*
- Submillimeter waves; Superconductivity; Infrared; Josephson effect; Lasers; *11509. SP305-2.*
- Submillimeter waves; Water vapor; High cirrus; Fourier spectroscopy; *11885. SP305-3.*
- Submonolayer films; Surfaces; Surface spectroscopy; Electronic characterization; *13849. SP305-6.*
- Subnanosecond pulses; Acousto-optic modulator; Flashlamp pumped dye laser; Mode-locking; *TN603. SP305-3.*
- Subnanosecond pulses; Damage mechanisms in laser systems; Disc amplifiers; Nd: YAG laser; Self-focusing; *SP372, 100-103. SP305-4.*
- Suboptimization; Subsystem measurement; Variability; Distribution; Low utilization; Overhead; *SP406*, pp. 45-52. *SP305-5.*
- Subpicosecond time difference measurements; Time stability; Atomic clocks; Frequency measurements; Frequency stability; Phase delay; Precision time metrology; *15684. SP305-7.*
- Subsets; American Standard Code for Information Interchange (ASCII); Coded character subsets; Codes; Data communication; Data interchange; Data processing; Federal Information Processing Standards; Graphic character subsets; *FIPS PUB 15. SP305-3.*
- Subsets; American Standard Code for Information Interchange (ASCII); Coded character subsets; Codes; Data communication; data interchange, data processing; Federal Information Processing Standards; Graphic character subsets; Graphic subsets; *FIPS PUB 35. SP305-7.*
- Subsets; American Standard Code for Information Interchange (ASCII); Coded character subsets; Codes; Data communication; data interchange, data processing; Federal Information Processing Standards; Graphic character subsets; Graphic subsets; *FIPS PUB 36. SP305-7.*
- Subshell structure; Angular distribution; Photoabsorption; X rays; *16386. SP305-8.*
- Subsidization; Total cost recovery; User charges; Automated information retrieval; Cost benefit; Public good; Scientific technical information; Semi-public good; *TN864. SP305-7.*
- Subsidized costs; Blood banking; Cost analysis; Economics direct costs; *16070. SP305-8.*
- Subsonic; Supersonic; Transition; Turbulent; Airfoil; Boundary layer; Drag; Heat transfer; Laminar; Lift; Skin friction; *12786. SP305-4.*
- Substituent effects; Amides; Carbon-13 magnetic resonance; Chemical shifts; Cis and trans isomers; Peptides; Protein conformation; *16235. SP305-8.*
- Substituent parameters; Synthesis; Tungsten hexafluoride; Chemical shifts; Fluorine NMR; Organosilanes; Organotin(VI) fluorides;  $\pi$ -Bonding; *12816. SP305-4.*
- Substitute fluid; Volume flow; Accuracy; Calibration; Commodity transfer; Cryogenic; Cryogenic processes; Density; Flowmeters; Mass flow; Mass flowmeters; Performance results; Propellant management; *9428. SP305.*
- Substituted anilines; Substituted phenols; Dissociation constant; *J.71A3-453, 213-218 (1967). SP305.*
- Substituted benzoic acids; Allyl- and propenylbenzoic acids; Change of  $pK$  with dielectric constant; Hammett sigma constants; Ionization constants;  $pK$  values in ethanol-water; Sigma constants in ethanol-water; *J.71A5-468, 379-384 (1967). SP305.*
- Substituted phenols; Dissociation constant; Nitrophenols; *J.71A5-469, 385-389 (1967). SP305.*
- Substituted phenols; Dissociation constant; Methanol-water mixtures; Solvent effects; *J.70A6-427, 553-556 (1967). SP305.*
- Substituted phenols; Dissociation constant; Substituted anilines; *J.71A3-453, 213-218 (1967). SP305.*
- Substitution balance; Volumetric measurement; Water density; Water weighing; Air density; Balance; Balance calibration; Balance equilibrium; Balance sensitivity; Density; Double substitution weighing; Hydrostatic balance; *J.71C3-254, 198 (1967). SP305.*



stitution error; Barretter; Bolometer; Microwave power measurements; *J72C No. 2, 127-237 (1968).* **SP305-1.**

stitution error; Bolometer mount efficiency; Mismatch error; Power measurement; Power meter; *10038.* **SP305-1.**

stitution weighing; Transposition weighing; True mass; Uncertainty; Value; Balance; Buoyancy; Calibration; Standards; *1577.* **SP305-3.**

stitutional impurity; U-centers; Alkali halide crystal; Born-layer potential; Deformation dipole model; Effective force constants; Isotopic impurities; Local mode frequencies; Nearest-neighbor interaction; *9354.* **SP305.**

stoichiometric; Toluene-3,4-dithiol; Tungsten; Molybdenum; Radioisotope dilution; *14411.* **SP305-6.**

stoichiometric; Trace analysis; Zinc spelter; Cadmium; Coulometry; Electrolysis; Radioactive tracers; Radioisotope dilution; *10412.* **SP305-1.**

stoichiometric radioisotope dilution; Trace; Zinc; Cadmium; Coulometry; Extraction; Microanalysis; Solvent; *10664.* **SP305-1.**

stoichiometric radioisotopic dilution analysis; Trace amounts; Cadmium; Dithionite; Silver; *9168.* **SP305.**

stoichiometry; Absorption isotherm; Environmental samples; Fluorine; Isotope dilution; Radionuclides; *SP422, pp. 651-982 (Aug. 1976).* **SP305-8.**

stoichiometry by controlled potential coulometry; Radiochemical separations; Theoretical detection limits for activation analysis; CLSQ program for multicomponent decay; Solid state detectors; Electronic data handling; NBS spectrometer; NBS Linac; *TN404.* **SP305.**

strate; Surface; Thick film; Thin film; Waviness; Camber; Ceramic; Fired; Flatness; Ground; Lapped; Microwave; Polished; Roughness; *SP348, pp. 293-300.* **SP305-4.**

strates; Surface defects; Surface segregation; Thin film adhesion; Thin film circuit imperfections; Aluminum oxide; Auger electron spectroscopy; Crystallographic texture; Ion microprobe; Scanning electron microscopy; *SP348, pp. 271-290.* **SP305-4.**

strates; Surface preparation; Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant; Lacquer; Latex; Multicolor; Organic coatings; Paint; Pigments; Polymers; Properties; *BS57.* **SP305-1.**

strates; Surface properties; Aluminum oxide; Bending; Brittleness; Ceramics; Electronics; Flexural strength; Fractures (materials); Mechanical tests; Modulus of rupture tests; *2861.* **SP305-4.**

strates; Surface roughness; Thin films; Far ultraviolet; Optical polishing; Scattering; *9812.* **SP305-1.**

strates; Tearing; Vibratory apparatus; Adhesion; Cavitation; Coatings; Design charts; Elastomers; Erosion; Hopkinson pressure bar apparatus; Impedances; Mismatching; Stress wave interactions; *SP452, pp. 120-123 (Sept. 1976).* **SP305-1.**

strates; Thin films; Evaporation; Magnetic retention; Masks; Sputtering; *15231.* **SP305-7.**

strates; Ultrasonic machining; Ceramics; Finishing; Grinding; Specimens; *SP348, pp. 113-117.* **SP305-4.**

structure heating; Surface cracks; Ablation; Catastrophic ablation; *SP336, pp. 853-877.* **SP305-3.**

structure search; Ambiguity; Binary matrices; Bond adjacency; Chemical information; Computer; Control vector; Set reduction; Structure search; *12337.* **SP305-3.**

structure searches; Chemical; Computers; Hayward notation; Information retrieval; Linear notation; Structures; *9482.* **SP305.**

sulfides; Chalcogenides; Parkerite; Shandite; *14123.* **SP305-6.**

sumption; Theorem-proving; Unification; Associative processing; First-order predicate calculus; Resolution; *13760.* **SP305-5.**

Subsurface damage; Transmission electron microscopy; Abrasion; Aluminum oxide; Dislocations; Ion-bombardment; Microtwin; Scanning electron microscopy; *SP348, pp. 333-339.* **SP305-4.**

Subsurface structure; Ultrasonic cleaning; Laser damage; Metal mirrors; *SP435, pp. 90-97 (Apr. 1976).* **SP305-8.**

Subsystem; URBS; ABS; Building systems; College buildings; Dormitories; HVAC; Laboratories; Lighting/ceiling; Performance specifications; Procurement process; SCSD; Structure; *SP361, Vol. 1, pp. 303-315.* **SP305-4.**

Subsystem measurement; Variability; Distribution; Low utilization; Overhead; Suboptimization; *SP406, pp. 45-52.* **SP305-7.**

Subsystems; Vibration; Analysis; Deflection; Design; Dynamic; Experimental; Human sensitivity; Loading functions; Specifications; Static; Structural engineering; *BS547.* **SP305-5.**

Sub-triple point; Tubes; Flow; Hydrogen; Nitrogen; Solid plug; Solid-vapor mixture; *11008.* **SP305-2.**

Subway; Calculable capacitor; Color; Computer simulation; Electricity; Energy-environment; Fire safety; Measurement system; Nuclear power plant; Productivity; *DIM/NBS 59, No. 12, 266-291 (1975).* **SP305-7.**

Sucrose; Animal glue; Glucose; Glycerol; Mannitol; Melamine resin; Paper; *9455.* **SP305.**

Sucrose; Sulfonic Ka measurements; Urea; Uric acid; Acetylation; Analysis of corn syrups; Carbohydrate structure and characterization; Cholesterol; Clinical chemistry; Creatinine; Di-O-isopropylidene-D-erythro-pentulofuranose; *TN457.* **SP305-1.**

Sucrose solutions; Hydration; Mixed solutions; Nonelectrolytes; Solvation; *9512.* **SP305.**

Suction of masonry unit; Winter masonry; Fresh mortar; Interaction between masonry mortars and units; Masonry mortar; Mortar evaluation; Mortar standard; *SP361, Vol. 1, pp. 687-692.* **SP305-4.**

Sudden approximation; Close coupling calculations; Cross sections; Differential cross sections; Elastic scattering; Electron scattering; Momentum transfer; Nitrogen molecules; Rotational excitation; Scattering theory; *15951.* **SP305-8.**

Sudden approximation; Differential cross sections; Elastic scattering; Electron scattering; Hydrogen molecules; Momentum transfer; Rotational excitation; Scattering theory; *15761.* **SP305-8.**

$\sigma(\theta, E)$ ;  $\theta_{lab} = 20$  to  $160^\circ$ ;  $E = 0.3$ - $3.0$  MeV; Nuclear reaction  $^{238}\text{U}(n, n)$  and  $^{238}\text{U}(n, n')$ ; *SP425, pp. 862-865.* **SP305-7.**

Sugars; 3-O- $\alpha$ -D-glucopyranosyl-D-arabinopyranose; Anomeric sugars; Calcium maltobionate; Maltose- $1^{14}\text{C}$ ; *J72A No. 6, 769-771 (1968).* **SP305-1.**

Sugars, enolization and rearrangement of; Tritium exchange, measurement of enolization by; 2-deoxy sugars, enolization of; Acyclic intermediates in mutarotation of sugars; Aldoses, enolization of; Alkaline rearrangement of sugars; Enediols of sugars; *11338.* **SP305-2.**

Sugars in solution; Acid-base catalysis in  $\text{D}_2\text{O}$ ; Deuterium isotope effects; D-fructose; D-glucose; Isotope effects; Mechanism of mutarotation; Mutarotation; Pyranose-furanose interconversions; *J71A2-445, 137-148 (1967).* **SP305.**

Sugars in solution; Conformational analysis; Carbon-14- and tritium-labeled carbohydrates; Large-scale paper chromatography; Phenylhydrazono-phenylazo tautomerism; Cyclopentanols and related substances; Unsaturated alditols; Infrared spectra of acylamide derivatives; *TN405.* **SP305.**

Sugars, mutarotation of; Thermodynamic data for mutarotations; Acid and base catalysts; Catalysis of mutarotation; Deuterium oxide mutarotation of; Isotope effects in mutarotations; Mechanism of mutarotation reaction; Mutarotates; Mutarotation of sugars; *14456.* **SP305-6.**

Sugars, tritium-labeled; Tritium-labeled compounds, D-mannose-2- $t$  and D-glucose-2- $t$ ; D-Gluconic-2- $t$  acid, synthesis of;

- D-Glucose-2,1, synthesis and radioanalysis of; *J.73A No. 1, 75-77 (1969)*. SP305-1.
- Sulfate; Sulfur dioxide; Sulfur trioxide; Sulfur trioxide condensation; Automobile exhaust; Catalytic oxidation converter; Dilution tunnel; Isopropanol; Particulate filtration; *SP422*, pp. 389-400 (Aug. 1976). SP305-8.
- Sulfate expansion; Trace elements; Alkalies; Concrete; Durability; Heat of hydration; Portland cements; Shrinkage; Statistical evaluation; Strength; *11863*. SP305-3.
- Sulfate-reducing bacteria; Thiobacilli; Underground pipeline corrosion; Anaerobic corrosion; Cathodic depolarization; Desulfotribio; Microbial corrosion; *11000*. SP305-2.
- Sulfate-reducing bacteria; Vivianite; Anaerobic corrosion; Cathodic depolarization theory; Charles Thom Award; *Desulfotribio desulfuricans*; Hollow whiskers; Mechanism; Microbial corrosion; Mild steel; Oxidizing agent; Schreibersite; *15233*. SP305-7.
- Sulfates; Thermodynamic data; X-ray diffraction data; Chromates; Crystal structure; Crystal structure transformations; Perchlorates; Phase transformations; Phosphates; *NSRDS-NBS56*. SP305-7.
- Sulfates; Thermodynamic functions; Decomposition pressures; *NSRDS-NBS7*. SP305.
- Sulfates; Tutton salts; Chromates; Langbeinites; Lattice constants; *1.75A No. 5, 435-439 (1971)*. SP305-3.
- Sulfides; Synthesis; Bismuth; Mercury; *13518*. SP305-5.
- Sulfides; Tellurides; Transition-metal chalcogenides; Trigonal-prismatic coordination; Dichalcogenides; Intercalation compounds; Layer structures; Modulated structures; Occupation waves; Selenides; Semiconductor-to-metal transitions; *SP364*, pp. 625-635. SP305-4.
- Sulfides; Titanium disulfide; Titanium-vanadium disulfides; Vanadium disulfide; Disulfides; Electrical conductivity; Magnetic properties; *SP364*, pp. 663-671. SP305-4.
- Sulfides; Transition metal; Coordination polyhedra; Crystal structure; Intermetallic; Phosphides; Refractory; *SP364*, pp. 651-662. SP305-4.
- Sulfides; Tungsten; X-ray crystallography; Clusters; Metal-metal bonding; Metal sulfides; *16071*. SP305-8.
- Sulfides; Van der Waals coefficients; Alkaline earth chalcogenides; Electronic polarizabilities; Lorentz factor; Oxides; *11675*. SP305-2.
- Sulfides; Vinyl ethers; Fluorinated styrenes; Fluoroaryl polymers; Para and meta linked polymers; Pendant pentafluorophenyl ring; Polyperfluorophenylene ethers; Polyperfluorophenylenes; *9999*. SP305-1.
- Sulfonated polystyrene-divinylbenzene; Cryodegradation; Freeze-thawing; Polyelectrolyte networks; *11243*. SP305-2.
- Sulfonation; Cation exchangers; Ion exchangers; Oleum; *11957*. SP305-3.
- Sulfonation; Cation exchangers; Ion exchangers; Oleum; *11537*. SP305-2.
- Sulfonation; Sulfuric acid; Copolymer; Divinylbenzene; Homogeneity; Ion-exchange; Kinetics; Nitrobenzene; Styrene; *10639*. SP305-1.
- Sulfone; Alkyl sulfone; Crystal structures; Dimethyl sulfone diimine; Hydrogen bonds; Neutron diffraction; *15383*. SP305-7.
- Sulfonic esters; 2,3,4,5-dianhydro-D-iditol; Epoxide formation; D-mannitol; Methoxide; *11158*. SP305-2.
- Sulfonic Ka measurements; Urea; Uric acid; Acetylation; Analysis of corn syrups; Carbohydrate structure and characterization; Cholesterol; Clinical chemistry; Creatinine; Di-O-isopropylidene-D-erythro-pentulofuranose; *TN457*. SP305-1.
- Sulfonipines; Thin films; Flash evaporation; High pressure phases; *SP364*, pp. 695-702. SP305-4.
- Sulfur; Body scatterer; Cesium diode; Diffuse reflector; Powdered iodide; *9736*. SP305-1.
- Sulfur; Boron; Carbon; Light elements; Metals; Nitrogen; Oxygen; Phosphorous; Silicon; *TN524*. SP305-2.
- Sulfur; Cellulosic fibers; Combustion; Cotton fibers; Flame retardant treatments; Phosphorous acids; Pyrolysis; Rayon; *NBS-GCR-73-4*. SP305-8.
- Sulfur; Diamond-anvil cell; High pressure; Melting curve; Polymorphism; *14242*. SP305-6.
- Sulfur; Sulfur hydrides; Sulfur oxides; Bibliography; Carbon disulfides; Carbon sulfides; Chemical kinetics; Gas phase; Hydrogen; Nitrogen; Nitrogen oxides; Oxygen; *SP305-4*.
- Sulfur; Tetramethylthiuram disulfide; Vulcanization; Zinc dimethylthiocarbamate; Zinc dimethylthiocarbamate; Accelerators; Far infrared; Natural rubber; *J.71A1-432, 19-23 (1968)*. SP305.
- Sulfur; Transition probabilities; Allowed and forbidden transitions; Aluminum; Argon; Calcium; Chlorine; Magnesium; Oscillator strengths; Phosphorus; Potassium; Silicon; Sodium; *NSRDS-NBS22*. SP305-1.
- Sulfur; Transition probability; Arc; Atomic spectroscopy; Plasma; Stark broadening; *10209*. SP305-1.
- Sulfur; Triple pass on-axis; Flame; Hydrogen; Long-pulse burner; Multichannel spectrometer; Non-metals; Overexposure; Phosphorus; Spectrometry; *12658*. SP305-4.
- Sulfur; Vacuum-ultraviolet; Chlorine; Energy levels; Group configurations; Slater-parameters; *11013*. SP305-2.
- Sulfur analysis; Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; Vacuum spectrometry; Computing; Digital readout; Electron probe; Gold analysis; Isotope dilution method; Laser probe; Liquid Q-switch; *TN422*. SP305-1.
- Sulfur atoms; Atomic g factors; Atomic hydrogen; Atomic resonances; Electron paramagnetic resonance; *9605*. SP305-1.
- Sulfur atoms; Chemistry; Ethylene; Flash-photolysis; Kinetic; Resonance-fluorescence; *13901*. SP305-6.
- Sulfur chemistry; Tables; Activation energies; Evaluation; Gas reactions; Radical reactions; Rate constants; Review; *Phys. Chem. Ref. Data 2, No. 1, 25-84 (1973)*. SP305-6.
- Sulfur coatings; Coatings; Infrared integrating sphere coating; Integrating spheres; Sphere; *9157*. SP305.
- Sulfur compound; Thianthrene; Combustion; Enthalpy; Formation; Heat; Secondary standard; *J.79A No. 4, 561-565 (1975)*. SP305-7.
- Sulfur difluoride; Molecular structure; Dipole moment; Electrical discharge; Microwave spectroscopy; Rotational spectrum; *14355*. SP305-6.
- Sulfur dioxide; Acetaldehyde; Acrolein; Formaldehyde; Chromatography; Hydrogen chloride; Hydrogen cyanide; Pyrolysis; Reactive gas generator; *NBSIR 76-100*. SP305-8.
- Sulfur dioxide; Air pollution; Carbon monoxide; Hydrocarbons; Nitrogen oxide; Ozone; Particulates; Standard reference materials; *TN711*. SP305-4.
- Sulfur dioxide; Air pollution; Carbon monoxide; Gas analysis standards; Nitric oxide; Nitrogen dioxide; *15972*. SP305-8.
- Sulfur dioxide; Air pollution; Chemical analysis; Paraoxonil method; Quality control; Reference materials; *NBSIR 76-662*. SP305-7.
- Sulfur dioxide; Air pollution; Instrument; Measurement; Oxide of nitrogen; *14939*. SP305-7.
- Sulfur dioxide; Air pollution; Carbon monoxide; Gas analysis standards; Nitric oxide; Nitrogen dioxide; *15447*. SP305-7.
- Sulfur dioxide; Air pollution; Carbon monoxide; Gas analysis; Permeation tubes; Propane; *15552*. SP305-7.
- Sulfur dioxide; Air pollution analysis; Carbon monoxide; Field research; Microchemical analysis; Nitrogen dioxide; Ozonolysis; Particulate analysis; *TN585*. SP305-4.
- Sulfur dioxide; Alkali metal reactions; Charge transfer; Electron capture; Infrared spectrum; Matrix isolation; Molecular orbitals;  $SO_3^-$  anion; *12336*. SP305-3.

Sulfur dioxide; Asphalt flux; Carbonyl absorbance; Coating-grade asphalt; Infrared analysis; Nitrogen oxides; Oxidation; Softening point; 16468. SP305-1.

Sulfur dioxide; Carbon monoxide; Hydrocarbons; Measurement; Nitrogen dioxide; Particulate matter; Photochemical oxidants; Standards; 16121. SP305-8.

Sulfur dioxide; Density; Fluorocarbon copolymer; Morphology; Permeation; Permeation tubes; Polymer structure; 15509. SP305-7.

Sulfur dioxide; Emission gas; Exhaust; Fluorescence; Nitric oxide; Quenching; 16444. SP305-8.

Sulfur dioxide; Interstellar; Microwave spectra; Molecules; Orion; Radio astronomy; 16434. SP305-8.

Sulfur dioxide; Sulfur trioxide; Sulfur trioxide condensation; Automobile exhaust; Catalytic oxidation converter; Dilution tunnel; Isopropanol; Particulate filtration; Sulfate; SP422, pp. 389-400 (Aug. 1976). SP305-8.

Sulfur dioxide; Thermoelectric heat pump; Water vapor condensation; Accelerated corrosion; Atmospheric corrosion; Corrosion mechanisms; Humidity cabinet; Laboratory corrosion apparatus; Photomicrography; Reflectometry; 9990. SP305-1.

Sulfur dioxide; Ultraviolet absorption; Air pollution; Flash photolysis; 14139. SP305-6.

Sulfur dioxide concentration; Air pollution; Critical flow; Laminar flow; Nozzle; Porous plug; NBSIR 73-414. SP305-8.

Sulfur dioxide concentration; Carbon dioxide concentration; Air pollution; Critical flow; Laminar flow; Nozzle; Porous plug; NBSIR 74-612. SP305-7.

Sulfur hexafluoride; Clausius-Mossotti equation; Critical phenomena; Dielectric constant; 16542. SP305-8.

Sulfur hexafluoride; Ultraviolet absorption cross section; Forward inelastic electron scattering; Oscillator strength; 10074. SP305-1.

Sulfur hexafluoride ( $\text{SF}_6$ ); Veterans Administration Hospital; Experiments; Full-scale; Gas tracer; Interstitial space; Penetration through ceiling; Smoke movement; Smoke simulation; NBSIR 75-903. SP305-7.

Sulfur hexafluoride tracer; Air exchange measurement; Air infiltration measurement; Building ventilation; 15113. SP305-7.

Sulfur hexafluoride tracer; Air infiltration instrumentation; Air infiltration measurement; Building ventilation rates; TN898. SP305-8.

Sulfur hexafluoride tracer measurement; Air infiltration measurement; Air leakage measurement; Mobile home tightness; NBSIR 76-1063. SP305-8.

Sulfur hydrides; Sulfur oxides; Bibliography; Carbon oxy-sulfides; Carbon sulfides; Chemical kinetics; Gas phase; Hydrogen; Nitrogen; Nitrogen oxides; Oxygen; Sulfur; SP362. SP305-4.

Sulfur identification; Bubble content analysis; Gas analysis; Inclusions in glass; Raman spectroscopy of sulfur; 15703. SP305-7.

Sulfur K shell binding energy; X-ray spectra;  $\text{H}_2\text{S}$ ; Sulfur K $\beta$  emission and K-absorption spectra; 14993. SP305-7.

Sulfur K $\beta$  emission and K-absorption spectra; Sulfur K shell binding energy; X-ray spectra;  $\text{H}_2\text{S}$ ; 14993. SP305-7.

Sulfur monoxide; Born-Oppenheimer approximation; Isotopic effects; Microwave spectra; Molecular parameters; Rotational transitions; 14497. SP305-6.

Sulfur monoxide; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; Spectra; J. Phys. Chem. Ref. Data 3, No. 1, 259-268 (1974). SP305-6.

Sulfur monoxide; Zeeman effect; Dense molecular clouds; Magnetic field; Orion A; Radio astronomy; 14499. SP305-6.

Sulfur monoxide dimer; Rotational spectrum; Centrifugal distortion; Dipole moment; Microwave spectrum; Molecular structure; 14434. SP305-6.

Sulfur nitride; Tetracyanoquinodimethane; Tetrasulfur tetranitride; Tetrathiafulvalene; Vaporization; Chemical ionization mass spectrometry; Mass spectrometry; 16422. SP305-8.

Sulfur oxides; Bibliography; Carbon oxy-sulfides; Carbon sulfides; Chemical kinetics; Gas phase; Hydrogen; Nitrogen; Nitrogen oxides; Oxygen; Sulfur; Sulfur hydrides; SP362. SP305-4.

Sulfur trioxide; Air pollution; Bond distances; Infrared spectroscopy; Molecular structure; Spectra; 13320. SP305-5.

Sulfur trioxide; Air pollution; Infrared spectra; Molecular structure; Raman spectra; Spectra; 13270. SP305-5.

Sulfur trioxide; Sulfur trioxide condensation; Automobile exhaust; Catalytic oxidation converter; Dilution tunnel; Isopropanol; Particulate filtration; Sulfate; Sulfur dioxide; SP422, pp. 389-400 (Aug. 1976). SP305-8.

Sulfur trioxide condensation; Automobile exhaust; Catalytic oxidation converter; Dilution tunnel; Isopropanol; Particulate filtration; Sulfate; Sulfur dioxide; Sulfur trioxide; SP422, pp. 389-400 (Aug. 1976). SP305-8.

Sulfurhexafluoride; Threshold energy; Electronically excited state; Mass spectrometer; Photoionization; Rydberg levels; 9683. SP305-1.

Sulfuric acid; Chlorosulfonic; Fuming; Hexapotassium; Hexasulfate; Salt; 11580. SP305-2.

Sulfuric acid; Copolymer; Divinylbenzene; Homogeneity; Ion-exchange; Kinetics; Nitrobenzene; Styrene; Sulfonation; 10639. SP305-1.

Sulfuric acid; Thermogravimetric analysis; Alum; Aluminum; Apparent activation energy; Calcium; Cellulose; Crosslinking; Differential thermal analysis; Ion exchange; Organic acid; Oxycellulose; Stability; 12218. SP305-3.

Sulfuric acid; Titanium; Corrosion; Passivation; Single crystals; 14747. SP305-7.

Sulfuric acid; Titanium; Tubing; Corrosion; NaCl solution; Passivation; Sheet; 14516. SP305-6.

Sulfur-impregnated concrete; Concrete; Concrete-polymer systems; Polymers; Polymer-impregnated concrete; 16349. SP305-8.

Sulphur hexafluoride; Tellurium hexafluoride; Vibration-rotation; Band contours; Force fields; Gas phase; Infrared; 9528. SP305-1.

Sum; Approximation; Error; Formula; Imprecision; Law of error; Products; Propagation of error; Random; Ratio; Systematic; J70C4-237, 263-273 (1966). SP305.

Sum coincidence counting; Yttrium-88; Aluminum-26; Bismuth-207; Cobalt-60; Niobium-94; Radioactivity standardization; Sodium-22; 14299. SP305-6.

Sum rule; Correlation; Electron scattering; Form factor; Helium; Hydrogen; 11916. SP305-3.

Sum rule; Correlations; Electric dipole; Isospin; Photoneuclear; Radii; 11415. SP305-2.

Sum rule; Density of states; Disordered alloys; One-electron propagator; Perturbation expansion; SP323, pp. 453-463. SP305-4.

Sum rule; Density of states; Disordered alloys; One-electron propagator; Perturbation expansion; J74A No. 2, 281-291 (1970). SP305-2.

Sum rule; Electron scattering; Momentum transfer; Pair correlation; Shell model; Spurious; 12043. SP305-3.

Sum rule; Giant resonance; Photon scattering; Polarized photons; 10302. SP305-1.

Sum rule; Tritium; Helium-3; Isospin; Photoneuclear; Radii; 11416. SP305-2.

Sum rules; Characteristic electron energy loss; Far ultraviolet; Germanium; Kronig-Kramers dispersion relations; Optical properties; 9345. SP305.

Sum rules; Charge exchange; Dispersion relations; Duality; Elementary particles; FESR; High energy scattering; Pion-nucleon scattering; Regge parameters; 11703. SP305-2.

- Sun rules; Compton scattering; Dispersion relations; Photon; Proton; Scattering; 14114. SP305-6.
- Sun rules; Dispersion relations; Pion-nucleon amplitudes; Pion-nucleon cross section; Pion-nucleon scattering; Pion-nucleon scattering; 15296. SP305-7.
- Sun rules; Effective interaction; Electron scattering; Nucleon-nucleon correlations; Photoabsorption; Photon scattering; 13754. SP305-5.
- Sun rules; Giant resonance; Isoscalar; Isospin; Isosensor; Isovector; Photoneuclear; 12700. SP305-4.
- Sun rules; Heisenberg magnets; Longitudinal diffusivity; Longitudinal spectral weight function; Moments; Neutron scattering;  $\text{RbMnF}_3$ ; 10834. SP305-1.
- Sun rules; Nuclear hydrodynamics; Particle-hole calculations; Photon scattering; Photoneuclear; *Monogr. 118*. SP305-2.
- Sun rules; Super-resonance; U-spin equalities; Octet symmetry breaking; Q plots; Reaction cross section; Strong interactions; 9938. SP305-1.
- Sun rules; Transition charge; Charge density; Coulomb energy; Coulomb excitation; Electron scattering; Form factors; 14851. SP305-7.
- Sun rules; Vacuum ultraviolet; Electron energy losses; Germanium;  $M_{11}, \nu$  edge; Optical constants; Oscillator; Strengths; 11367. SP305-2.
- Summary of deduced  $E_0$ ,  $g_{\pi}$ ,  $\Gamma_{\pi}$ ,  $S_0$ ,  $(D_0)$ ; Various statistical tests; Measured  $\sigma_i(E)$ ;  $(n,n)$ ,  $(n,\gamma)$ ,  $E=1$  eV-few keV; Nuclear reactions; SP425, pp. 780-783. SP305-7.
- Sun-rules; Vector current; Axial-vector current; Chiral;  $G_A$ ;  $G^*$ ; Representation-mixing; 9353. SP305.
- Sums of independent random variables; Tables; Truncation; Accuracy; Approximations; Asymptotic expansion; Cauchy distribution; Characteristic function; Closed forms; Contour; Convergence; Curves; J.77B Nos. 3 and 4, 143-198 (1973). SP305-5.
- Sun; Buildings; Computer codes; Computer networks; Computers; Copyrights; Energy; Epoxies; Hazard; Metric conversion; Piezoelectric accelerometers; DIM/NBS 59, No. 4, 73-96 (1975). SP305-7.
- Sun; Weathering; Xenon arc; Carbon arc; Degradation; Irradiance; Photodegradation; Plastics; Polymers; Radiation; Radiometry; 10472. SP305-1.
- Sun, corona; Sun, flares; Sun, prominences; Sun, spectra; Ultraviolet, spectra; Atomic processes; 15987. SP305-8.
- Sun, flares; Sun, prominences; Sun, spectra; Ultraviolet, spectra; Atomic processes; Sun, corona; 15987. SP305-8.
- Sun, prominences; Sun, spectra; Ultraviolet, spectra; Atomic processes; Sun, corona; Sun, flares; 15987. SP305-8.
- Sun, silicon in the; Silicon spectra in the sun's atmosphere; Spectra of silicon, atomic and ionic in the sun; 12010. SP305-3.
- Sun, spectra; Ultraviolet, spectra; Atomic processes; Sun, corona; Sun, flares; Sun, prominences; 15987. SP305-8.
- Sun-faculae; Sun-photospheric models; Van der Waals line broadening; 14792. SP305-7.
- Sunlight; Ion mobility;  $\text{O}_3^-$ ; Photodetachment; Photodetachment rate measurement; 12268. SP305-3.
- Sunlight; Ultraviolet radiation; Weatherability; Antenna-support materials; Environmental degradation; Guys, nonmetallic; Marine atmospheres; Plastics, fiber-reinforced; Pultrusions; Stress-rupture testing; NBSIR 76-1069. SP305-8.
- Sun-molecules; Molecules; Spectroscopy; 9953. SP305-1.
- Sun-photospheric models; Van der Waals line broadening; Sun-faculae; 14792. SP305-7.
- Sunshine; View; Windowless; Windows; Daylight; Fenestration; Psychological; Solar glass; Spaciousness; BS570. SP305-7.
- Sunspot cycle; Time signals; WWV; WWVH; Clocks; H. F. Broadcasts; 12594. SP305-4.
- Sunspot cycle trends; Ionospheric prediction; Linear regression; Space and time correlations; 10956. SP305-2.
- Sun-spot spectra; Atomic spectra; Molecular spectra; R earth spectra; Reference data programs; Solar spectra; Spectra of late-type stars; 9950. SP305-1.
- Sunspots; Wilson-Bappu effect; Ca H and K lines; Non-line formation; Plages; Radiative transport; Solar chromosphere; Solar spectrum; 12106. SP305-3.
- Superchromatism; Achromatism; 10090. SP305-1.
- Superalloy; Aluminum; Elastic constants; Elastic modulus; Nickel; Single crystals; 11290. SP305-2.
- Superalloys; Titanium alloys; Tool steels; Ultrahigh strength steels; Alloy steels; Austempered steels; Cold-drawn steels; Dispersion hardened alloys; Fiber and whisker reinforced materials; Maraging steels; Refractory alloys; Stainless steels; 12594. SP305-4.
- Superconducting; A.c. power; Cryoresistive; Energy transmission economics; Helium; Hydrogen energy; Liquid hydrogen; Liquid nitrogen; Power transmission cables; Safety; Superconducting; 16629. SP305-8.
- Superconducting; Aluminum; Electron scattering; Magnetoresistivity; Resistivity; 12532. SP305-4.
- Superconducting; Superconductivity; Transition temperature; Al<sub>5</sub> compounds; Atomic ordering; Critical magnetic field; 14249. SP305-6.
- Superconducting; Synthesis, chemical; Titration; Wind velocity; Work positioner; Conductometry; Decoding materials; Fluorolefins; Integrator; Magnetic sensing probe; Magnetic tape; Microbridge; Numbering machine; Perfluorostyrene; Shaft position encoder; TN744. SP305-4.
- Superconducting; Telecommunications; Transmission lines; Cables; Coaxial; Cryogenic; Miniature; Pulse delay; 1333. SP305-5.
- Superconducting; Transition temperature;  $(\text{Ba}_2\text{Sr}_{1-x})\text{Ti}(\text{Ca}_2\text{Sr}_{1-x})\text{TiO}_3$ ; Critical fields; Magnetic moment; Penetration depth; Semiconductor systems;  $\text{SrTiO}_3$ ; 10817. SP305-1.
- Superconducting; Transition temperature; Annealing temperature; Atoms; Stoichiometry; 15327. SP305-7.
- Superconducting cables; Cryogenics; Helium pump; Power transmission; Refrigeration; 15455. SP305-7.
- Superconducting coil; Thermal conductivity; Composites; Cryogenics; 15031. SP305-7.
- Superconducting coil composite; Superconducting wire; Thermal properties; Fiberglass cloth; Mechanical properties; Stress analysis; NBSIR 76-837. SP305-8.
- Superconducting dc transformer; Type II superconducting film; Vortex coupling; Dc transformer; Granular aluminum film; Magnetic coupling; 15361. SP305-7.
- Superconducting device; Geomagnetism; Magnetometer; SQUID; 15035. SP305-7.
- Superconducting device; Thin films; Tunnel junction; Josephson effect; Niobium; 11407. SP305-2.
- Superconducting devices; Cardiology; Gradiometry; Instrumentation; Josephson effect; Magnetocardiography; Magnetometry; 12564. SP305-4.
- Superconducting devices; Electron tunneling; Electronics; Low temperature; 11506. SP305-2.
- Superconducting devices; Electronics; Low temperature; 1100. SP305-2.
- Superconducting devices; Instrumentation; Josephson effect; Magnetometry; 12565. SP305-4.
- Superconducting devices; Josephson effect; Mechanical analysis; 12625. SP305-4.
- Superconducting devices; Josephson effect; Magnetometry; 11936. SP305-3.
- Superconducting devices; Magnetometers; Nuclear magnetic resonance; 11348. SP305-2.
- Superconducting devices; Superconducting magnets; Superconductivity; Electrical machinery; Land transportation; Power transmission; Propulsion systems; 14175. SP305-6.



conducting devices; Superconductivity; Tunneling; Electronic devices; High speed devices; Josephson effect; 16485. SP305-8.

conducting electrical equipment and instrumentation; Gasification; Cryogenics; Energy crisis; Hydrogen economy; LNG; 15654. SP305-7.

conducting electronics; Superconducting magnets; Superconducting materials; Superconducting phenomena; Superconducting power transmission; Superconductivity; Cryogenic refrigeration; 10841. SP305-1.

conducting energy gap; Tunnel junction; GeTe; Semiconductor; 9409. SP305.

conducting machinery; Thermal conductivity; Composites; Nature; Liquid helium; Mechanical properties; Structural materials; *NBSIR 74-359. SP305-6.*

conducting machinery; Thermal conductivity; Composites; Elastic properties; Fracture; Liquid helium; Mechanical properties; Structural materials; *NBSIR 74-393. SP305-7.*

conducting machinery; Thermal conductivity; Composites; Elastic properties; Fracture; Liquid helium; Mechanical properties; Structural materials; *NBSIR 75-810. SP305-7.*

conducting machinery; Thermal conductivity; Composites; Copper alloys; Cryogenic temperatures; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Mechanical properties; Nickel alloys; *NBSIR 75-828. SP305-*

*conducting machinery; Thermal conductivity; Aluminum alloys; Composites; Cryogenic temperatures; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Mechanical properties; Nickel alloys; NBSIR 76-839. SP305-*

*conducting machinery; Thermal conductivity; Titanium alloys; Aluminum alloys; Composites; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Cryogenic temperatures; Maraging steels; Mechanical properties; Nickel alloys; Phenolformaldehyde; NBSIR 76-848. SP305-8.*

conducting magnets; Critical currents; Magnets; Magnetron; Nb<sub>3</sub>Sn; Nb<sub>3</sub>Sn magnets; Nb<sub>3</sub>Sn multifilamentary wires; Rain; Stress; 16474. SP305-8.

conducting magnets; Superconducting materials; Superconducting phenomena; Superconducting power transmission; Superconductivity; Cryogenic refrigeration; Superconducting electronics; 10841. SP305-1.

conducting magnets; Superconductivity; Electrical machinery; Land transportation; Power transmission; Propulsion systems; Superconducting devices; 14175. SP305-6.

conducting magnets; Suspension; Transportation; Urban transportation; Fatigue life; Magnetic properties; Materials; Refrigeration; 13954. SP305-6.

conducting magnets; Transportation; Levitation; Magnetic suspension; Materials fatigue data; Refrigeration; *TN635. SP305-5.*

conducting magnets; Transportation; Levitation; Magnetic suspension; Materials fatigue data; Refrigeration; 15182. SP305-7.

conducting materials; Superconducting phenomena; Superconducting power transmission; Superconductivity; Cryogenic refrigeration; Superconducting electronics; Superconducting magnets; 10841. SP305-1.

conducting oscillator; Cavity stabilization; Frequency multiplication; Tunnel diode oscillator; Parametric oscillator; 5676. SP305-7.

conducting phenomena; Superconducting power transmission; Superconductivity; Cryogenic refrigeration; Superconducting electronics; Superconducting magnets; Superconducting materials; Superconducting phenomena; 10841. SP305-1.

conducting power transmission; Superconductivity; Cryogenic refrigeration; Superconducting electronics; Superconducting magnets; Superconducting materials; Superconducting phenomena; 10841. SP305-1.

Superconducting semiconductor; Superconductivity; Tunneling; Density of states; Low density superconductor; Semiconductor; 11357. SP305-2.

Superconducting semiconductors; Solid state; Strontium titanate; Semiconductors; 11582. SP305-2.

Superconducting shield; Superconductivity; Cryogenic resistors; Current comparators; Low temperature; Shielding; SQUID; 15597. SP305-7.

Superconducting solenoid; <sup>3</sup>He cryostat; <sup>3</sup>He refrigerator; Nuclear orientation; *TN562. SP305-3.*

Superconducting solenoids; Carbohydrates; Fourier transforms; Instrumentation; Iterative analysis of spectra; Non-equivalence; Proton magnetic resonance spectroscopy; 13183. SP305-5.

Superconducting SrTiO<sub>3</sub>; Critical fields; Heat capacity; Magnetization curves; Semiconducting SrTiO<sub>3</sub>; 9269. SP305.

Superconducting switch; Tunnel junction; Voltage standard; Cryogenic resistor; Current comparator; Josephson device; Microstripline; Microwave coupling; SQUID; 15596. SP305-7.

Superconducting temperature calibration; Thermometric fixed points; Antiferromagnetism; Ferroelectricity; Solid-state transitions; 15533. SP305-7.

Superconducting transition temperatures; Tantalum-tungsten (Ta-W); Ti-Mo; Titanium-molybdenum (Ti-Mo) alloy; Tungsten (W); W-Re; Alloys; Bcc transition metal alloys; Charging effect; Electronic density of states; *SP323, pp. 587-596. SP305-4.*

Superconducting transition temperatures of lead and indium; Acoustical properties; Fixed points; Lead and indium transition temperatures; Low temperature fixed points; Low temperature thermometry; 15697. SP305-7.

Superconducting transmission line; Time domain deconvolution; Cable; Step response; 12397. SP305-4.

Superconducting transmission lines; Superconductors; Brayton cycle; Refrigeration; *NBSIR 74-375. SP305-6.*

Superconducting transmission lines; Brayton cycle; Cryogenic refrigeration; Refrigeration; 16633. SP305-8.

Superconducting tunnel junctions; Voltage standard; Ac Josephson effect; Low-temperature voltage divider; 16251. SP305-8.

Superconducting wire; Thermal properties; Fiberglass cloth; Mechanical properties; Stress analysis; Superconducting coil composite; *NBSIR 76-837. SP305-8.*

Superconducting-normal transition; Superconductor; Surface energy type I superconductors; Cadmium; Condensation energy; Demagnetization coefficient; Fluctuations; Inhomogeneous superconductor; Intermediate state; 16450. SP305-8.

Superconduction; Thin film; Tin; Vortex model; Electron tunneling; Ginzburg-Landau theory; Magnetic field; 9640. SP305-1.

Superconductive; Transmission; 11408. SP305-2.

Superconductive alloys; Superconductive compounds; Superconductivity; High transition temperature; Pressure effects; Proximity effect; 13544. SP305-5.

Superconductive coaxial line; Frequency response; Gorter-Casimir two fluid model; Step response; 11054. SP305-2.

Superconductive compounds; Superconductivity; High transition temperature; Pressure effects; Proximity effect; Superconductive alloys; 13544. SP305-5.

Superconductive devices; Superconductive transition temperature; Superconductivity; Temperature scale; Fixed points; OSRM; 13591. SP305-5.

Superconductive fixed points; Superconductivity; Thermometry; Critical magnetic field; Heat capacity; Josephson junctions; Noise thermometry; 13540. SP305-5.

Superconductive fixed-point device; Electrical power; Insulation of buildings; Inventor; Kitchen range standards; Shirley

- Highway bus project; *TNB 57*, No. 4, 77-100 (1973). **SP305-5.**
- Superconductive lines; Time and frequency response; Two-fluid model; BCS theory; *11374*. **SP305-2.**
- Superconductive materials; Superconductivity; Bibliography; Composition; Critical fields; Critical temperature; Crystallographic data; Data compilation; Low temperature; *TN825*. **SP305-6.**
- Superconductive materials; Superconductivity; Bibliography; Composition; Critical fields; Critical temperature; Crystallographic data; Low temperature; *JPCRD 5*, No. 3, 581-822 (1976). **SP305-8.**
- Superconductive transition temperature; Superconductivity; Temperature scale; Fixed points; OSRM; Superconductive devices; *13591*. **SP305-5.**
- Superconductive transition temperature; Superconductivity; Thermometric fixed points; Zinc; Aluminum; Cadmium; Cryogenics; Indium; Lead; Magnetic susceptibility; *SP260-44*. **SP305-4.**
- Superconductive transition temperatures; Uniaxial stresses; Anisotropic uniaxial stress effect; Hydrostatic pressure; Reduced strontium titanate; Single crystal; Stresses; *10413*. **SP305-1.**
- Superconductive transition temperatures; Superconductivity; Temperature; Thermometric fixed points; *15052*. **SP305-7.**
- Superconductive transition temperature; Superconductive transition width; Thermometric fixed point; OSRM; Pure cadmium; *15342*. **SP305-7.**
- Superconductive transition temperatures; Temperature; Copper NMR thermometer;  $\gamma$ -ray thermometer; Noise thermometer; *15527*. **SP305-7.**
- Superconductive transition width; Thermometric fixed point; OSRM; Pure cadmium; Superconductive transition temperature; *15342*. **SP305-7.**
- Superconductive; Alloys; Density of states; Low temperature specific heat; Magnetic specific heat; Many-body effects; *SP323*, pp. 557-562. **SP305-4.**
- Superconductive; Alloys; Density of states; Low temperature specific heat; Magnetic specific heat; Many-body effects; *J74A No. 3*, 449-454 (1970). **SP305-2.**
- Superconductive; BaSrTiO<sub>3</sub>; CaSrTiO<sub>3</sub>; Ceramics; Magnetization; Mixed titanates; Semiconductors; SrTiO<sub>3</sub>; *10235*. **SP305-1.**
- Superconductivity; Beryllium; Co<sup>60</sup>  $\gamma$ -ray anisotropy thermometer; Josephson junction; Low temperature thermometry; Noise thermometry; *14690*. **SP305-6.**
- Superconductivity; Beta-tungsten; Lattice transformation; Model electronic density of states; *SP323*, pp. 767-773. **SP305-4.**
- Superconductivity; Bibliography; Compilation of data; Composition; Critical field; Critical temperature; Crystallographic data; Low temperature; *TN724*. **SP305-4.**
- Superconductivity; Bibliography; Compilation of data; Composition; Critical field; Critical temperature; Crystallographic data; Low temperature; *TN408*. **SP305.**
- Superconductivity; Bibliography; Compilation of data; Composition; Critical field; Critical temperature; Crystallographic data; Low temperature; *TN482*. **SP305-1.**
- Superconductivity; Bibliography; Composition; Critical fields; Critical temperature; Crystallographic data; Data compilation; Low temperature; Superconductive materials; *TN825*. **SP305-6.**
- Superconductivity; Bibliography; Composition; Critical fields; Critical temperature; Crystallographic data; Low temperature; Superconductive materials; *JPCRD 5*, No. 3, 581-822 (1976). **SP305-8.**
- Superconductivity; Cardiology; Instrumentation; Josephson effect; Magnetometry; *12190*. **SP305-3.**
- Superconductivity; Cryogenics; Helium; Meeting summary; Refrigeration; *15832*. **SP305-8.**
- Superconductivity; Cryogenic refrigeration; Superconductive electronics; Superconducting magnets; Superconductive materials; Superconducting phenomena; Superconductive power transmission; *10841*. **SP305-1.**
- Superconductivity; Cryogenic resistors; Current comparator; Low temperature; Shielding; SQUID; Superconducting shunt; *15597*. **SP305-7.**
- Superconductivity; Cryogenics; Electricity; Energy; Helium power; *14872*. **SP305-7.**
- Superconductivity; Cryogenics; Electronic tunneling; Josephson effect; *16200*. **SP305-8.**
- Superconductivity; Cryogenics; CTR; Electric power; Energy storage; Generators; Instrumentation; MHD; *16465*. **SP30.**
- Superconductivity; Cryogenics; Infrared; Josephson junctions; Lasers; *14167*. **SP305-6.**
- Superconductivity; Cryogenics; Infrared; Josephson junctions; Lasers; *14594*. **SP305-6.**
- Superconductivity; Cryogenics; Josephson effect; Metrology; *12892*. **SP305-4.**
- Superconductivity; Cryotemperatures; Frequency measurements; Harmonic mixing; Infrared; Josephson junctions; *12611*. **SP305-4.**
- Superconductivity; Cryotemperatures; Harmonic mixing; Infrared detectors; Josephson junctions; Laser frequency measurements; Lasers; *12898*. **SP305-4.**
- Superconductivity; Current comparator; Low temperature electrical measurement; Quantum interference device; Resistor; Transformer; Resistive divider; *14937*. **SP305-7.**
- Superconductivity; Delay line; Picosecond; Pulse measurement; *14776*. **SP305-7.**
- Superconductivity; Delay line; Picosecond; Pulse measurement; *14825*. **SP305-7.**
- Superconductivity; Detectors; Infrared; Josephson effect; Lasers; *12166*. **SP305-3.**
- Superconductivity; Dielectric function; Green's function; Semiconductors; Semimetals; *11025*. **SP305-2.**
- Superconductivity; Electrical machinery; Land transportation; Power transmission; Propulsion systems; Superconductive devices; Superconducting magnets; *14175*. **SP305-6.**
- Superconductivity; Electrical measurements; Quantum interference devices; *TN629*. **SP305-5.**
- Superconductivity; Electromagnetic noise; Fundamental constants; Josephson effect; *11637*. **SP305-2.**
- Superconductivity; Electron tunneling; Electronic devices; Infrared; Josephson effect; Strong electron-phonon coupling; *16478*. **SP305-8.**
- Superconductivity; Electronic density of states; Fermi surface; In-Cd alloys; Pressure; Strain; *SP323*, pp. 735-736. **SP305.**
- Superconductivity; Electronic devices; Electron tunneling; Josephson effect; Strong electron-phonon coupling; *164*. **SP305-8.**
- Superconductivity; Electronics; Josephson effect; Precise measurements; *TN630*. **SP305-5.**
- Superconductivity; Electronics; Josephson effect; Precise measurements; *14971*. **SP305-7.**
- Superconductivity; Electronics; Low temperature; Measurements; *13237*. **SP305-5.**
- Superconductivity; Fundamental constants; Josephson effect; Precise electrical measurements; *13517*. **SP305-5.**
- Superconductivity; Ginzburg Landau theory; Indium lead alloy; *9240*. **SP305.**
- Superconductivity; High frequency; Infrared; Josephson effect; Measurements; *16498*. **SP305-8.**
- Superconductivity; High transition temperature; Pressure effects; Proximity effect; Superconductive alloys; Superconductive compounds; *13544*. **SP305-5.**
- Superconductivity; Inductive ratio divider; Josephson effect; NPL of UK; Potential-divider resistor; Quantum standard voltage; Solder-drop Josephson junctions; *SP335*, pp. 1-115. **SP305-3.**

conductivity; Infrared; Josephson effect; Lasers; Submillimeter waves; 11509. SP305-2.

conductivity; Josephson effect; Point contacts; 13269. SP305-5.

conductivity; Josephson effect; Quantum interference; Rf enuaction; Rf measurements; 13359. SP305-5.

conductivity; Josephson effect; Quantum interference; Rf enuaction; Rf measurements; 13557. SP305-5.

conductivity; Josephson effect; Quantum interference; Rf enuaction; Rf measurement; Rf power; TN643. SP305-5.

conductivity; Josephson effect; 12082. SP305-3.

conductivity; Josephson effect; Quantum interference; Rf enuaction; Rf measurement; Rf power; TN661. SP305-6.

conductivity; Josephson junction; Quantum interference; attenuation; 14726. SP305-7.

conductivity; Josephson junction; Quantum interference; attenuation; 14838. SP305-7.

conductivity; Magnetometer; Microwaves; Quantum interference; 12954. SP305-4.

conductivity; Mercury switch; Picosecond; Pulse generation; Pulse measurement; NBSIR 74-377. SP305-6.

conductivity; Semiconductors; Strontium titanate; 9397. SP305-3.

conductivity; Superfluid; Cryogenics; Cryopump; Cryostat; Electrical lead; Heat transfer; Mechanical properties; Refrigeration; Safety; 11147. SP305-2.

conductivity; Surface potential barrier; Tunneling; Indium; Semiconductors; SrTiO<sub>3</sub>; Strontium titanate; 11925. SP305-3.

conductivity; Switch; Temperature; Thermometer; Barings; Bolometer; Electron microscope; Helium; Hydrogen; Level gauging; Liquid level; Magnet; Motor; Pump; Rectifier; Solenoid; 9715. SP305-1.

conductivity; Temperature; Acoustical thermometry;  $\gamma$ - $\gamma$  anisotropy thermometry; Noise thermometry; Nuclear magnetic resonance; Nuclear quadrupole resonance; Paramagnetism; TN830. SP305-6.

conductivity; Temperature; Fixed points; Paramagnetism; 1178. SP305-6.

conductivity; Temperature; Josephson junction; 14057. SP305-6.

conductivity; Temperature; Josephson junctions; Noise thermometer; Nuclear orientation; Paramagnetism; TN823. SP305-6.

conductivity; Temperature; Thermometric fixed point; Acceptability; 13838. SP305-6.

conductivity; Temperature; Thermometric fixed points; Superconductive transition temperatures; 15052. SP305-7.

conductivity; Temperature scale; Fixed points; OSRM; Superconductive devices; Superconductive transition temperature; 13591. SP305-5.

conductivity; Thermal expansion; Thorium; Volume dependence of density-of-states; Aluminum (Al); Electronic density of states; Electronic specific heat; Gallium; Gruneisen parameter, electronic; SP323, pp. 731-734. SP305-4.

conductivity; Thermal noise; Josephson radiation; Linewidth; Point contacts; 10258. SP305-1.

conductivity; Thermometric fixed points; Zinc; Aluminum; Cadmium; Cryogenics; Indium; Lead; Magnetic susceptibility; Superconductive transition temperature; P260-44. SP305-4.

conductivity; Thermometric fixed point; Transition temperature; Carbon resistance thermometry; Electrical resistance; Heat capacity; Indium; Magnetic susceptibility; 2889. SP305-4.

conductivity; Thermometric fixed points; Calibration techniques; Cryogenic temperature scale; OSRM; Pure elements; 12988. SP305-4.

Superconductivity; Thermometric fixed point; Transition temperature; Transition widths; Cryogenics; Pure cadmium; Reproducibility; 14530. SP305-6.

Superconductivity; Thermometry; Critical magnetic field; Heat capacity; Josephson junctions; Noise thermometry; Superconductive fixed points; 13540. SP305-5.

Superconductivity; Thermometry; Josephson effect; Noise; 12159. SP305-3.

Superconductivity; Thermometry; Josephson effect; Linewidth; Millidegree; Noise; 10376. SP305-1.

Superconductivity; Thermometry; Tunnel junctions; Josephson effect; TN381. SP305-1.

Superconductivity; Thermometry; Transition temperature; 13485. SP305-5.

Superconductivity; Titanates; Ceramic; Ferroelectric; Mixed compounds; Semiconductors; 9726. SP305-1.

Superconductivity; Titanium; Alloys; Cobalt; Ferromagnetism; Hyperfine fields; Iron; Moments; Mossbauer effect; 9576. SP305-1.

Superconductivity; Ti; Critical field; Density of states; In; Pressure dependence; SP323, pp. 681-684. SP305-4.

Superconductivity; Transformer; Current comparator; Current ratio; Shielding; 14558. SP305-6.

Superconductivity; Transition elements; Atomic ordering; Binary A-15 compounds; 11864. SP305-3.

Superconductivity; Transition temperatures; Vanadium carbides; Band structure of solids; Cryogenics; 12266. SP305-3.

Superconductivity; Transition temperatures; Semiconductors; SrTiO<sub>3</sub>; 10381. SP305-1.

Superconductivity; Transition temperatures; Critical magnetic field; Iridium; 13872. SP305-6.

Superconductivity; Transition temperature; Annealing; Magnetic field; Stoichiometry; 14235. SP305-6.

Superconductivity; Transition temperatures; A15 compounds; Atomic ordering; Critical magnetic field; Superconducting; 14249. SP305-6.

Superconductivity; Transition temperatures; Uniaxial compression; 0-1.8 kbars stress; Anisotropic stress effect; Hydrostatic pressure; Nb-doped SrTiO<sub>3</sub>; Reduced SrTiO<sub>3</sub>; 11767. SP305-2.

Superconductivity; Transition temperature maximum; Transition temperatures; Charge carrier density; Nb-doped SrTiO<sub>3</sub>; 11421. SP305-2.

Superconductivity; Transition temperatures; Fixed points; SRM 767; 15062. SP305-7.

Superconductivity; Transport processes; Author indexes; Bibliography; Cryogenics; Liquefaction; Metrology; Properties of fluids; Properties of solids; Subject indexes; TN639. SP305-5.

Superconductivity; Transport properties; Tunneling; Band structure; Disordered systems; Electronic density of states; Ion neutralization; Knight shift; Magnetic susceptibility; Many-body effects; Optical properties; Photoemission; Soft x-ray; SP323. SP305-4.

Superconductivity; Tunneling; Density of states; Phonons; Semiconductors; SP323, pp. 673-679. SP305-4.

Superconductivity; Tunneling; Density of states; Low density superconductor; Semiconductor; Superconducting semiconductor; 11357. SP305-2.

Superconductivity; Tunneling; Density of states; Phonons; Semiconductors; J.74A No. 4, 559-565 (1970). SP305-2.

Superconductivity; Tunneling; Electronics devices; High speed devices; Josephson effect; Superconducting devices; 16485. SP305-8.

Superconductivity; Vanadium alloys; A 15 phases; Atomic ordering; Magnetic structure; Neutron diffraction; 14574. SP305-6.

Superconductivity; Vanadium alloys; A15 phases; Iridium alloys; 15192. SP305-7.

Superconductivity; Voltage divider; Null detector; 12967. SP305-4.

Superconductivity switch; Instrumentation; 12621. SP305-4.

Superconductor; Electronic band structure; Heat capacity; Mixed titanate; Phase transition; Semiconductor;  $\text{SrTiO}_3$ ; 10330. SP305-1.

Superconductor; Geophysical prospecting; Magnetometer; Magnetotelluric; Quantum interference; SQUID; 14600. SP305-6.

Superconductor; Surface energy type I superconductors; Cadmium; Condensation energy; Demagnetization coefficient; Fluctuations; Inhomogeneous superconductor; Intermediate state; Superconducting-normal transition; 16450. SP305-8.

Superconductor; Susceptibility; Diamagnetism; Light scattering; Molecular diffusion; Organic molecule; 16529. SP305-8.

Superconductor; Thermal expansion; Young's modulus; Composite; Low temperature; Poisson's ratio; *NBSIR 73-349*. SP305-6.

Superconductor; Thin film; Ginzburg-Landau theory; Magnetic field; 9541. SP305-1.

Superconductor; Transition metal; Transition temperature; Dielectric function; 13532. SP305-5.

Superconductor; Transition temperature; Energy gap equation; Semiconductors; 13531. SP305-5.

Superconductor losses; Supercritical helium; Transient heat transfer; Forced convection heat transfer; Pulsed power systems; Pulsed superconducting magnets; *NBSIR 74-363*. SP305-6.

Superconductors; Amplifier noise; Josephson effect; Low temperature; Noise temperature; 12605. SP305-4.

Superconductors; Atomic ordering; Intermetallic compounds; Magnetic susceptibility; 12300. SP305-3.

Superconductors; A-15 type phases; Atomic ordering; Beta-tungsten compounds; Critical magnetic fields; Critical temperatures; 10977. SP305-2.

Superconductors; Brayton cycle; Refrigeration; Superconducting transmission lines; *NBSIR 74-375*. SP305-6.

Superconductors; Cryogenics; Infrared; Josephson junctions; Lasers; Radiation detectors; 16458. SP305-8.

Superconductors; Density of states; Green's function; Mass enhancement; Quasi-particle; *SP323*, pp. 227-231. SP305-4.

Superconductors; Density of states; Green's function; Mass enhancement; Quasi-particle; *J.74A No. 4*, 537-541 (1970). SP305-2.

Superconductors; Electronics; Low temperature; Materials; 12604. SP305-4.

Superconductors; Liquefied gases, liquid level gages; Liquid level gages, hydrogen; Liquid rocket propellants; Performance (engineering); Sensors; 9851. SP305-1.

Superconductors; Symposium; Critical current; Mechanical properties; Stress effects; 16636. SP305-8.

Superconductors; Theory; Computations; Cooling system; Cryogenics; Electric power transmission; Flow stability; Helium; Oscillations; 15809. SP305-8.

Superconductors; Thermal radiation shields; Total emissivity; Niobium; 13371. SP305-5.

Superconductors; Thermodynamics; Equation of state; Helium; Hydrodynamics; Near-critical flow; Refrigeration; *NBSIR 73-331*. SP305-6.

Superconductors; Thermometry; Transition widths; Wire samples; Elements; Fixed points; Reproducibility; 12511. SP305-4.

Supercooled liquid; Thermal relaxation; Glassy state; Glass transition; Heat capacity; Polymer; Specific heat; Strain energy; 16309. SP305-8.

Supercooled liquid; Thermodynamic properties; Trigonal selenium; Annealed and quenched glasses; Calorimetry; Glass transformation; Heat capacity; Selenium; 14179. SP305-6.

Supercooling; Carbon dioxide;  $\text{CO}_2$ ; Critical point; Nucleation; 14915. SP305-7.

Supercooling; Glassy state; Lennard-Jones system; Monte Carlo simulation; Nucleation; Overcompression; *J. Res. 80A No. 59-64* (1976). SP305-8.

Supercooling; Theoretical model; Thermal analysis; Thermodynamic properties; Differential scanning calorimetry (DSC); Electronic and thermal coupling; Instrumental limitations; 14824. SP305-7.

Supercritical; Boiling; Convection; Critical; Heat transfer; Helium I; 11134. SP305-2.

Supercritical; Boiling; Convection; Critical; Heat transfer; Helium I; 11135. SP305-2.

Supercritical; Centrifugal pump; Critical heat flux; Film boiling; Forced convection; Heat transfer; Helium; Nucleate boiling; Subcritical; 13666. SP305-5.

Supercritical; Correlation; Forced convection; Heat transfer; Helium; 14962. SP305-7.

Supercritical; Correlations; Cryogenics; Forced convection; Heat transfer; Helium; 12534. SP305-4.

Supercritical; Critical heat flux; Film boiling; Forced convection; Heat transfer; Helium; Nucleate boiling; Subcritical; 14930. SP305-7.

Supercritical; Forced convection; Heat transfer; Helium; 14001. SP305-6.

Supercritical; Transition; Turbulent flow; Buoyancy; Channel film boiling; Forced convection; Helium I; Helium II; Mixed convection; Nucleate boiling; Subcritical; *TN675*. SP305-8.

Supercritical component; Van der Waals/Percus and Yevick-Henry's constants; Liquid mixtures; Partition function; Phase equilibria; Statistical thermodynamics; 11403. SP305-2.

Supercritical flow; Transcritical flow; Turbulence; Circulation; Power spectra; Pressure fluctuations; Subcritical flow; *BSS30*, pp. 87-91. SP305-3.

Supercritical fluctuations; Ultrasonic spectroscopy; Viscosity relaxation; Immiscibility; Oxide glasses; Relaxation times; 11986. SP305-3.

Supercritical helium; Flow resistance; Helium; Ledinegg instability; Negative flow resistance; 16232. SP305-8.

Supercritical helium; Transient heat transfer; Forced convection heat transfer; Pulsed power systems; Pulsed superconducting magnets; Superconductor losses; *NBSIR 74-301*. SP305-6.

Supercritical storage; Two-phase flow; Zero gravity; Boiling heat transfer; Bubble dynamics; Cavitation; Condensing heat transfer; Correlations; Cryogenic fluid safety; Fluid dynamics; Fluid transfer; Heat transfer; Heat transfer equipment; Liquid helium; 13242. SP305-5.

Super-duty silica brick; Glass chromatography; Immiscibility and courses of crystallization; Immiscibility and practical applications; Immiscibility and thermodynamics; Immiscibility; oxides; Liquid immiscibility; 11902. SP305-3.

Super-excitation; Chromosphere; Chromospheric clouds; Russell-Adams effect; *SP332*, pp. 283-289. SP305-2.

Superexcited molecule; Butane; Ionization efficiency; Ion-molecule reactions; Ion-pair yields; Photoionization; 927. SP305.

Superexcited molecules; Alkanes; Free radical reaction; Ion-molecule reactions; Photoionization; Photolysis; Primary processes; 10728. SP305-1.

Superexcited molecules; Cyclohexane; Free radicals; Ion-molecule reactions; Photolysis; 10823. SP305-1.

Superfluid; Cavitation; Helium; Pump performance; Pump; *NBSIR 73-316*. SP305-6.

Superfluid; Cryogenics; Cryopump; Cryostat; Electrical properties; Heat transfer; Mechanical properties; Refrigeration; Safe Superconductivity; 11147. SP305-2.

Superfluid; Vortices; Coherent Bose gas; *J.73A No. 3*, 309-310 (1969). SP305-1.

Superfluid helium; Thermal conductivity; Aluminum; Copper; Heat transfer; Kapitza conductance; Niobium; 13569. SP305-5.



fluid helium; Two phase flow; Compressibility flow; Rheogenics; Fluid dynamics; Pressure drop; 16642. SP305-8.

fluid transition; Ground state wave function; Liquid <sup>4</sup>He; neutron diffraction data; Pair correlation function; Short range behavior; Structure factor; *J.77A No. 6, 725-731 (72)*. SP305-5.

fluids; Transport processes; Critical phenomena in; Binary systems; Binary liquid mixture; Critical opalescence; Gas liquid transition; Laser light scattering; Magnets; 10602. SP305-1.

gain antennas; Antenna arrays; Computed performance; Free antenna arrays; Radiation patterns; 10089. SP305-1.

hyperfine interaction; Ytterbium; Cadmium fluoride; *R. 12312*. SP305-3.

lattice; Antiferromagnetism; Cerium magnesium nitrate; Crystal representation; Dipole-dipole interaction; Ground state; Luttinger-Tisza method; Neodymium magnesium nitrate; 13272. SP305-5.

lattice; Tantalum carbide; Transition metal compounds; radium carbide; Carbides; Electron diffraction; Interpretation of ordering effects; Niobium carbide; Ordering effects; 164. pp. 583-590. SP305-4.

lattice reflections; Transmission electron microscopy;  $\delta'$ ; Metastable phase; Ordering reaction; Satellites; Spinodal composition; 15840. SP305-8.

lattices; Crystal aggregates; Crystals; Grain boundaries; Sublattices; 13699. SP305-5.

lattices; Crystallography; Lattices; Sub-lattices; 13697. SP305-5.

linearity; Thermoluminescence; Trap formation; Bremsstrahlung;  $\text{Co}^{59}$  photons; Energy dependence; F centers; Impurities; LiF (TLD); Rate dependence; 10921. SP305-2.

market automation; Weights and measures; Calibration; Communication; Consumers; Grain moisture measurement; Laws and regulations; Measurement; Metric; Packaging and labeling; Police radar equipment; Standards; *SP442*. SP305-1.

multi-pole theory; Nuclear binding energies; Nuclear quarks; Nuclear reactions; Nuclear structure; Quartet model; 1361. SP305-5.

oxide; Alkaline; Complex; Copper, e.s.r.; Ligand; Paramagnetic; Reagent; Spectra; Structure; *J.74A No. 5, 723-731 (1970)*. SP305-2.

paramagnetic particles; Alloy; Clustering; Copper Ni iron; Paramagnetism; Interactions; Magnetic; Specific heat; 1591. SP305-4.

position; BKZ theory; Concentrated solutions; Nonlinear behavior; Polyisobutylene; Polystyrene; 14566. SP305-6.

position; Crystal; Structure; Patterson; Vector; Symmetry; Consistency; Frequency; *J.70A4-407, 319-321 (1966)*. SP305-3.

position; Thermal expansion; Volume relaxation, WLF; Calorimeter; Isothermal volume change; Polyethylene; Specific volume; 13774. SP305-5.

position approximation; Three body correlation function; Ray diffraction; Neutron diffraction; Percus-Yevick equation; Radial distribution function; Simple liquids; 12016. SP305-3.

position of configurations; Atomic wavefunction; Correlation energy; Electron affinity; 10446. SP305-1.

position of configurations; Correlation energy; Electronic energy surface; Gaussian-type functions; Hartree-Fock;  $\text{H}_2$ ; 916. SP305-2.

position of configurations; Electron affinity; Electron correlation; Ionization potential; 12086. SP305-3.

position of configurations; Wavefunctions; Multiplet lengths; 10447. SP305-1.

position of configurations; Wavefunctions; Atomic energy levels; Oscillator strengths; 10294. SP305-1.

Superposition of configurations; Wave functions; Energy levels; Oscillator strengths; 11606. SP305-2.

Super-purity metals; Aluminum; Electrical resistivity; Grain boundaries; Solute segregation; 11818. SP305-3.

Super-purity metals; Aluminum; Electrical resistivity; Grain boundaries; Recrystallization; Solute segregation; 11635. SP305-2.

Super-purity metals; Aluminum; Grain size; Recrystallization; Resistivity ratio; 11349. SP305-2.

Super-resonance; U-spin equalities; Octet symmetry breaking; Q plots; Reaction cross section; Strong interactions; Sum rules; 9938. SP305-1.

Supersonic; Transition; Turbulent; Airfoil theory; Boundary layer; Drag; Heat transfer; Laminar; Lift; Skin friction; Subsonic; 12786. SP305-4.

Supersonic dislocation; Dislocation dynamics; Interface dislocations; *SP317, pp. 71-82*. SP305-3.

Superstructure;  $\text{Ta}_2\text{O}_5\text{-ZrO}_2$ ; Equilibrium;  $\text{Nb}_2\text{O}_5\text{-ZrO}_2$ ; Ordered defects;  $\alpha\text{-PbO}_2$ -type phase(s); Single crystals; *SP364, pp. 183-195*. SP305-4.

Super-transferred hyperfine fields; Antisymmetrical exchange; Copper(n)-nickel(II) pairs; Dimeric complexes; E.p.r.; Exchange-coupled metal ions; Hyperfine fields; 11296. SP305-2.

Supervisory control; Test equipment reliability; Automated test equipment; Automated tests for jet engine fuel controls; Computer interfacing; Digital computer controlled tests; Jet engine fuel control testing; Minicomputer applications; Minicomputer controlled tests; 15087. SP305-7.

Supervoltage; Therapy; Dosimetry; Intercomparisons; Radiation; *SP456, pp. 359-363 (Nov. 1976)*. SP305-8.

Supplementary system; Traditional property-rights; Unrestricted copying; Useful service; Anti-trust violations; Better products; Copiers; Developer-producer's; Dormant patents; Higher productivity; Improvements; Industrial stimulus; 9780. SP305-1.

Supporting utilities; ADP security; Computer reliability; Contingency plans; Federal Information Processing Standard; Fire safety; Natural disasters; Physical security; Risk analysis; Security audit; Security awareness; *FIPS PUB 31*. SP305-6.

Suppression; After-pulse; GaP first dynode; Neutron; Photoelectron; Photomultiplier; Resolution; 14843. SP305-7.

Suppression; Behavior; Behavioral suppression; Exposure; Microwave radiation; Microwaves; Product safety; Radiation; Radiation effects; Resonant cavity; Rhesus; 15194. SP305-7.

Suppression; Chemical kinetics; Combustion; gas phase; Flame kinetics; Flame mechanisms; Flame suppression; Inhibition; *SP357, pp. 131-140*. SP305-4.

Supralinearity; Dosimetry; Fading; Furnace annealing; Glow curve; Maximum heating temperature; Peak height; Reproducibility; Sensitivity loss; 15193. SP305-7.

Suprathreshold visibility; Visibility; Vision; Gratings; Illuminating engineering; Lighting; Modulation transfer function; 16008. SP305-8.

Suprathreshold visibility; Visibility; Vision; Gratings; Illuminating engineering; Lighting; Modulation transfer function; *BSS82*. SP305-8.

Surface; Adatom; Binding energy; Field ion microscope; 16543. SP305-8.

Surface; Adsorption; Amorphous; Free-radical; Ionic; Manganese dioxide; Polycrystalline; Structure; 12314. SP305-3.

Surface; Adsorption; Hydroxyapatite; Ion exchange; Nucleation; Reaction rate; 15019. SP305-7.

Surface; Amorphous calcium phosphate; Bone mineral; Fluorapatite; Hydroxyapatite; Morphology; Non-stoichiometry; Octacalcium phosphate; Solubility; 16307. SP305-8.

Surface; Bone mineral; Calcium phosphate; Hydroxyapatite; Solubility product; *J.77A No. 1, 149-155 (1973)*. SP305-5.

Surface; Charge; Electrokinetics; Glass; 12813. SP305-4.

- Surface; Crack healing; Fracture; Glass; Strength; 11993. SP305-3.
- Surface; Glass; Laser damage; 12239. SP305-3.
- Surface; Surface active agent; Complex-ion embrittlement; Dislocations; Liquid metal embrittlement; 11972. SP305-3.
- Surface; Surface breakdown plasma; Thin film; Time resolved damage; Damage induced reflectivity change; Laser induced damage; Laser induced surface acoustic waves; SP372, pp. 104-107. SP305-4.
- Surface; Surface diffusion; Tungsten; Work function; Adsorption; Chemisorption; Desorption; Dissociation; Field emission microscopy; Kinetic; Nitric oxide; 9421. SP305.
- Surface; Surface finish; Doping; GaAs; Laser induced damage; Photoconductivity; SP372, pp. 70-74. SP305-4.
- Surface; Surface finish; Surface integrity; Surface questionnaire; Surface survey; CIRP; 15464. SP305-7.
- Surface; Surface finish; Surface profile; Microscope; Microtopography; Single-crystal surface; 12837. SP305-4.
- Surface; Surface finish; Surface profile; Microscope; Microtopography; Single-crystal surface; 14523. SP305-6.
- Surface; Surface finish; Surface roughness measurement; 16140. SP305-8.
- Surface; Surface finish; Surface roughness; Technology assessment; Economic factors; Measurement; NBSIR 75-927. SP305-8.
- Surface; Surface instrumentation; Surface metrology; Topography; Tunneling; Diffraction grating; Field emission; Micrometrology; Profile; 12919. SP305-4.
- Surface; Testing; Absorption; Coatings; High-power laser; Measurements; SP387, pp. 189-193. SP305-5.
- Surface; Thick film; Thin film; Waviness; Camber; Ceramic; Fired; Flatness; Ground; Lapped; Microwave; Polished; Roughness; Substrate; SP348, pp. 293-300. SP305-4.
- Surface; Total electronic energy distribution; Adsorbate density of states; Adsorbate energy level; Chemisorb; Field emission; 14072. SP305-6.
- Surface; Tungsten; Adsorption; Chemisorption; Cross section; Desorption; Electron stimulated desorption; Hydrogen; Nickel; Nitrogen; Oxygen; 12332. SP305-3.
- Surface; Tungsten; Tunneling resonance; Adsorption; Alkaline earths; Atomic energy levels; 11769. SP305-2.
- Surface; Tungsten; Work function; Adsorption; Chemisorption; Desorption; Electron reflection; Electron stimulated desorption; Oxygen; Single crystal W(100); 14443. SP305-6.
- Surface; Tunneling resonance; Adsorption; Energy distribution; Field emission; 11084. SP305-2.
- Surface acoustic waves; Surface characterization; Transmission electron microscopy; Auger electron spectroscopy; Ion beam profiling; Laser-induced damage; Lithium niobate; Potassium chloride; SP414, pp. 135-140. SP305-6.
- Surface active agent; Complex-ion embrittlement; Dislocations; Liquid metal embrittlement; Surface; 11972. SP305-3.
- Surface active agents; Surface chemistry; Surface tension; Surfactant; Association colloid; Bibliography; CMC; Colloid; Colloidal electrolyte; Critical concentration; Critical micelle concentration; Detergent; Hydrophobic bonding; Krafft point; NSRDS-NBS36. SP305-3.
- Surface analysis; Auger electron spectroscopy; Elemental depth profiling; Ion microprobe mass analysis; Ion optics; Local thermal equilibrium (LTE); Mineral analysis; Secondary ion mass spectrometry (SIMS); SP427. SP305-7.
- Surface analysis; Contrast; Electron probe microanalysis; Electron spectroscopy for chemical analysis (ESCA); Ion microprobe analysis; Scanning electron microscopy; 15142. SP305-7.
- Surface area; Adsorption; Ammonia adsorption; Carbon dioxide adsorption; Dentin; Dental adhesive; Heats of adsorption; 13260. SP305-5.
- Surface area; Cation exchange capacity; Cone-plate viscometer; Crystallinity; Flow properties; Kaolins; 9491. SP305.
- Surface area; Dentin; Heats of wetting; Organic content; dentin; 9595. SP305-1.
- Surface area; Surface chemistry; Teeth; Adsorption; Anorganic bone mineral and dentin; Bone; Calcium phosphate; Hydroxyapatite; Octacalcium phosphate; Pore size distribution; Pore volume; 9899. SP305-1.
- Surface area; Teeth; Water vapor; Adsorption; Dental materials; Hysteresis; Sorption; 13321. SP305-5.
- Surface area; Teeth; Water vapor adsorption; Adsorption theory; Aggregate; adsorption by; Collagen; Dental material; Dentin; Enamel; 14966. SP305-7.
- Surface area; Water content; Water vapor adsorption; Adsorption; Computer application; Desorption; Dry weight determination; Moisture content; J.79A No. 4, 565-576 (1979). SP305-7.
- Surface atmosphere; Ionosphere; Lunar tides; Lunar variations; 10272. SP305-1.
- Surface barrier detectors;  $^6\text{Li}(n,\alpha)$ ; Absolute cross section measurements; Manganese bath; Neutron cross sections; Photoneutron sources; SP425, pp. 236-239. SP305-7.
- Surface bonds; Uv photoemission; Angular distributions; Binding geometry; Chemisorption; Energy distributions; Oxygen (100) tungsten; 15089. SP305-7.
- Surface characterization; Ellipsometry; Field-emission; Low energy-electron diffraction; Microscopy; Optical constants; Oxidation; 11397. SP305-2.
- Surface characterization; Transmission electron microscopy; Auger electron spectroscopy; Ion beam profiling; Laser induced damage; Lithium niobate; Potassium chloride; Surface acoustic waves; SP414, pp. 135-140. SP305-6.
- Surface chemistry; Hydroxyapatite; Nonstoichiometry; Solid solution ratio; Solubility; 15195. SP305-7.
- Surface chemistry; Surface tension; Surfactant; Association colloid; Bibliography; CMC; Colloid; Colloidal electrolyte; Critical concentration; Critical micelle concentration; Detergent; Hydrophobic bonding; Krafft point; Long chain compounds; NSRDS-NBS36. SP305-3.
- Surface chemistry; Teeth; Adsorption; Anorganic bone mineral and dentin; Bone; Calcium phosphate; Hydroxyapatite; Octacalcium phosphate; Pore size distribution; Pore volume; Surface area; 9899. SP305-1.
- Surface cleanliness; Valence-band; X-ray photoemission; Electronic density of states; Pt; 14136. SP305-6.
- Surface concentration; Surface self-diffusion; Whisker growth; Curtis approximation; Dittmar-Neumann approximation; Mean stay time; Stefan problem; 9508. SP305.
- Surface contamination; Cleaning; Desorption; Ions; Outgassing; Quartz crystal microbalance; Solar panels; Space; Sputter; SP336, pp. 113-127. SP305-3.
- Surface coverage; Adsorption kinetics; Nitrogen; Rhodium; Sticking coefficient; 9394. SP305.
- Surface cracks; Ablation; Catastrophic ablation; Substrate heating; SP336, pp. 853-877. SP305-3.
- Surface crystals; Surface dislocations; Dislocations; Biophysics; Protein structure; SP317, pp. 579-592. SP305.
- Surface damage; Beveling; Diamond grinding; Laser beam angle measurement; Layer thickness determination; Materials; Resistivity measurement; Silicon doping profiles; Spreading resistance measurement; SP400-10, pp. 123-136. SP305-6.
- Surface damage; Damage threshold; Exit damage; NaCl; SP305, pp. 175-180. SP305-5.
- Surface damage; Laser damage; SP387, pp. 80-83. SP305-5.
- Surface damage; Surface recombination lifetimes; Laser damage; Silicon photodetector; SP387, pp. 107-113. SP305-5.
- Surface damage; Surface treatment;  $\text{LiNbO}_3$ ; 1.06  $\mu\text{m}$ ; Oxygen deficiency; SP414, pp. 131-134. SP305-6.

damage; Temporal pulse monitoring; Transmission; 14  $\mu\text{m}$ ; Back-scattering; Precatastrophic damage; Pulse dynamics; Reflection; Ruby laser; *SP414*, pp. 179-189. **SP305-6.**  
 damage; 1.06  $\mu\text{m}$ ; 0.694  $\mu\text{m}$ ;  $\text{Ag}_3\text{AsS}_3$ ; Proustite; Pulse time dependence; Repetition rate dependence; *SP387*, pp. 239-249. **SP305-5.**  
 defects; Rutile crystal damage; Yttrium orthovanadate crystal damage; Damage morphology; Polishing compounds; size dependence; *SP414*, pp. 193-199. **SP305-6.**  
 degradation; Volatile degradation products; Xenon-arc irradiation; Atmospheric exposure; ATR spectroscopy; Clear pigmented films; Infrared analysis; Internal reflection spectroscopy; Mercury-arc irradiation; Organic coatings; 36, pp. 299-312. **SP305-3.**  
 density of states; Theory; Ferromagnetic transition metals; Field emission; Spin polarization; Strongly correlated states; *15090*. **SP305-7.**  
 density of states; Total energy distribution; Field emission; Metal surface; Photoemission; *14152*. **SP305-6.**  
 detection; Dimensional metrology; Displacement measurement; Microscope; Non-contact sensing; Optical surface; *13617*. **SP305-5.**  
 diffusion; Surface diffusion constant; Whisker; Whisker formation; Mean adatom stay time; Moving boundary; nan problem; *11129*. **SP305-2.**  
 diffusion; Tantalum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Zirconium; Zirconium; Alloy diffusion; Beryllium; Cerium; Chromium; Copper; Diffusion; *J. Phys. Chem. Ref. Data*, No. 1, 177-250 (1975). **SP305-7.**  
 diffusion; Thermo-migration; Copper; Diffusion; Electromigration; Liquid copper diffusion; Nuclear magnetic resonance and diffusion; Pressure effects on diffusion; Self-diffusion; Sintering; *J. Phys. Chem. Ref. Data* 2, No. 3, 643-650 (1973). **SP305-6.**  
 diffusion; Thermomigration; Alloy diffusion; Copper; Diffusion; Electromigration; Gold; Grain boundary diffusion; Surface diffusion; Liquid metal diffusion; Silver; *J. Phys. Chem. Ref. Data* 3, No. 2, 527-602 (1974). **SP305-6.**  
 diffusion; Tungsten; Work function; Adsorption; Desorption; Desorption; Dissociation; Field emission spectroscopy; Kinetic; Nitric oxide; Surface; *9421*. **SP305.**  
 diffusion constant; Whisker; Whisker evaporation; Mean adatom stay time; Moving boundary; Stefan problem; Surface diffusion; *11129*. **SP305-2.**  
 dislocations; Dislocations in biophysics; Protein structure; Surface crystals; *SP317*, pp. 579-592. **SP305-3.**  
 effect; Aliphatics; Aromatics; Complexing effects; Gas chromatography; Group separation; Mercuric nitrate; Olefins; mer nitrate; *12024*. **SP305-3.**  
 effects; Automated resistivity measurements; Calibration; Germanium characterization; Sample preparation; Silicon characterization; Spreading resistance; *SP400-10*, pp. 154. **SP305-6.**  
 effects; Surface preparation; Bevel polishing; *p*-type silicon; Resistivity depth profiling; Resistivity radial profiling; Semiconductor; Spreading resistance measurements; *SP400-10*, pp. 249-256. **SP305-6.**  
 effects; Thermal radiation properties; Absorbance; Electromagnetic theory; Emittance; Measurement techniques; Metals; Reflectance; *13684*. **SP305-5.**  
 effects; Tunnel diodes; Degradation; Gallium arsenide; Tunnel diodes; Field emission; *9468*. **SP305.**  
 electron spectroscopy; Surface state; Tungsten; Thermomigration; Field emission; Photoemission; Single crystals; *14982*. **SP305-7.**  
 energy; Cleavage; Cohesive strength; Cracks; Double cleavage cleavage technique; Fracture; Fracture mechanics; Stress intensity factor; *11192*. **SP305-2.**  
 Surface energy; Cleavage; Crack propagation; Elasticity; Fracture; Fracture energy; *10616*. **SP305-1.**  
 Surface energy; Cleavage; Fracture; Fracture energy; Plastic deformation; Sodium chloride; *11607*. **SP305-2.**  
 Surface energy; Crack propagation; Fracture surface energy; Glass; Soda-lime glass; Static fatigue; Stress corrosion; *10129*. **SP305-1.**  
 Surface energy; Tetrafluoroethylene-hexafluoropropylene; Comonomer concentration; Comonomer defect; Copolymers; Defect energy; Equilibrium melting temperature; Lamella thickness; Melting temperature; *9641*. **SP305-1.**  
 Surface features; Thermal expansion anisotropy; Fracture surface energy; Machining damage; Plastic deformation; Polycrystalline alumina; Strength; *14037*. **SP305-6.**  
 Surface films; Complex refractive index; Ellipsometry; Mercury; Optical constants; Refractive index; *9509*. **SP305.**  
 Surface finish; Composite restorative materials; Finishing; Operative dentistry; Polishing instruments; *12308*. **SP305-3.**  
 Surface finish; Surface integrity; Surface questionnaire; Surface survey; CIRP; Surface; *15464*. **SP305-7.**  
 Surface finish; Surface parameters; Characterization; Instruments; Measurement, statistical surface parameters; *15368*. **SP305-7.**  
 Surface finish; Surface profile; Microscope; Microtopography; Single-crystal surface; Surface; *14523*. **SP305-6.**  
 Surface fitting; Curve fitting; Data analysis; Equations of state; Model discrimination; *J75A No. 5, 441-453* (1971). **SP305-3.**  
 Surface fitting; Factorial experiments; Interaction; Nonadditivity; Principal components; *J73B No. 4, 309-328* (1969). **SP305-1.**  
 Surface fitting; Two-way arrays; Factorial experiments; Interaction; Nonadditivity; Principal components; *12109*. **SP305-3.**  
 Surface fitting; Two-way tables; Curve fitting; Data analysis; Empirical fitting of curves and surfaces; Model, mathematical; Response surface; *11380*. **SP305-2.**  
 Surface flammability; Fire hazard properties; Gaseous combustion products; Interior covering systems; Interior finishes; Smoke generation; *14607*. **SP305-6.**  
 Surface free energies; Chain folds; Fractions; Homogeneous nucleation; Molecular weight; Nucleation theory; Polyethylene; *J79A No. 6, 701-711* (1975). **SP305-7.**  
 Surface free energy; Chain folding; Crystal growth; Crystallization kinetics; Homogeneous nucleation; Interfacial energy; Nucleation; Polychlorotrifluoroethylene; Polyethylene; Polymers; *9454*. **SP305.**  
 Surface free energy; Crystallization; Homogeneous nucleation; Kinetics; Microscopy; Polyethylene; *9752*. **SP305-1.**  
 Surface free energy; Theory; Thermodynamics; Bulk; Chain fold; Crystallization; Fluctuation; Growth; Heat of melting; Homogeneous nucleation; Kinetics; Lamella thickness; Melt; Melting point; Nucleation; Polymer; Solution; *11329*. **SP305-2.**  
 Surface free-energy; Chain-folded crystals; Crystal growth; Kinetics; Multicomponent systems; *J71A4-458, 261-275* (1967). **SP305.**  
 Surface grafting; Tissue modification; Collagen; Graft polymers; Hard tissue; Soft tissue; *14617*. **SP305-6.**  
 Surface grafting; Tissue modification; Ceric ion initiated grafting; Chemical attachment to ratskin; Grafting to tissues; Peroxide initiated grafting; *14880*. **SP305-7.**  
 Surface grinding; Wear mechanism; Alumina; Cylindrical grinding; Diamond grinding wheel; Electron microscopy; Removal mechanism; Surface damage; Surface finish; *SP348*, pp. 99-112. **SP305-4.**  
 Surface analysis; Theory of grinding; Abrasive; Ceramics; Diamond; Fracture; Grinding; Grinding forces; Grinding temperatures; Machining; Polishing; Residual stresses; Stock removal; *SP348*, pp. 5-35. **SP305-4.**

Surface breakdown plasma; Thin film; Time resolved damage; Damage induced reflectivity change; Laser induced damage; Laser induced surface acoustic waves; Surface; *SP372*, pp. 104-107. **SP305-4.**

Surface characterization; Thoria; Tungsten; Emittance; Graphite; Iridium; Laser-source integrating sphere; Reflectance; Shallow cavity emittance; *12940*. **SP305-4.**

Surface characterization; Twinning; Flame polishing; Glass; Rutile; Sapphire; Spinel; Strength; *SP348*, pp. 237-244. **SP305-4.**

Surface condition; Surface grinding; Ceramics; Etch pits; Fracture; Grinding damage; Plastic deformation; *SP348*, pp. 317-332. **SP305-4.**

Surface damage; Abrasive machining; Ceramics; Crack healing; Sintering; *SP348*, pp. 233-236. **SP305-4.**

Surface damage; Acoustic emission; Glass; Lucalox; Pyroceram; *SP348*, pp. 341-342. **SP305-4.**

Surface damage; Alkali halides; Avalanche breakdown; Bulk damage; Self-focusing; *SP372*, pp. 27-39. **SP305-4.**

Surface damage; Chemically strengthened glass; Glass damage; Glass lasers; Laser damage; Q-switched; *SP372*, pp. 40-45. **SP305-4.**

Surface damage; Surface finish; Surface grinding; Wear mechanism; Alumina; Cylindrical grinding; Diamond grinding wheel; Electron microscopy; Removal mechanism; *SP348*, pp. 99-112. **SP305-4.**

Surface damage; Switched lasers; Thermal stresses; Extrinsic damage; Intrinsic damage; Laser materials; *12569*. **SP305-4.**

Surface damage; Thin film coating; HF treatment; Inclusion damage; Passive and active testing; Platinum inclusion; *SP372*, pp. 3-10. **SP305-4.**

Surface damage; Threshold increase; Threshold measurement; Ion beam polishing; Sapphire; *SP372*, pp. 55-57. **SP305-4.**

Surface damage; Wavelength dependence of damage; Breakdown starting time; Electron avalanche; Probabilistic nature of damage; *SP372*, pp. 58-69. **SP305-4.**

Surface defects; Surface segregation; Thin film adhesion; Thin film circuit imperfections; Aluminum oxide; Auger electron spectroscopy; Crystallographic texture; Ion microprobe; Scanning electron microscopy; Substrates; *SP348*, pp. 271-290. **SP305-4.**

Surface detection; Dimensional metrology; Displacement measurement; Microscope; Noncontact sensing; Optical surface probe; *12423*. **SP305-4.**

Surface effects in oxidation; Termination rates; Transition state for termination; Acetylene reaction with  $O_2$ ; Activation energy for oxidation; Chain lengths in oxidation; Elementary steps in oxidation; Epoxidation; Gas-phase oxidation; *SP357*, pp. 121-129. **SP305-4.**

Surface energy; Absorption potential; Charge density; Metal-vacuum interface; Platinum; *SP323*, pp. 359-373. **SP305-4.**

Surface evenness; Test methods; Warmth to touch; Colour fastness; Flatness; Flooring; Indentation; Performance requirements; Properties; Quality classes; Rolling load; *SP361*, Vol. 1, pp. 601-612. **SP305-4.**

Surface fillers; Vinyl toluene-acrylate; Vinyl toluene-butadiene; Absorbance ratio method; Infrared spectroscopy; Resins; Styrene-butadiene; *12417*. **SP305-4.**

Surface finish; Doping; GaAs; Laser induced damage; Photoconductivity; Surface; *SP372*, pp. 70-74. **SP305-4.**

Surface finish; Surface grinding; Wear mechanism; Alumina; Cylindrical grinding; Diamond grinding wheel; Electron microscopy; Removal mechanism; Surface damage; *SP348*, pp. 99-112. **SP305-4.**

Surface finish; Surface physics; Tunneling; Field emission; MVM tunneling; *12836*. **SP305-4.**

Surface finish; Surface profile; Microscope; Microtopography; Single-crystal surface; Surface; *12837*. **SP305-4.**

Surface finish; Surface treatments; Weibull; Alumina; *SP348*, pp. 377-388. **SP305-4.**

Surface finish; Tensile strength; Alumina; Diamond grind *SP348*, pp. 391-397. **SP305-4.**

Surface finish; Twins; Carbides; Glass; ion beam sputter; Nitrides; Oxides; RF sputtering; Strength; *SP348*, pp. 187. **SP305-4.**

Surface finish analysis; Surface morphology; Surface roughness; Surface topography; Three-dimensional images; Cera Materials; CESEMI (Computer evaluation of scanning electron microscope images); Digital magnetic tape recording; *SP348*, pp. 309-316. **SP305-4.**

Surface finish in grinding; Surface integrity in ground surface; Wheel dressing; Abrasive wear parameter; Grinding; Material removal parameter; Principles of grinding; *SP348*, pp. 59. **SP305-4.**

Surface finishing; Machining; Machining costs; Methods of machining and finishing; Surface-dependent properties; *SP348*, pp. 1-3. **SP305-4.**

Surface flaws; Surface treatments; Thermal shock; Abrasive machining; Alumina ceramic; Chemical polishing; Crack healing; Delayed fracture; Glazing; Humidity; Refractive strength; *SP348*, pp. 353-363. **SP305-4.**

Surface free energy; Undercooling; Activity; Chain fold; Critical equilibrium dissolution temperature; Equilibrium melting temperature; Free energy of crystallization; Lattice thickness; Nucleation rate; *12744*. **SP305-4.**

Surface grinding; Ceramics; Etch pits; Fracture; Grinding damage; Plastic deformation; Surface condition; *SP348*, pp. 317-332. **SP305-4.**

Surface grinding; Wear mechanism; Diamond grinding wheel; Electron microscopy; Removal mechanism; Surface damage; Surface finish; *SP348*, pp. 99-112. **SP305-4.**

Surface hardened; Temporal dimensional stability; Ultrastructure; Gage blocks; Maraging steel; Nitriding; Precision equipment; *11596*. **SP305-2.**

Surface hardening; Crack initiation; Fatigue; Residual stress; Service failures; Stress concentration; *10507*. **SP305-1.**

Surface hardening; Tempering; Tool steels; Annealing; Cold hardening; Chemical composition; Hardening; Heat treatment; Ni-maraging steels; Normalizing; Stainless steels; Structural steels; *Mono. 88*. **SP305.**

Surface hardness; Compressive strength; Concrete; Flexure strength; Formwork removal; Nondestructive testing; *NBS 75-729*. **SP305-7.**

Surface instrumentation; Surface metrology; Topography; Tunneling; Diffraction grating; Field emission; Micrometrology; Profile; Surface; *12919*. **SP305-4.**

Surface integrity; Surface questionnaire; Surface survey; Characterization; Surface finish; *15464*. **SP305-7.**

Surface integrity in ground surfaces; Wheel dressing; Abrasive wear parameter; Grinding; Material removal parameter; Principles of grinding; Surface finish in grinding; *SP348*, pp. 71. **SP305-4.**

Surface ionization; Surface lifetimes; Alkali atoms; Desorption energies; Modulated beam method; Polycrystalline molybdenum; *12419*. **SP305-4.**

Surface layer; Adsorbed polymer; Deformation; Fold surface; Gold decoration; Polymer crystals; Poly(oxy)methylene; *J79A No. 5*, 609-611 (1975). **SP305-7.**

Surface layer;  $\theta$ -point; Trains; Configurations; Excluded volume effect; Loops; Polymer adsorption; *12240*. **SP305.**

Surface layers; Absorbed dose; Absorbed-energy distribution; Electron beams; Energy deposition; Silicon detectors; *12919*. **SP305-3.**

Surface layers;  $CaF_2$ ; Conductivity; Crystals; Defects; Dielectric relaxation; Electrode capacitance; *J71A5-355-362* (1967). **SP305.**

Surface lifetimes; Alkali atoms; Desorption energies; Modulated beam method; Polycrystalline molybdenum; Surface ionization; *12419*. **SP305-4.**



ce measurement techniques; Corrosion; Ellipsometry; Film thickness; 9860. SP305-1.  
 ce metrology; Topography; Tunneling; Diffraction grating; Field emission; Micrometrology; Profile; Surface; Surface instrumentation; 12919. SP305-4.  
 ce migration; Carbon monoxide; Desorption; Field emission; Monoxide; Rhenium; Ruthenium; 11819. SP305-3.  
 ce modification; Tissue surfaces; Bone; Chemical grafting; Iagen; Ratskin; 15185. SP305-7.  
 ce molecule; Tight binding calculation; W substrate; Density of states at the adsorbate; Energy levels; S state adsorption; 13671. SP305-5.  
 ce morphology; Surface reaction; Bromine; Electron micrograph; Nickel; Single crystal; 10489. SP305-1.  
 ce morphology; Surface roughness; Surface topography; Three-dimensional images; Ceramic Materials; CESEMI computer evaluation of scanning electron microscope images; Digital magnetic tape recordings; Profilometer; 1448, pp. 309-316. SP305-4.  
 ce orientation; Contact radius; Correction factors; Silicon; Reading resistance; SP400-10, pp. 137-144. SP305-6.  
 ce parameters; Characterization; Instruments; Measurement, statistical surface parameters; Surface finish; 15368. SP305-7.  
 ce perfection;  $\alpha$ -Al<sub>2</sub>O<sub>3</sub>; Annealing; Flame-polishing; Reinforcements; Ruby; Sapphire; Strength; SP348, pp. 213-232. SP305-4.  
 ce photovoltage; Absorption coefficients; Epitaxial silicon; Minority carrier diffusion length; Minority carrier lifetime; Semiconductor characterization; 13071. SP305-5.  
 ce photovoltage; Bibliography; Diffusion length; Diode recovery; Excess carrier lifetime; Measurement methods; Photoconductive decay; Photoconductivity; Photomagneto-electric effect; Recombination of excess carriers; Semiconductors; TN465. SP305-1.  
 ce photovoltage; Carrier lifetime; Diode recovery time; Germanium; Photoconductive decay; Photomagneto-electric effect; Silicon; 10584. SP305-1.  
 ce photovoltage; Carrier lifetime; Gallium arsenide; Gold-plated silicon; Resistivity; Silicon; 14606. SP305-6.  
 ce physics; Adsorption; Atomic spectroscopy; Electron tunneling; 11737. SP305-2.  
 ce physics; Adsorption; Electron gas; Impurities; 12035. SP305-3.  
 ce physics; Chemisorption; Electronic properties of materials; Field emission; 13633. SP305-5.  
 ce physics; Chemisorption; Impurities; 12317. SP305-3.  
 ce physics; Electrons in solids; Electron tunneling; Field emission; Many-body theory; 11312. SP305-2.  
 ce physics; Ellipsometry; Field electron emission microscopy; Low energy electron diffraction; 10690. SP305-6.  
 ce physics; Tunneling; Adsorption; Field emission; 14484. SP305-6.  
 ce physics; Tunneling; Attenuation length; Electron gas theory; Field emission; 12154. SP305-3.  
 ce physics; Tunneling; Band structure; Density of states; Field emission; 11311. SP305-2.  
 ce physics; Tunneling; Field emission; MVM tunneling; Surface finish; 12836. SP305-4.  
 ce plasma; Time resolved laser damage; Laser induced thermal damage; Optical probe; SP387, pp. 133-137. SP305-5.  
 ce plasmas; Entrance and exit surface damage; Sapphire; Spatial and temporal plasma resolution; Streak camera experiments; SP372, pp. 46-54. SP305-4.  
 ce plasmons; Attenuation length; Inelastic electron scattering; 14984. SP305-7.  
 ce plate testing; Temperature measurement; Wavelength measurement; Double stars, measurement; Expansion mea-

surements; Lens and mirror testing; Optical engineering; Optical surfaces; Precision measurements; Refractive indices; 10599. SP305-1.  
 Surface potential; Band population effects; Electrorreflectance; Fermi level shifts; Indium antimonide (InSb); Optical transitions; SP323, pp. 407-410. SP305-4.  
 Surface potential; Ellipsometry; Low energy electron diffraction; Metal oxidation; Oxidation kinetics; Oxide structure; 14426. SP305-6.  
 Surface potential barrier; Tunneling; Indium; Semiconductors; SrTiO<sub>3</sub>; Strontium titanate; Superconductivity; 11925. SP305-3.  
 Surface preparation; Adhesion; Adhesive properties; Adhesive selection; Adhesives, bonding; C153. SP305-2.  
 Surface preparation; Analysis; Device processing; Diffusion; Epitaxy; Junctions; Resistivity; SP337. SP305-3.  
 Surface preparation; Bevel polishing; p-type silicon; Resistivity depth profiling; Resistivity radial profiling; Semiconductors; Spreading resistance measurements; Surface effects; SP400-10, pp. 249-256. SP305-6.  
 Surface preparation; Surface refinishing; Cost analysis; Hazard elimination; Housing; Lead based paint; Materials; 13767. SP305-5.  
 Surface preparation; Surface refinishing; Water wash paint removal; Cost analysis; Housing; Lead based paint; Lead poisoning; NBSIR 74-438. SP305-6.  
 Surface preparation; Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant; Lacquer; Latex; Multicolor; Organic coatings; Paint; Pigments; Polymers; Properties; Resins; B557. SP305-1.  
 Surface profile; Microscope; Microtopography; Single-crystal surface; Surface; Surface finish; 12837. SP305-4.  
 Surface profile; Microscope; Microtopography; Single-crystal surface; Surface; Surface finish; 14523. SP305-6.  
 Surface properties; Activation energy; Field emission microscopy; Nickel; Platinum; Surface-diffusion; 10186. SP305-1.  
 Surface properties; Aluminum oxide; Bending; Brittleness; Ceramics; Electronics; Flexural strength; Fractures (materials); Mechanical tests; Modulus of rupture tests; Substrates; 12861. SP305-4.  
 Surface pyrolysis; Surface temperature measurement; Thermal degradation; Combustion; Flammability; Kinetics; Polymer burning; Pyrolysis; Rapid heating; SP357, pp. 185-192. SP305-4.  
 Surface questionnaire; Surface survey; CIRP; Surface; Surface finish; Surface integrity; 15464. SP305-7.  
 Surface reaction; Bromine; Electron micrograph; Nickel; Single crystal; Surface morphology; 10489. SP305-1.  
 Surface reaction; Fluorine; High temperature; Kinetics; Mass spectrometry; Nickel; 9374. SP305.  
 Surface reaction; Tantalum; Activation energy; Carbon monoxide; High temperature; Mass spectrometry; 11115. SP305-2.  
 Surface reactions; Interstellar molecules; Low temperature chemistry; 14667. SP305-6.  
 Surface recombination lifetimes; Laser damage; Silicon photodetector; Surface damage; SP387, pp. 107-113. SP305-5.  
 Surface refinishing; Cost analysis; Hazard elimination; Housing; Lead based paint; Materials; Surface preparation; 13767. SP305-5.  
 Surface refinishing; Water wash paint removal; Cost analysis; Housing; Lead based paint; Lead poisoning; Surface preparation; NBSIR 74-438. SP305-6.  
 Surface regions; Transmission electron microscopy; Twinning; Abrasion; Alumina; Annealing; Dislocations; Electron microscopy; Indentation; Plastic deformation; 12498. SP305-4.  
 Surface replica; Surface texture; Alumina substrates; SP348, pp. 301-307. SP305-4.

- Surface roughness; Autocovariance laser damage statistical characterization of surface; FECO interferometry; Scattered light; *SP414*, pp. 157-162. **SP305-6.**
- Surface roughness; Bubble collapse; Cavitation; Cavitation damage; Cavitation erosion prevention; Erosion; *SP394*. **SP305-6.**
- Surface roughness; Calibration; Economic dimensions; National Measurement System; Surface finish; *15395*. **SP305-7.**
- Surface roughness; High temperature; Melting; Niobium; Normal spectral emittance; *13860*. **SP305-6.**
- Surface roughness; High-speed measurements; High temperature; Melting; Niobium; Radiance temperature; *J.77A No. 3*, 333-339 (1973). **SP305-5.**
- Surface roughness; Light scattering; Sinusoidal grating diffraction; Spatial spectral density function; *SP414*, pp. 163-168. **SP305-6.**
- Surface roughness; Surface topography; Three-dimensional images; Ceramic Materials; CESEMI (Computer evaluation of scanning electron microscope images); Digital magnetic tape recordings; Profilometer; Profilometer rasters; *SP348*, pp. 309-316. **SP305-4.**
- Surface roughness; Thermodynamic properties; Associated vapors; Graphite; Heat capacity; Molybdenum; Molybdenum pentafluoride; Niobium; Radiance temperature; Spectral emittance; *NBSIR 73-280*. **SP305-6.**
- Surface roughness; Thin films; Far ultraviolet; Optical polishing; Scattering; Substrates; *9812*. **SP305-1.**
- Surface science; Thin films; Laser damage; *SP372*, pp. 75-83. **SP305-4.**
- Surface segregation; Thin film adhesion; Thin film circuit imperfections; Aluminum oxide; Auger electron spectroscopy; Crystallographic texture; Ion microprobe; Scanning electron microscopy; Substrates; Surface defects; *SP348*, pp. 271-290. **SP305-4.**
- Surface self-diffusion; Whisker growth; Curtis approximation; Dittmar-Neumann approximation; Mean stay time; Stefan problem; Surface concentration; *9508*. **SP305.**
- Surface source; "Debris layer"; Edge dislocation; Near-surface source; Screw dislocation; Single crystals; *11546*. **SP305-2.**
- Surface spectroscopy; Chemisorption; Field emission; Ion neutralization; Photoemission; *14978*. **SP305-7.**
- Surface spectroscopy; Electronic characterization; Sub-monolayer films; Surfaces; *13849*. **SP305-6.**
- Surface spectroscopy; Tunneling; Field emission; Field ionization; Ion neutralization; *15095*. **SP305-7.**
- Surface state; Tungsten; Chemisorption; Field emission; Photoemission; Single crystals; Surface electron spectroscopy; *14982*. **SP305-7.**
- Surface states; Adsorption; Energy distribution; Photoemission; *13028*. **SP305-4.**
- Surface states; Tunneling; Field emission; Metals; *12847*. **SP305-4.**
- Surface stress; Grain size; Griffith equation; Petch equation; Thermal expansion anisotropy; Strength; *13211*. **SP305-5.**
- Surface structure; Atomic resolution; Electropolishing of ruthenium; Field evaporation; Field-ion microscopy; Heat of sublimation; Ruthenium; *9936*. **SP305-1.**
- Surface structure; Field evaporation; Field ion microscopy; Hcp metals; *9484*. **SP305.**
- Surface structure; Field evaporation; Field-ion microscopy; Hexagonal close-packed metals; *10167*. **SP305-1.**
- Surface studies; Adsorption of polymers; Adsorption of polymers review; Interface studies; Polymer adsorption; Polymer adsorption review; Review of polymer adsorption; *10095*. **SP305-1.**
- Surface study; Carbon on tungsten; Field emission microscopy; Low-energy electron diffraction; *11396*. **SP305-2.**
- Surface survey; CIRP; Surface; Surface finish; Surface integrity; Surface questionnaire; *15464*. **SP305-7.**
- Surface temperature; Temperature measurement; Temperature sensitive phosphor; Thermographic phosphor; Transistor- $\alpha$  temperature; *TN591*. **SP305-3.**
- Surface temperature measurement; Thermal degradation; Combustion; Flammability; Kinetics; Polymer burning; Pyrolysis; Rapid heating; Surface pyrolysis; *SP357*, pp. 185-192. **SP305-4.**
- Surface tension; Aqueous solutions; Cylinder; Ice; Solute; Solubility; *11889*. **SP305-3.**
- Surface tension; Binary mixtures; Density; Organic liquids; *11710*. **SP305-2.**
- Surface tension; Crystal growth; Ice; Interface kinetics; Morphological stability; Sodium chloride; *13895*. **SP305-6.**
- Surface tension; Cylinder; Ice; Interface kinetics; Morphological stability; Solute diffusion; *J.73A No. 1*, 65-68 (1969). **SP305-1.**
- Surface tension; Cylinder; Ice; Morphology; Non-linear; Stability; *12386*. **SP305-4.**
- Surface tension; Surfactant; Association colloid; Bibliography; CMC; Colloid; Colloidal electrolyte; Critical concentration; Critical micelle concentration; Detergent; Hydrophobic bonding; Kraft point; Long chain compounds; Micelle; *NSRDL NBS36*. **SP305-3.**
- Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed point; Heat transfer coefficients; Helium 4; Index of refraction; *TN631*. **SP305-5.**
- Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed point; Heat transfer coefficients; Hydrogen; Index of refraction; *TN617*. **SP305-4.**
- Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed point; Heat transfer coefficients; Helium 4; Index of refraction; *TN622*. **SP305-4.**
- Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed point; Heat transfer coefficients; Index of refraction; Joule-Thomson; *TN384*. **SP305-3.**
- Surface tension; Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed point; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; *TN648*. **SP305-6.**
- Surface tension; Thermodynamics of molten salts; Critical evaluated data; Equilibrium electrochemical cells; Excess entropies; Excess Gibbs free energies; Gibbs free energies; Molten salt mixtures; Molten salts; *NSRDL-NBS28*. **SP305-1.**
- Surface tension; Thermodynamics of liquids; Evaluated data; Liquids; *J. Phys. Chem. Ref. Data* 1, No. 4, 841-1010 (1972). **SP305-6.**
- Surface tension; Viscosity; Chlorides; Data compilation; Density; Electrical conductance; Molten salt mixtures; Standard reference data; *J. Phys. Chem. Ref. Data* 4, No. 4, 871-117 (1975). **SP305-7.**
- Surface tension; Viscosity; Data compilation; Density; Electrical conductance; Molten salt mixtures; Nitrates; Nitrites; Standard reference data; *J. Phys. Chem. Ref. Data* 1, No. 3, 581-746 (1972). **SP305-6.**
- Surface tension; Viscosity; Data compilation; Density; Electrical conductance; Fluorides; Molten salt mixtures; Standard reference data; *J. Phys. Chem. Ref. Data* 3, No. 1, 1-11 (1974). **SP305-6.**
- Surface tension; Water; Crystal growth; Cylinder; Ice; Morphological stability; *11321*. **SP305-2.**

Surface tension; Water; Cylinder; Heat flow; Ice; Interfacial free energy; Perturbations; Stability; 10973. SP305-2.

Surface tension; Water; Cylinder; Heat flow; Ice; Morphology; Perturbations; Stability; 10974. SP305-2.

Surface tension; 3-methylpentane; Binary liquid mixtures; Capillary rise; Coexistence curve; Critical phenomena; n-Pentane; 11666. SP305-2.

Surface texture; Alumina substrates; Surface replica; SP348, p. 301-307. SP305-4.

Surface texture measurement; Surface texture parameters; Vertical resolution; Electron microscopes; Horizontal resolution; Optical instruments; Stylus instruments; 15613. SP305-7.

Surface texture parameters; Vertical resolution; Electron microscopes; Horizontal resolution; Optical instruments; Stylus instruments; Surface texture measurement; 15613. SP305-7.

Surface topography; Three-dimensional images; Ceramic materials; CESEMI (Computer evaluation of scanning electron microscope images); Digital magnetic tape recordings; Profilometer; Profilometer rasters; Quantitative characterization; SP348, p. 309-316. SP305-4.

Surface treatment; Ceramic machining; Ceramics; Mechanical effects of machining; Removal and shaping of ceramics; SP348. SP305-4.

Surface treatment;  $\text{LiNbO}_3$ ; 1.06  $\mu\text{m}$ ; Oxygen deficiency; Surface damage; SP414, p. 131-134. SP305-6.

Surface treatment; Thermal shock; Abrasive machining; Alumina ceramic; Chemical polishing; Crack healing; Delayed fracture; Glazing; Humidity; Refracting; Strength; Surface flaws; SP348, p. 353-363. SP305-4.

Surface treatments; Weibull; Alumina; Surface finish; SP348, p. 377-388. SP305-4.

Surface vibrations; Collective correlations; Collective intermediate structure; Dipole vibrations; Giant resonance; Particle-hole structure; Photoabsorption; 10634. SP305-1.

Surface water analysis; Filtration losses; Metallic ions; Pollution monitoring; Rainwater analysis; Sample stability; SP422, p. 33-648 (Aug. 1976). SP305-8.

Surface absorption; Acoustic probe techniques; Infrared window laser absorption; KCl absorption; Laser induced damage; SP435, p. 157-163 (Apr. 1976). SP305-8.

Surface absorption; Alkali-halide; KCl; Laser windows; Optical figure; Polishing; Scattered light; SP435, p. 20-28 (Apr. 1976). SP305-8.

Surface absorption; Bulk absorption; CO laser; HF laser; Infrared laser window materials; Multiphonon absorption; SP462, p. 50-57 (Dec. 1976). SP305-8.

Surface absorption coefficients; Transparent materials; Bulk absorption coefficients; Fourier amplitudes; Gas pressure; Heat transfer; Phase shifts; Photoacoustic; 16558. SP305-8.

Surface adsorption; Biopolymers; Helix-coil transition; Phase transitions in biopolymers; Self-assembly; Structural transformations; 15721. SP305-8.

Surface analysis; Auger spectrometry; Electron microprobe analysis; ESCA; Ion scattering; Secondary ion mass spectrometry; SP422, p. 541-573 (Aug. 1976). SP305-8.

Surface analysis; CARISMA program; Ion microprobe mass analysis; Local thermodynamic equilibrium model; Quantitative analysis; Secondary ion mass spectrometry; 15862. SP305-8.

Surface analysis; X-ray photoelectron spectroscopy; Auger electron spectroscopy; Depth impurity profiling; Ion implantation; Ion sputtering; Microelectronic materials; Rutherford backscattering; Secondary ion mass spectrometry; Silicon; Silicon dioxide; 15739. SP305-8.

Surface analysis; X-ray photoelectron spectroscopy; Auger spectroscopy; Depth profiles; Electron beam induced imaging; ESCA; Insulator films; Interface characteristics; Internal photoemission; Ion scattering spectroscopy; Nuclear resonance profiling; Photodepopulation; SP400-23. SP305-8.

Surface characterization; Surface temperature; Al mirrors; Auger spectroscopy; Damage morphology; Electron emission; Electron imaging; Ion emission; Laser-induced damage; SP435, p. 207-215 (Apr. 1976). SP305-8.

Surface characterization; Wear life; Antimony trioxide; Friction; Molybdenum disulfide; Spin axis gas bearings; Sputtered coatings; SP452, p. 177-186 (Sept. 1976). SP305-8.

Surface chemistry; Tungsten; X-ray photoelectron spectroscopy; Carbon dioxide; Carbon monoxide; Chemisorption; Formaldehyde; Oxygen; Physisorption; 16085. SP305-8.

Surface chemistry lubrication; Chemisorption; Corrosion preventives; Inhibitor additives; LOX compatible greases; Nonreactive lubricants; Rust inhibited perfluoro greases; SP452, p. 106-119 (Sept. 1976). SP305-8.

Surface composition; 10.6  $\mu\text{m}$ ;  $\text{As}_2\text{S}_3$ ; Coating deposition; Index of refraction; Laser windows; SP435, p. 244-247 (Apr. 1976). SP305-8.

Surface contamination; High purity metals; Inhomogeneity; Microsegregation; Sampling; SP422, p. 747-755 (Aug. 1976). SP305-8.

Surface coordinative unsaturation; Catalytic hydrogenation; Catalytic oxidation; Chemisorption; Cus; Heterogeneous catalysis; SP455, p. 155-166 (Nov. 1976). SP305-8.

Surface damage; Surface roughness; Thin films; Damage thresholds; Laser damage; Refractive index; SP435, p. 289-295 (Apr. 1976). SP305-8.

Surface damage; Surface roughness; Surface structure; Thin films; Ultrasonic cleaning; Damage thresholds; Fused silica; Ion polishing; SP435, p. 305-320 (Apr. 1976). SP305-8.

Surface damage; Thin films; Threshold; Damage threshold; Etching; Flame polishing; Fused silica; Hydroxyl; Ion polishing; Polishing; Roughness; SP462, p. 310-314 (Dec. 1976). SP305-8.

Surface damage; 10.6  $\mu\text{m}$  absorption; 10.6  $\mu\text{m}$  optical components; Dielectric coatings; Infrared laser windows; Laser heating of metal surfaces; Laser mirrors; Pulsed  $\text{CO}_2$  laser damage; SP462, p. 181-188 (Dec. 1976). SP305-8.

Surface density of states; Transfer Hamiltonian; Field emission; 16418. SP305-8.

Surface density of states; Tungsten; Field ion energy distribution; Field ionization; 15752. SP305-8.

Surface effect; Accuracy; Activation analysis; Charged particle irradiation; Diffusion; Etching; Metals; Neutron irradiation; Recoil; SP422, p. 1165-1171 (Aug. 1976). SP305-8.

Surface effects; Electron beam damage; Electron beam energy deposition; Integrated circuits; Ionizing radiation effects; Scanning electron microscope; 15786. SP305-8.

Surface energy type I superconductors; Cadmium; Condensation energy; Demagnetization coefficient; Fluctuations; Inhomogeneous superconductor; Intermediate state; Superconducting-normal transition; Superconductor; 16450. SP305-8.

Surface excitons; Bulk excitons; Electron loss spectroscopy; Ionic crystals; Madelung potential;  $\text{Mg}^+$ ;  $\text{Mg}^{2+}$ ;  $\text{MgO}$ ; Stark spectrum; SP455, p. 59-65 (Nov. 1976). SP305-8.

Surface excitons; Surface states; Transition-metal oxides; Adsorption; Electron spectroscopy; Ligand-field splitting; SP455, p. 133-138 (Nov. 1976). SP305-8.

Surface figure; Blur circle; Circular diffraction grating; Diamond-turned mirrors; Diffraction pattern; Machine cusp; Scattered light; SP435, p. 57-65 (Apr. 1976). SP305-8.

Surface finish; Surface roughness; Technology assessment; Economic factors; Measurement; Surface; NBSIR 75-927. SP305-8.

Surface finish; Surface roughness measurement; Surface; 16140. SP305-8.

Surface flame spread; Corridor fire test; Interior finish material; Intumescent coating; Life safety; Mobile home; Smoke detector; NBSIR 76-1021. SP305-8.

Surface microtopography; Surface roughness; Surface texture; Systematic error; Amplitude density function; Arithmetic average; Autocorrelation function; Average wavelength; Kurtosis; Minicomputer software; Random error; Skewness; *TN902*. **SP305-8.**

Surface physics and chemistry; Catalysis; Electrocatalysis; Electrochemistry; Electrodes; Fuel cells; *NBSIR 76-1049*. **SP305-8.**

Surface pitting; Abrasive wear; Adhesive wear; Gear failure; Machine component failure; Mechanical failure; *SP423*, pp. 55-66 (Apr. 1976). **SP305-8.**

Surface plasmons; Chemisorption; Photoemission; Relaxation energy; *15857*. **SP305-8.**

Surface potential; Blood protein adsorption; Conformation adsorbed proteins; Ellipsometry; *16396*. **SP305-8.**

Surface processes; Atomic layers; Chemisorption; Cyclic voltammetry; Electrochemical adsorption; Monolayers; *SP455*, pp. 107-124 (Nov. 1976). **SP305-8.**

Surface properties; Thermal quantities; Time and frequency; Acoustics; Atomic properties; Economics; Electrical quantities; Ionizing radiation; Mechanical quantities; National measurement system; Optical quantities; *NBSIR 75-947*. **SP305-8.**

Surface reactions; Anodic decomposition; Cathodic decomposition; Electrochemistry; Inorganic bronze electrodes; Metal electrodes; Semiconductor electrodes; Stability, surface layers; *SP455*, pp. 267-280 (Nov. 1976). **SP305-8.**

Surface reflection topography; Transmission topography; X-ray diffraction topography; Crystal perfection; Czochralski growth; Domain walls; Magnetic domains; Nickel single crystals; *16503*. **SP305-8.**

Surface roughness; Auger analysis; Diamond-turned metal mirrors; Laser damage; Light scattering; Optical absorption; *SP462*, pp. 158-164 (Dec. 1976). **SP305-8.**

Surface roughness; Surface structure; Thin films; Ultrasonic cleaning; Damage thresholds; Fused silica; Ion polishing; Surface damage; *SP435*, pp. 305-320 (Apr. 1976). **SP305-8.**

Surface roughness; Surface texture; Systematic error; Amplitude density function; Arithmetic average; Autocorrelation function; Average wavelength; Kurtosis; Minicomputer software; Random error; Skewness; Surface microtopography; *TN902*. **SP305-8.**

Surface roughness; Technology assessment; Economic factors; Measurement; Surface; Surface finish; *NBSIR 75-927*. **SP305-8.**

Surface roughness; Thin films; Damage thresholds; Laser damage; Refractive index; Surface damage; *SP435*, pp. 289-295 (Apr. 1976). **SP305-8.**

Surface roughness; Transmittance; Bibliography; Emission; Heat transfer; Measurement techniques; Periodic surfaces; Polarization; Random surfaces; Reflectance; Reflectance of coherent radiation; Scattering; Scattering theory; *J. Res. 80A* No. 2, 207-220 (1976). **SP305-8.**

Surface roughness measurement; Surface; Surface finish; *16140*. **SP305-8.**

Surface scattering; Tissue characterization; Ultrasonic spectroscopy; Ultrasound diagnosis; Acoustic impedance; Bragg diffraction; Computer processing; Frequency-dependent attenuation; Internal scattering; Myocardial infarction; Scattering; *SP453*, pp. 167-196 (Oct. 1976). **SP305-8.**

Surface states; Titanium dioxide; Transition-metal oxides; Defect states; *d*-electrons; Electrolyte electrode reactions; *SP455*, pp. 125-131 (Nov. 1976). **SP305-8.**

Surface states; Transition metal oxides; Catalysis; Chemisorption; Cluster states; Electronic structure; Energy bands; Perovskites; *SP455*, pp. 21-52 (Nov. 1976). **SP305-8.**

Surface states; Transition metal carbide; Adsorption; Catalysis; Electronic structure; *SP455*, pp. 87-92 (Nov. 1976). **SP305-8.**

Surface states; Transition-metal oxides; Adsorption; Electronic spectroscopy; Ligand-field splitting; Surface excitons; *SP435*, pp. 133-138 (Nov. 1976). **SP305-8.**

Surface structure; Thin films; Ultrasonic cleaning; Damage thresholds; Fused silica; Ion polishing; Surface damage; Surface roughness; *SP435*, pp. 305-320 (Apr. 1976). **SP305-8.**

Surface temperature; Al mirrors; Auger spectroscopy; Damage morphology; Electron emission; Electron imaging; Ion emission; Laser-induced damage; Surface characterization; *SP435*, pp. 207-215 (Apr. 1976). **SP305-8.**

Surface temperature; Built-up roofing; Insulation; Performance; Radiative cooling; Roofing; Solar heating; *NBSIR 76-1049*. **SP305-8.**

Surface tension; Alloys; Anisotropy; Interface kinetics; Solvation; Stability; *16213*. **SP305-8.**

Surface tension; Combustion models; Flame spread; Fluid mechanics; Laser doppler velocimetry; Liquid fuels; Solid fuels; *NBSIR 76-79*. **SP305-8.**

Surface tension; Thermocapillarity; Convection; Drops; Menisci; *16341*. **SP305-8.**

Surface tension; Van der Waals collection; Verschaffelt; Criticality curves; Critical exponents; Fluid critical point; Henry; Kamerling-Onnes collection; *16372*. **SP305-8.**

Surface texture; Systematic error; Amplitude density function; Arithmetic average; Autocorrelation function; Average wavelength; Kurtosis; Minicomputer software; Random error; Skewness; Surface microtopography; Surface roughness; *TN902*. **SP305-8.**

Surface texture measurement; Amplitude density function; Arithmetic average; Autocorrelation function; Linear least squares fit; Machine language; Minicomputer software; *NBSIR 75-924*. **SP305-8.**

Surface waves; Glass; Glass strengthening; Ion exchange; Rayleigh waves; *16282*. **SP305-8.**

Surface waves; Green's tensor; Non-local elasticity; Solid mechanics; *SP317*, pp. 747-759. **SP305-3.**

Surface-dependent properties; Surface finishing; Machine tooling; Machining costs; Methods of machining and finishing; *SP435*, pp. 1-3. **SP305-4.**

Surface-diffusion; Surface properties; Activation energy; Photoemission microscopy; Nickel; Platinum; *10186*. **SP305-1.**

Surface-impact resistance; Test methods; Abrasion resistance; Chemical resistance; Cigarette-burn resistance; Cleanability and soiliability; Concentrated static-load capacity; Performance characteristics; Performance level; Sanitary plating fixtures; Scratch resistance; Stain resistance; *BSI*. **SP305-2.**

Surfaces; Adsorption; Adsorption on mercury; Desorption; Polymers; Polystyrene; Radiotracer measurements; Rate of adsorption; *15853*. **SP305-8.**

Surfaces; Adsorption; Chemisorption; Electronic properties of solids; Molecules; *15758*. **SP305-8.**

Surfaces; Alloy theory; Catalysis; Chemisorption; Cu-Ni alloy; *d*-bands; Electron-configuration; Metallurgy; Passivity; Rind model; Saltwater corrosion; *13805*. **SP305-6.**

Surfaces; Angular distributions; Chemisorption; Photoemission; Photoionization; *14233*. **SP305-6.**

Surfaces; Angular distributions; Chemisorption; Photoemission; Photoionization; *14981*. **SP305-7.**

Surfaces; Attenuation lengths; Auger effect; Electron spectroscopy of solids; *14135*. **SP305-6.**

Surfaces; Catalysis; Characterization; Chemisorption; Electrocatalysis; Electrochemistry; Electrode processes; Metals; Photoelectrolysis; Solid electrolytes; *SP455*. **SP305-8.**

Surfaces; Chemisorption; Molecules; *14165*. **SP305-6.**

Surfaces; Cobalt; Grinding; Mössbauer effect; Scattering; *SI* *14451*. **SP305-6.**

Surfaces; Computer simulation; Crystal growth; Face-centered cubic; Roughness; *15144*. **SP305-7.**



ices; Cracks; Flaws; Ion beam milling; Metals; Microscopy; 1862. SP305-7.

ices; Dislocations; Nickel-single crystals; Passive film; alarization; 11758. SP305-2.

ices; Surface spectroscopy; Electronic characterization; monolayer films; 13849. SP305-6.

ices; Textiles; Edges; Fabric construction; Fabric flammability; Fire spread; Flame spread; Flame spread rate; NBS-AR-75-34. SP305-8.

ices; Thin films; Bulk; Electro-absorption; Electron avalanche, laser damage; Local field corrections; Refractive index; SP414, pp. 214-218. SP305-6.

ices; Tungsten; Ultraviolet photoemission; Valence band; origin states;  $\alpha$  states;  $\beta$  states; Adsorption; Carbon; Carbon monoxide; Chemical bonding; Chemisorption; Density dependent transitions; Desorption; Dissociative adsorption; Electronic states; Hydrogen; 16419. SP305-8.

ices; Tunneling; Field emission; 13502. SP305-5.

ices; Tunneling; Field emission; 12192. SP305-3.

ices; Wear; Electron channeling; Iron; Metals; Plastic deformation; 16523. SP305-8.

ices; Wear; Electron channeling; Iron; Metals; Plastic deformation; NBSIR 76-992. SP305-8.

ices; Wear; Wear debris; X-ray analysis; Copper; Electron channeling; Electron microscope; Metals; Particle analysis; Plastic deformation; NBSIR 76-1141. SP305-8.

ices; X-ray photoemission; Chemisorption; ESCA; Field emission; Photoemission; 16454. SP305-8.

ices; Zeta-potential; Electrokinetic potential glass; Interface; Liquid/solid interface; Solid/liquid interface; 14732. SP305-7.

ices; Zinc selenide; Copper; Molybdenum; Optician; polishing; SP435, pp. 10-13 (Apr. 1976). SP305-8.

actant; Association colloid; Bibliography; CMC; Colloid; Colloidal electrolyte; Critical concentration; Critical micelle concentration; Detergent; Hydrophobic bonding; Krafft point; long chain compounds; Micelle; Paraffin chain salts; SRDS-NBS36. SP305-3.

ages; Current; Time delay; Electronic circuit breaker; Mechanical load protection; 11543. SP305-2.

ages; Cooldown; Cryogenic fluid flow; Heat transfer; Transfer pelines; Transients; 11780. SP305-2.

ages; Transient flow; Water hammer; Computer modeling; cooldown; Cryogenic flow; Stresses; NBSIR 74-366. SP305-4.

ical bone cement; Biomaterial; Bone cement; Orthopaedic material; Poly(methyl methacrylate); Specification; 15191. SP305-7.

ical bone cement; Total hip replacement, cement; Acrylic resin; Cement; Medical materials; Orthopedic materials; poly(methylmethacrylate, self-curing; 15164. SP305-7.

ical implants; Cardiac pacemaker; Data banks; Failure analysis; Failure modes; Hermeticity; Hybrid devices; Leak testing; Measurement technology; Microelectronics; MOS devices; Process control; Reliability; Semiconductor devices; P400-28. SP305-8.

ical implants; Testing; Thermal transients; Architectural heritage; Fire; Guardrail; High-capacity; Mathematics; Mercury; Performance standard; Pressure transducers; SRM; NIM/NBS 60, No. 8, 1-24 (1976). SP305-8.

ical procedure; Histological evaluation; Nerve axons; P415, pp. 99-101. SP305-7.

rogate specimens; Trace elements; Accuracy and precision; Clinical chemistry; Quality control; SP422, pp. 35-40 (Aug. 1976). SP305-8.

round color; Three components color theory; Chromatic induction; Color; Contrast; Crispness; Opponent color theory; 411. SP305.

Surveillance; Surveillance cameras; Cameras; Demand cameras; Employee theft; Fixed surveillance; Motion picture surveillance; Robbery; Sequence cameras; Shoplifting; 14923. SP305-7.

Surveillance; Tamper-resistant; Television; Safeguards; NBSIR 75-707. SP305-7.

Surveillance cameras; Cameras; Demand cameras; Employee theft; Fixed surveillance; Motion picture surveillance; Robbery; Sequence cameras; Shoplifting; Surveillance; 14923. SP305-7.

Surveillance equipment; Alarm systems; Cameras; Police; Police equipment; Security equipment; NBSIR 73-213. SP305-6.

Surveillance of local units of voltage; Voltage standards; Voltage transport standards; Unit of voltage; Regional maintenance of the volt; Standard cells; 14935. SP305-7.

Survey; ADP; COBOL; Federal ADP installations; Federal Standard COBOL; Impact evaluation; Sample; Software management; NBSIR 76-1100. SP305-8.

Survey; AID; Development assistance; Economics; Ecuador; Less developed countries; Measurement services; Review; Standardization; NBSIR 75-785. SP305-7.

Survey; Annotated bibliography; Binary systems; Cryogenic fluid mixtures; Liquid-vapour equilibria; Multicomponent systems; 13753. SP305-5.

Survey; Antenna gain; Attenuation; Field strength; Impedance; Measurement; Microwave; Noise; Phase shift; Power; Progress; Reflection coefficient; Review; Standards; 9365. SP305-1.

Survey; Atom; Collisions; Electron; Helium; Hydrogen; 11711. SP305-2.

Survey; Automated measurements; Computer; Concepts; Reliability; State-of-the-art; 14738. SP305-7.

Survey; Building construction; Detectors; Flame spread; Furnishings; Interior finishes; Noncombustible; Smoke development; Sprinklers; TN861. SP305-7.

Survey; Census Bureau; Consumer Product Safety Commission; Data; Fire; Households; Injury; Loss; National Fire Data System; National Fire Survey; 15656. SP305-7.

Survey; Compatibility; Materials; Metals; Oxygen; Safety; 14215. SP305-6.

Survey; Compatibility data; High pressure; Oxygen; Safety; 13565. SP305-5.

Survey; Computer codes; Multi-group data; SP425, pp. 848-854. SP305-7.

Survey; Cryogenics; Materials properties; 12555. SP305-4.

Survey; Data; Experimental facilities; History; Photonic nuclear reactions; Research programs; 13722. SP305-5.

Survey; Isotope ratios; Magnesium; Natural; Relative; 9629. SP305-1.

Survey; Korea; AID; Assistance; Economics; LDC's (less developed countries); Measurement services; Standardization; 13608. SP305-5.

Survey; Lead; Lead paint poisoning; Paints; Poisoning; Retail inventory; Statistics; NBSIR 73-407. SP305-6.

Survey; Technical information sources; Chemical engineering information; Data; Information analysis centers; Information systems; 12710. SP305-4.

Survey; Techniques; Computer simulation; Live and fire loads; Occupancy; Stochastic predictive models; 14102. SP305-6.

Survey; Technology; Cryogenic; Gas industry; Liquefied natural gas; Research; 15468. SP305-7.

Survey; Temperature compensation; Uniformity; Weights and measures; Digital indicators; Drained weight; Laws and regulations; Metrication; Metric conversion; Net weight; Package control; Petroleum products; Scales; SP407. SP305-7.

Survey; Testing; Voice privacy; Intelligibility; LESL; NILEC; Performance standard; Privacy; Scramblers; Speech quality; Speech scramblers; 14714. SP305-6.

Survey; Tire disablement; Tire inflation; Tire loading; Tire pressure gages; Tire use; Tread wear; Accident; Review; *TN528*. SP305-2.

Survey; Transducer; Calibration; Compatibility; Cryogenic; Liquid oxygen; Measurement; Oxygen; Performance; Pressure; *15155*. SP305-7.

Survey; Turkey; AID; Assistance; Economics; LDC's (less developed countries); Measurement services; Standardization; *13476*. SP305-5.

Survey; Ultraviolet; Detectors; NBS; Radiometry; Sources; Standards; *SP456*, pp. 107-110 (Nov. 1976). SP305-8.

Survey; Urban health problems; Housing; Housing survey; Lead; Lead hazard; Lead paint; Lead poisoning; *NBSIR 74-426*. SP305-6.

Survey; Users; American Chemical Society; Chemical and physical properties; Compilation; Data; NSRDS; Office of Standard Reference Data; Questionnaire; *10123*. SP305-1.

Survey; Users; National Standard Reference Data System; Properties data; *14498*. SP305-6.

Survey; Users; Properties data; National Standard Reference Data System; Scientific and technical librarians; Special Libraries Association; *12626*. SP305-4.

Survey; Water hardness; Corrosion; Corrosion control; Metallic piping; Nondestructive evaluation; *NBSIR 75-923*. SP305-8.

Survey design; Health standards; Migrant labor camps; Questionnaire construction; Regulations; *13787*. SP305-5.

Survey of automatic techniques; Swept frequency measurements; Wheatstone Bridge; Automatic network analyzers; Computer-controlled measurement; Magic tee; Microwave measurement methods; Multiple probe devices; Reflectometers; Rotating probe devices; Slotted lines; *Monogr. 151*. SP305-8.

Survey of clocks; Accuracy; Atomic clocks; Clocks; Crystal oscillator; Frequency standards; Stability; *TN662*. SP305-7.

Survey of clocks; Accuracy; Atomic clocks; Clocks; Crystal oscillator; Frequency standards; Stability; *15719*. SP305-8.

Survey of dielectric literature; Dielectric literature; Dielectric literature in 1967; Dielectric properties; Digest of literature on dielectrics; Literature compilation; *11239*. SP305-2.

Survey of hot water use; Domestic hot water systems; Hot water heating; Hot water system design; Hot water usage; *SP361, Vol. 1*, pp. 451-463. SP305-4.

Survey report; Federal libraries; Library automation; *16076*. SP305-8.

Survey techniques; Buildings; Fire loads; Occupancy live loads; Load surveys; Structural engineering; *TN858*. SP305-7.

Survey (wire bond); Testing (wire bond); Thermocompression bonding; Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); *TN726*. SP305-4.

Surveyor; Laser; Lunar distance; *10502*. SP305-1.

Surveys; Blood; Blood lead; Children; Housing; Lead paint; Lead poisoning; *NBSIR 76-1024*. SP305-8.

Surveys; Buildings; Fires; Loads; Safety; *16087*. SP305-8.

Susceptibilities; Bounds; Dielectric; Inequalities; Magnetic; *11197*. SP305-2.

Susceptibility; Alloy; Copper; Cryogenic; Iron; Oxide; Resistivity; Remanance; *16632*. SP305-8.

Susceptibility; Antiferromagnet; Dipolar interactions;  $DyPO_4$ ; Heat capacity; Magnetization; Metamagnet; Phase transition; Shape effects; *12541*. SP305-4.

Susceptibility; Antiferromagnetism; Critical temperature; Dipole-dipole interaction; Erbium phosphate ground state; Heat capacity; Lattice sums; Magnetic; *15866*. SP305-8.

Susceptibility; Chromium methylammonium alum; Crystal field; High-temperature expansion; Specific heat; *12968*. SP305-4.

Susceptibility; Clustering; Critical phenomena; Cu-Ni alloy; Heat treatment; Magnetism; *13709*. SP305-5.

Susceptibility; Copper; Impurities; Magnetism; Quantum interference; *14365*. SP305-6.

Susceptibility; Curie point; Ferromagnetism; Magnetic moment; *11202*. SP305-2.

Susceptibility; Diamagnetism; Light scattering; Molecular diffusion; Organic molecule; Superconductor; *16529*. SP305-8.

Susceptibility; Dipole-dipole interactions; Low temperature salts; Specific heat; *13574*. SP305-5.

Susceptibility; Symmetry changes; Biferrocene; Electronic resonance; *13027*. SP305-4.

Susceptibility; Testing; Transverse electromagnetic; Compatibility; Standard fields; *14725*. SP305-7.

Susceptibility; Thermometer scale; Cerous magnesium nitrate; Dipole system; Low temperature; Paramagnetic salt; Specific heat; *11822*. SP305-3.

Susceptibility; Ultrasonic attenuation; Frequency shift; Heisenberg paramagnet; Specific heat; Spin-diffusion; *12345*. SP305-3.

Susceptibility; Wave functions; Electronic density of states; Hyperfine fields; Knight shift; Nuclear magnetic resonance; *SP223*, pp. 601-642. SP305-4.

Susceptibility; Wave functions; Electronic density of states; Hyperfine fields; Knight shift; Nuclear magnetic resonance; *J.74A No. 4, 569-610 (1970)*. SP305-2.

Susceptibility; Zn; Ag; Al; Alloys; Au; Cd; Cu; Ga; Hg; Hf; Ir; fine fields; In; Knight shift; Noble metals; P; Sn; *10345*. SP305-1.

Suspended particulates in water; Teflon water sampler; Trace elements; Trace elements in water; Water; Filtering water; River water; Sampling water for trace elements; *SP422*, 439-455 (Aug. 1976). SP305-8.

Suspension; Acidity; Contact; Decantate; Electrode; Error; Tract; Paper; PH; *NBSIR 75-915*. SP305-8.

Suspension; Torsional mechanical resonance frequency; Cords; Loop; *10905*. SP305-2.

Suspension; Transportation; Urban transportation; Fatigue; Magnetic properties; Materials; Refrigeration; Superconducting magnets; *13954*. SP305-6.

Sustained load; Accelerated aging; Adhesive bond; Ductility; Flexural shear; Housing systems; Local buckling; Material variability; Moisture conditioning; Operation; BREAKTHROUGH; Paper honeycomb; Structural sandvich; *B5551*. SP305-6.

Sustained load; Anchors; Concrete slabs; Design loads; Fatigue; Inserts; Pull-out loads; *B5542*. SP305-4.

Sustained load; Transportation; Vibration; Wood-frame; Detonation; Housing; Laboratory; Module; Racking; Stiffness; Structural tests; *13389*. SP305-5.

Sustained loading; Fracture probability; Slow crack growth; Strength degradation; *15125*. SP305-7.

Sustained loading; Tensile shear; Adhesive bond; Aging; Composites; Compression; Flexure; Glass fiber; Housing systems; Innovations; Laminate; Operation BREAKTHROUGH; Racking; Reinforced plastics; Reinforced polyester; *13345*. SP305-5.

Sustained loading; Tensile strength; Adhesive bonding; A tests (materials); Composite materials; Glass fibers; Hot system; Laminates; Reinforced plastics; Shear strength; *15624*. SP305-7.

$SU(2)_M \times SU(2)_I$ ; Trident production; Weak interaction; Neutron;  $m$ -spin; Neutrino; *13127*. SP305-5.

$SU(3)$ ; Asymptotic; Baryons; Mesons; Reaction; Scattering; *10296*. SP305-1.

$SU(3)$ ;  $SU(6)_M$ ;  $A_2$ ; Mesons; Resonances; Spectroscopy; *12345*. SP305-3.

$Su(3)$ ;  $Su(6)_M$ ; Baryon decays; Constituent quarks; Current quarks; Pionic transitions; *13642*. SP305-5.

$SU(3)$ ;  $SU(6)_M$ ; Baryon resonances; Classification; Dimensions; Higher symmetry; *9295*. SP305.

- 3): Symmetry breaking; Trajectory; Cross sections; Reactions; Regge pole; 14013. SP305-6.
- 3): Symmetry breaking; Trajectory; Cross sections; Reactions; Regge pole; 14166. SP305-6.
- 3): Symmetry relations; Inclusive reactions; Pionization reaction; Quark model; Regge residue; 13868. SP305-6.
- 4) reactions; High energy differences; Q-plot inequalities; 39. SP305-1.
- 3): SU(6); Symmetry; Total cross sections; Barger-Rubin; Hanson-Treiman; 12951. SP305-4.
- 5): W spin; Hadrons; Little group; Spin algebras; 9621. SP305-1.
- 5)  $\times$  0(3); Baryons; Configuration mixing; Hyperons; Resonances; Rotations; 11912. SP305-3.
- 5)<sub>w</sub>; A<sub>1</sub>; Mesons; Resonances; Spectroscopy; SU(3); 12009. SP305-3.
- 5)<sub>w</sub>; Baryon decays; Constituent quarks; Current quarks; Quark transitions; SU(3); 13642. SP305-5.
- 5)<sub>w</sub>; Baryon resonances; Classification; Decay widths; Higher symmetry; SU(3); 9295. SP305.
- 5)<sub>w</sub>; Symmetry; Exotic; Mesons; Reactions; Structure; 974. SP305-3.
- 5)<sub>w</sub>; Symmetry; Exotic; Mesons; Reactions; Structure; 543. SP305-6.
- 5)<sub>w</sub>; Symmetry; Vector; Dominance; Meson; Photoproduction-meson; 11222. SP305-2.
- 5)<sub>w</sub>; 405 representation; Higher symmetry scheme;  $\lambda$  quark content; Nonet of  $2^{++}$  mesons; Schwinger mass formula; 132. SP305.
- 5) b; Chemical polish; Iron; Low-carbon steel; Single phase alloys; 13275. SP305-5.
- 5) b; Flowing pressure on dentures; Variation in pressure; Brinell indentation used to measure force; Clinical; Measuring area dentures; 9970. SP305-1.
- 5) b; n bands; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Acetylene; C<sub>2</sub> radical; C<sub>2</sub><sup>-</sup> ion; Cesium; Electron affinity; Matrix isolation; Photoionization; 11405. SP305-2.
- 5) b; n bands of C<sub>2</sub>; Ultraviolet spectrum; Vacuum ultraviolet photolysis; Acetylene; C<sub>2</sub>; HC<sub>2</sub>; Infrared spectrum; Mulliken bands of C<sub>2</sub>; 10246. SP305-1.
- 5) b; ating; Temperature, central body; Thermocouple disconnection; Thermoelectric thermometry; Thermometer; Vasodilation; Warm sensitive neurons; Anesthesiology; Brain temperature; Carotid artery; Clinical medicine; Cold stress (diver); 3631. SP305-5.
- 5) b; British Board for Technical Development; European efforts to find inventors; Inventor; Inventor ecology; SP388, pp. 175-82. SP305-6.
- 5) b; ep generator; Time base; Traveling wave oscilloscope; High voltage pulse; Nanosecond; Oscilloscope; Pulse generator; 2481. SP305-4.
- 5) b; filling of rubber network; Cross-linking of rubber; Dicumyl peroxide; Elasticity theory of rubber; Entanglements in rubber; Gel point; Modulus of rubber; Molecular interpretation of rubber elasticity; Rubber elasticity; J. Res. 80A No. 4, 451-463 (1976). SP305-8.
- 5) b; pt frequency; Time delay spectrometry; Tissue; Transmission; Velocity; Attenuation; Phase; SP453, pp. 81-95 (Oct. 1976). SP305-8.
- 5) b; pt frequency measurements; Wheatstone Bridge; Automatic network analyzers; Computer-controlled measurement; Magic eye; Microwave measurement methods; Multiple probe devices; Reflectometers; Rotating probe devices; Slotted discs; Survey of automatic techniques; Monogr. 151. SP305-6.
- 5) b; pt-frequency; Antenna gain; Frequency measurement; Standard antenna; 9712. SP305-1.
- 5) b; ing set; Test method; Component; Criteria; Development; Equipment; Hazard; Hazardousness; Home playground; Identification; Mishap; Misuse; Product defect; Safety standards; 14597. SP305-6.
- 5) b; Swing sets, safety of; Home playground equipment, safety of; Jungle gyms, safety of; Playground equipment, safety of; Safety of home playground equipment; Slides, safety of; PS66-75. SP305-8.
- 5) b; Swinging shear planes; TiO<sub>2</sub>; TiO<sub>2</sub>-Cr<sub>2</sub>O<sub>3</sub> system; Crystallographic shear; Rutile; SP364, pp. 197-204. SP305-4.
- 5) b; Swirling flow; Decay of swirling flow; Helical flow; Pressure differential during swirling flow; 15080. SP305-7.
- 5) b; Swirls; Oxygen in silicon; Silicon single crystals; Spreading resistance measurements; SP400-10, p. 185-190. SP305-6.
- 5) b; Switch; Burglar alarm sensor; Burglar alarm system; Door switch; Magnetically actuated; Perimeter sensor; 14361. SP305-6.
- 5) b; Switch; Burglar alarm sensor; Burglar alarm system; Interior perimeter sensor; Mercury; 14550. SP305-6.
- 5) b; Switch; Burglar alarm sensor; Burglar alarm system; Door switch; Mechanically actuated switch; Perimeter sensor; 14679. SP305-6.
- 5) b; Switch; Temperature; Thermometer; Bearings; Bolometer; Electron microscope; Helium; Hydrogen; Level gauging; Liquid level; Magnet; Motor; Pump; Rectifier; Solenoid; Superconductivity; 9715. SP305-1.
- 5) b; Switch contact arrangement; Transient; Calorimetry; Constant current power supply; Energy measurement; Power averaging; 10872. SP305-2.
- 5) b; Switched lasers; Thermal stresses; Extrinsic damage; Intrinsic damage; Laser materials; Surface damage; 12569. SP305-4.
- 5) b; Switching; Dicke; Microwave; Radiometer; Sensitivity; J.71C2-252, 127-152 (1967). SP305.
- 5) b; Switching; Ultrasonics; NMR; 14980. SP305-7.
- 5) b; Switching theory; Traffic flow; Transportation theory; Allocation; Queueing theory; Scheduling; J.72B No. 3, 215-227 (1968). SP305-1.
- 5) b; Switching transients; Thermal resistance; Thermally stimulated measurements; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; TN773. SP305-5.
- 5) b; Switching transients; Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; TN788. SP305-5.
- 5) b; Switzerland; Building research; Buildings; Cooperation; Housing; International; 13796. SP305-5.
- 5) b; Sylow subgroups; Bounds; Elementary abelian groups; Generator rank; J.71B4-251, 247-248 (1967). SP305.
- 5) b; Sylvite; Thermodynamic properties; Heat of fusion; High-temperature drop calorimetry; Lattice vacancies; Murate of potash; Potassium chloride; J.78A No. 4, 515-529 (1974). SP305-6.
- 5) b; Symbolic addition; X-ray; Crystal structure; Sodium tetraborate; 9801. SP305-1.
- 5) b; Symbolic program evaluation; Automatic testing; Computer program testing; FORTRAN programs; Program analysis; Software correctness; Software verification; NBS-GCR-76-69. SP305-8.
- 5) b; Symbols; Terminology; Definitions; Heat constants; Heat units; Methods of calorimetry; Standard reference substances; 10960. SP305-2.
- 5) b; Symbols; Transmittance; Transmittance factor; Absorbance; Contrast; Modulation; Notation; Optical density; Propagance; Reflectance; Reflectance factor; 9773. SP305.
- 5) b; Symbols; Transmittance; Transmittance factor; Modulation; Notation; Optical density; Propagance; Reflectance; Reflectance factor; 15564. SP305-7.

Symbols; Type faces; Typography; Visibility; Alphanumeric characters; Displays; Handbook; Human factors; Legibility; Psychology; Readability; Standards; *M262-2*. **SP305**.

Symbols; Understanding; Written language; Human communication; Language; Meaning; *J3233*. **SP305-5**.

Symbols; Units; Briggs; Logarithmic scales; Octave; Optical density; Order; *11057*. **SP305-2**.

Symbols; Units; Constants; Definitions; Electricity; Electronics; Engineering; Metric; *SP368*. **SP305-4**.

Symbols in reflectometry; Terms in reflectometry; Definitions in reflectometry; Photometry; Radiometry; Reflectance; *9823*. **SP305-1**.

Symmetric completion; Symmetric matrices; Unimodular matrices; Fields; Principal ideal rings; *13976*. **SP305-6**.

Symmetric functions; Diophantine equations; Prouhet-Terry-Escott problem; *J71B4-241, 181-182 (1967)*. **SP305**.

Symmetric functions; Diophantine equations; Prouhet-Terry-Escott problem; *J74B No. 1, 31-36 (1970)*. **SP305-2**.

Symmetric group; Tensor power; Character; Kronecker power; *14542*. **SP305-6**.

Symmetric groups; Symmetries; Hilbert basis; Integration; Invariants; Multiple integrals; Numerical integration; Quadrature; Reflection groups; *13857*. **SP305-6**.

Symmetric matrices; Unimodular matrices; Fields; Principal ideal rings; Symmetric completion; *13976*. **SP305-6**.

Symmetric matrix; Eigenvalues; Matrix; Principal submatrices; Rank; *J72B No. 2, 115-125 (1968)*. **SP305-1**.

Symmetric matrix; Matrix; Principal submatrices; Rank; *J72B No. 4, 249-252 (1968)*. **SP305-1**.

Symmetric quark model; Three-triplet quark model; Color-quark model; Current algebra and pcc; Nonleptonic  $\Omega$ -decays; Paraquark model; *14569*. **SP305-6**.

Symmetric spaces; Conformal group; Fine structure constant; Relativistic quantum theory; *12509*. **SP305-4**.

Symmetric top; Infrared; Molecular geometry; Monodeuteromethane; Perturbations; Rotational constants; *13142*. **SP305-5**.

Symmetric top; Trifluoramine; Dipole moment; Hyperfine structure; Microwave spectrum; Quadrupole coupling; Stark effect; *13426*. **SP305-5**.

Symmetric triatomic molecules; Centrifugal distortion; Error evaluation; Force fields; Least squares analysis; Model testing; *12607*. **SP305-4**.

Symmetrical;  $\text{BrHB}^+$  ion;  $\text{ClHCl}^-$  ion; Environmental effects; Infrared spectra; Raman spectra; *11657*. **SP305-2**.

Symmetrical; Computer; Diketoinositol phenylosotriazole; Half-chair conformation; Mercuric acetate, p.m.r. spectra; *10939*. **SP305-2**.

Symmetrical; Conformation; Half-chair; Inositol; Mercuric acetate, phenylosotriazole; P.m.r.; *12554*. **SP305-7**.

Symmetrical bending; Symmetrically distributed load; Theory; Circular plates; Concentric loading; Design; Elasticity; Experiment; Maximum stresses; *J71C1-438, 1-10 (1967)*. **SP305**.

Symmetrically distributed load; Theory; Circular plates; Concentric loading; Design; Elasticity; Experiment; Maximum stresses; Symmetrical bending; *J71C1-438, 1-10 (1967)*. **SP305**.

Symmetrically distributed load; Thin plates; Bassali's theory; Deflection; Elasticity; Flexure; Point supports; *J72C No. 1, 21-26 (1968)*. **SP305-1**.

Symmetries;  $\psi$  particles;  $\chi$  particles; Angular distributions; Gamma-gamma correlations; Quark models; *15962*. **SP305-8**.

Symmetries; Hilbert basis; Integration; Invariants; Multiple integrals; Numerical integration; Quadrature; Reflection groups; Symmetric groups; *13857*. **SP305-6**.

Symmetrizable matrix; Generalized inverse; *J71B4-248, 229-231 (1967)*. **SP305**.

Symmetrized techniques; Electronic density of states; De Haas-van Alphen effect; Fermi surface; Fermi velocity; Fourier series; Spherical harmonics; *SP323*, pp. 785-790. **SP305-4**.

Symmetry; Acid; Benzalazine; Cleavage; Complex; Molecular; Orbital; Periodic acid; Rules; *12593*. **SP305-4**.

Symmetry; Antennas; Arrays; Coordinate transformations; Data processing; Group representations; Measurements; Near field; Non-planar; Patterns; Scanning; Spherical; *NBSIR 75-4*. **SP305-7**.

Symmetry;  $A_2$ ; Boson; Decay; Octet; Selection rule; *110*. **SP305-2**.

Symmetry; Collisions; Gases; Molecules; Pressure broadening; Radiation; Relaxation; Spectra; *9378*. **SP305-1**.

Symmetry; Consistency; Frequency; Superposition; Crystal Structure; Patterson; Vector; *J70A4-407, 319-321 (1970)*. **SP305**.

Symmetry; Exotic; Mesons; Reactions; Structure; *SU(6)*; *11974*. **SP305-3**.

Symmetry; Exotic; Mesons; Reactions; Structure; *SU(6)*; *14543*. **SP305-6**.

Symmetry; TCP; Time reversal; Decay rates; *10866*. **SP305-5**.

Symmetry; Time reversal; CP symmetry; CPT theorem; Elementary particles;  $K^0$  mesons; *12852*. **SP305-4**.

Symmetry; Time-reversal; Weak decays; CPT;  $K^0$  mesons; *12440*. **SP305-4**.

Symmetry; Total cross sections; Barger-Rubin; Johnstone; Treiman; *SU(3)*, *SU(6)*; *12951*. **SP305-4**.

Symmetry; Transition metal ions; Chromium 3+; Crystal vacancies; Cubic crystals; Depolarization; Impurity compensation; Luminescence; Magnesium oxide; MgO; Optical properties; Polarized luminescence; *16521*. **SP305-8**.

Symmetry; Trapping center; Crystal; Cubic; Jump rate; Point defect; Relaxation; *11419*. **SP305-2**.

Symmetry; Vector; Dominance; Meson; Photoproduction; meson; *SU(6)*; *11222*. **SP305-2**.

Symmetry breaking; Trajectory; Cross sections; Reaction; Regge pole; *SU(3)*; *14013*. **SP305-6**.

Symmetry breaking; Trajectory; Cross sections; Reaction; Regge pole; *SU(3)*; *14166*. **SP305-6**.

Symmetry breaking;  $U(12)$  theory; Baryon; Branching ratios; Decay; Decay width; Meson; Resonances; Spurious; *91*. **SP305**.

Symmetry change; Van der Waals isotherm; Fluid-solid phase transition; Lennard-Jones model; Melting and freezing densities; Monte Carlo simulation; *14736*. **SP305-7**.

Symmetry changes; Biferrocene; Electron resonance; Susceptibility; *13027*. **SP305-4**.

Symmetry class of tensors; Elementary divisors; Irreducible character; *15338*. **SP305-7**.

Symmetry class of tensors; Full linear group; Irreducible character; *12213*. **SP305-3**.

Symmetry class of tensors; Permanent adjoint; Posi-semidefinite hermitian matrix; *15314*. **SP305-7**.

Symmetry class of tensors; Symmetry operator; Tensor product; Irreducible character; *J74B No. 1, 41-44 (1970)*. **SP305-2**.

Symmetry condition; Crystallographic point group; Jump rate; Point defects; Relaxation times; Space group; *10113*. **SP305-1**.

Symmetry conditions; Activation energy; Internal friction; Point defect; Reduction; Rutile; *10114*. **SP305-1**.

Symmetry group; Time ordering; Balmer lines; Four dimensional rotation group; Hydrogen; Plasma; Plasma broadening; Pressure broadening; Scattering matrix; Spectral broadening; Stark broadening; *15009*. **SP305-7**.

Symmetry number; Third law; Entropy; Isotopes; *124*. **SP305-4**.

Symmetry operator; Tensor product; Irreducible character; Symmetry class of tensors; *J74B No. 1, 41-44 (1970)*. **SP305-2**.



mmetry plane; Vacancy; Correlation factor; Diffusion; Drift mobility; Electric field; Random walk; 15367. SP305-7.

mmetry relations; Inclusive reactions; Pionization region; Quark model; Regge residue; SU(3); 13868. SP305-6.

mmetry species; Tetrahedral; Energy levels; Hyperfine interactions; Methane; Selection rules; 16376. SP305-8.

mmetry-adapted; Electron affinity; O, O<sup>-</sup>; Pair-correlation energy; Shell-correlation energy; 12821. SP305-4.

mplectic matrices; Generalized permutations; *p*th roots; 15790. SP305-8.

mpiosum; Critical current; Mechanical properties; Stress effects; Superconductors; 16636. SP305-8.

mpiosum; Exhibits; Microwave; 14111. SP305-6.

mpiosum on trace characterization; Trace characterization; X-ray spectroscopy; Electrochemical methods; Electron and optical microscopy; Nuclear methods; Optical spectroscopy; *Mono. 100. SP305.*

mpiosum proceedings; Ion-selective electrodes; Specific-ion electrodes; Review of ion-selective electrodes; SP314. SP305-1.

nchronization; Time; Broadcast; Communication; Frequency; Ratio; 16496. SP305-8.

nchronization; Time; Broadcasting; Dissemination; Frequency; Satellite; 14836. SP305-7.

nchronization; Time; Dissemination; Frequency; Satellites; TN645. SP305-5.

nchronization; Time; Time scale; Time scale precision; Atomic clock; Clock weighting factors; Flicker noise; Frequency stability; Noise; 12480. SP305-4.

nchronization; Time and frequency dissemination; VHF; VLF; HF; Noise; Satellite; TN357. SP305.

nchronization; Time dissemination; Tracking; Clocks; Propagation delay; Satellites; 12647. SP305-4.

nchronization; Time transfer; Accurate time dissemination; Optical pulsars; Precision timing; Simultaneous reception; 12959. SP305-4.

nchronization; Timing; UHF; Clocks; Delay; Ranging measurements; Satellites; 12536. SP305-4.

nchronous; Asynchronous; Communications; Computer; Data transmission; Errors; protocol; 13325. SP305-5.

nchronous amplification; Thoria; Tungsten; Diffuse reflectance; Graphite; High temperature reflectance; Infrared reflectance; Integrating sphere reflectometer; Laser; reflectance; Sodium chloride coating; TN439. SP305-1.

nchronous detector; Attenuator; Differential flame emission; Phase shifter; Precision; 11429. SP305-2.

nchronous satellite; Clock synchronization; One-way time transfer; Satellite timing; NBSIR 73-348. SP305-6.

nchronous satellites; Time delay; Satellite timing; Slant range; TN638. SP305-5.

nchronous signaling rates; Teleprocessing; Data communication equipment; Data processing terminal equipment; Data transmission (voice band); Federal Information Processing Standards; FIPS PUB 22. SP305-4.

nchronous signaling rates; Teleprocessing; Wide band; Data communication equipment; Data processing terminal equipment; Data transmission (high speed); Federal Information Processing Standards; FIPS PUB 37. SP305-7.

nchronously rectified detection; Lock-in detection; 13067. SP305-5.

nchrotron; Building collapse; Corrosion; Energy; Environmental; Frequency standards; Hearing aids; High-rise buildings; Metals; Radiation safety; Standards laboratory; DIM/NBS 60, No. 5, 1-24 (1976). SP305-8.

nchrotron; Ultraviolet machine; Effects of metrication; Environmental data; Fire research (history of); Fire retardants; Flammability; Frequency measurements; Housing industry; Josephson junction; Nitric oxide; DIM/NBS 58, No. 6, 121-142 (1974). SP305-16.

Synchrotron; X-ray, vacuum ultraviolet; Radiation; Source and electrons; 14636. SP305-6.

Synchrotron light; Grazing-incidence; 3-meter; Monochromator alignment; 0.06 Å resolution; Spectrograph; 9355. SP305.

Synchrotron light; 20-150 eV; Absorption spectrum; Analysis; Ne I; Resonances; 9638. SP305-1.

Synchrotron light source; 20-180 eV; Autoionization; Far ultraviolet absorption spectra; He through Xe; One and two electron excitation; Resonance profiles; 9915. SP305-1.

Synchrotron radiation; Decay; Intensity; Magnetic equator; Observations; Radio frequencies; Starfish; 10237. SP305-1.

Synchrotron radiation; Emission angle; Energy distributions; Gold; Incidence angle; Photoemission; Polarization; Polycrystalline film; 13223. SP305-5.

Synchrotron radiation; Transfer standard detectors; Calibration of detectors; Corrections for second order radiation; Far ultraviolet; Noble gas double ionization chamber; 14987. SP305-7.

Synchrotron radiation; Transfer standard detectors; Vacuum ultraviolet radiation standards; Continuum radiation; Diodes; Irradiance standard; 14997. SP305-7.

Synchrotron radiation; Vacuum ultraviolet; Electron accelerator; New facility; Radiation; Storage ring; 15026. SP305-7.

Synchrotron radiation; Vacuum ultraviolet; Irradiances; Radiometry; Spectrometer calibration; Standard source; J79A No. 6, 761-774 (1975). SP305-7.

Synchrotron radiation; Vacuum ultraviolet; Atomic physics; 15795. SP305-8.

Synchrotron radiation; XUV grating monochromators; Calibrated XUV detectors; Irradiance; Radiometry; Second order diffracted radiation; 15107. SP305-7.

Syndrome; Accuracy; Analytical chemistry; Standard reference material; Statistics; SP422, pp. 123-126 (Aug. 1976). SP305-8.

Synovial fluid; Calcium diphosphate; Calcium pyrophosphate; Chondrocalcinosis; Pseudogout; Solubility; Solubility product; 16230. SP305-8.

Syntax; Biological images; Cell analysis; Image display; Pattern recognition; 9898. SP305-1.

Syntax analysis; Computation and flow analysis; FORTRAN language use; Programming aids; TN849. SP305-6.

Syntax analysis; Computation and flow analysis; FORTRAN use; Programming aids; 15348. SP305-7.

Syntax analysis; Data archives; Language use; Programming aids; Programming languages; Source-statement analysis; TN797. SP305-5.

Syntax analysis; Transformation algorithm; Wiswesser; Acyclic; Benzene; Chemical structure notations; Connection tables; Contractions; Ring system; 10550. SP305-1.

Syntax analysis; Transformation algorithm; Wiswesser; Acyclic; Benzene; Chemical structure notations; Connection tables; Contractions; Ring system; TN432. SP305-1.

Syntax analysis; Transformation algorithm; Wiswesser; Acyclic; Benzene; Chemical structure notations; Connection tables; Contractions; Ring system; 10947. SP305-2.

Synthesis; Accelerators; Amines; Color-stable composites; Methacrylates; Polymerization; Resins; 12302. SP305-3.

Synthesis; Bismuth; Mercury; Sulfides; 13518. SP305-5.

Synthesis; Chemical Vapor Transport; Crystal growth; Oxides; SP364, pp. 413-436. SP305-4.

Synthesis; Coevaporation of elements; Rare earth chalcogenides; SP364, p. 723. SP305-4.

Synthesis; Composites, dimethacrylates; Monomers; Resins; 15159. SP305-7.

Synthesis; System; User needs; User values; Analysis; Cost; Evaluation financing; Housing; Improvements; Individual; Inspection; Minority groups; Performance; Real world; Rehabilitation; SP361, Vol. 1, pp. 345-356. SP305-4.

- Synthesis; Telomerization; Cyclic inter-intramolecular mechanism; Diene polymerization; Fluorodienes; Intermediates; Polymerization; Purity; *J.75A No. 1, 41-56 (1971)*. SP305-3.
- Synthesis; Thermal stability; Metallo-organic polymers; Role of metal and ligand; *10276*. SP305-1.
- Synthesis; Toxicity; Accelerators; Amines; Color-stable composites; Crystalline amine polymerization accelerators; *12922*. SP305-4.
- Synthesis; Tungsten; Fluorine; Methoxy; N.m.r.; Siloxane; Stereochemistry; *11630*. SP305-2.
- Synthesis; Tungsten hexafluoride; Chemical shifts; Fluorine NMR; Organosilanes; Organoxytungsten(VI) fluorides, *Pi-Bonding*; Substituent parameters; *12816*. SP305-4.
- Synthesis; Tungsten(VI) halides; Alkoxo; Chlorides; Exchange reactions; Fluorides; Methoxy; Nuclear magnetic resonance; Organosilanes; Organoxo; Stereochemistry; *12646*. SP305-4.
- Synthesis; Vanillyl-mandelic acid, VMA; Alkaline condensation; Glyoxylic acid; Quaiacol; *J.78A No. 3, 411-412 (1974)*. SP305-6.
- Synthesis, chemical; Titration; Wind vane; Work positioner; Conductometry; Decoding matrix; Fluoroolefins; Integrator; Magnetic sensing probe; Magnetic tape; Microbridge; Numbering machine; Perfluorostyrene; Shaft position encoder; Staple detector; *TN744*. SP305-4.
- Synthesis of radioactive sugars; Carbon-14-labeled L-fucose; L-fuconic acid- $1-^{14}\text{C}$ ; L-fucose- $1-^{14}\text{C}$ ; Radioactive carbohydrates; *J.71A2-444, 133-136 (1967)*. SP305.
- Synthesis of 1,1'-bipylene; Periodate oxidation of pyrene; *10194*. SP305-1.
- Synthesizing nonuniformly spaced antenna arrays; Amplitude excitations; Antenna arrays; Element spacings; Nonuniformly spaced antenna arrays; *10197*. SP305-1.
- Synthetic benchmarking; Workload characterization; Benchmarking; Charging algorithms; Service bureaus; *16624*. SP305-8.
- Synthetic benchmarking; Workload characterization; Benchmarking; Charging algorithms; Service bureaus; *TN920*. SP305-8.
- Synthetic beta sources; Transmission curves; Beta absorption; Beta-particle energy; Beta-particle transmission; Half-thickness; Infinitely-thick sources; Low-level; *10421*. SP305-1.
- Synthetic brown quartz; Amethyst; Electron paramagnetic resonance; Ferric ion; Quartz; *11393*. SP305-2.
- Synthetic brown quartz; Zero-field EPR; Amethyst; Ferric ion; Iron-doped quartz; *11272*. SP305-2.
- Synthetic coal slags; System  $\text{K}_2\text{O}-\text{CaO}-\text{Al}_2\text{O}_3-\text{SiO}_2$ ; Vaporization; Crystallization; Magnetohydrodynamics; Potassium activity; *16457*. SP305-8.
- Synthetic focus; Tissues; Ultrasound; Acoustic attenuation; Acoustic velocity; Breast tumor; Computerized tomography; Heart; Reconstruction; Refractive index; *SP453*, pp. 109-119 (Oct. 1976). SP305-8.
- Synthetic food materials; Urea; Yeast; Amino acids; Food additives; Food problem; Production of synthetic food; *11136*. SP305-2.
- Synthetic fuels; Energy storage; Hydrogen utilization; Power generation; *15416*. SP305-7.
- Synthetic implants; Adsorption; Blood protein; Bound fraction; Ellipsometry; Implants; Polymer adsorption; Protein adsorption; *NBSIR 75-667*. SP305-8.
- Synthetic implants; Adsorption; Blood protein; Bound fraction; Ellipsometry; Implants; Polymer adsorption; Protein adsorption; *NBSIR 76-1017*. SP305-8.
- Synthetic implants; Thromboresistance; Biocompatibility; Bio-materials; Blood protein; Ceramic implants; Implantable electrodes; Metallic implants; Nerve prosthesis; *SP415*. SP305-7.
- Synthetic materials, cutting; Toys; Cut; Edges, hazardous; peripheral studies; Human tolerances; Injury; Inj thresholds; Inspection of edges; Laceration; Safety; Simulation; Skin; Skin, cutting; *NBSIR 73-262*. SP305-7.
- Synthetic quartz; Electron paramagnetic resonance; Ferric ion; *TN372*. SP305-1.
- Synthetic sapphire; Thermodynamic functions; Alumina; Aluminum oxide; Corundum; Drop calorimetry; Enthalpy; Heat capacity standard; Specific heat; Standard reference material; *J.75A No. 5, 401-420 (1971)*. SP305-3.
- Synthetic sea water; Weight loss; Bridge circuit; Change of instantaneous corrosion rates; Pearson equation; Pit depth Recorder; Stern-Geary equation; *11658*. SP305-2.
- Synthetic sphere; X-ray;  $\text{CaTiGeO}_5$ ;  $\text{CaTiSiO}_5$ ; Crystal; Mineral; Space group; *10776*. SP305-1.
- Synthetic standards; Apollo 12; Electron probe analysis; Lunar materials; Mineral analysis; *13240*. SP305-5.
- Synthetic zeolite; Zeolite; Hydrogen gas; Low temperature; Methane; Nitrogen; Physical adsorption; *9841*. SP305-1.
- Système International des Unités; Units of Measurement; General Conference of Weights and Measures; International Committee of Weights and Measures; International System Units; SI; *SP330, 1972 Edition*. SP305-4.
- Système International des Unités; Units of measurement; General conference of weights and measures; International Committee of Weights and Measures; International System Units; SI; *SP330*. SP305-3.
- System; Automated; Bifurcations; Classification; Descriptive Endings; Fingerprint; Henry system; Identification; Minut Ridge; *10273*. SP305-1.
- System; Test method; ASTM; Classification; Fire hazard; Participation; Property; *16124*. SP305-8.
- System; Tungsten trioxide; Crystal structure; Niobium pentoxide; Phase equilibria; *J.70A4-404, 281-303 (1966)*. SP305.
- System; User needs; User values; Analysis; Cost; Evaluation; financing; Housing; Improvements; Individual; Inspection; Minority groups; Performance; Real world; Rehabilitation; Synthesis; *SP361, Vol. 1*, pp. 345-356. SP305-4.
- System; Variable; Anchor; Controls; Corrosion; Growth; Meeting; Modern; Museum; Primary; Reliability; Renovation; Secondary; *BSS66*, pp. 102-115. SP305-7.
- System  $\text{AlCl}_3\text{-NaCl}$ ; System  $\text{NaCl-AlCl}_3$ ; Immiscibility;  $\text{NaAlCl}_4$  Phase equilibrium; *J.78A No. 4, 505-507 (1974)*. SP305-6.
- System approach; Building; Design process; ER-system; Performance; Performance concept; Quality description; *SP361 Vol. 1*, pp. 191-200. SP305-4.
- System  $\text{BaMnO}_3$ ; Barium-manganese oxides; Crystal structure; Oxidation-reduction; Phase equilibria; *12468*. SP305-4.
- System  $\text{BaTiO}_3\text{-SiO}_2$ ;  $\text{TiO}_2$  solvent;  $\text{Ba}_2\text{TiSi}_2\text{O}_8$ ;  $\text{BaTiSi}_2$  Crystal growth; Fresnoite; Phosphor; Piezoelectric; *J.74A No. 2, 229-232 (1970)*. SP305-2.
- System  $\text{Ca}(\text{OH})_2\text{-H}_2\text{PO}_4\text{-H}_2\text{O}-\text{NaCl}$ ; Brush  $\text{CaHPO}_4\cdot 2\text{H}_2\text{O}$ ;  $\text{NaHPO}_4^-$  ion pair; Solubility product; *J.71 No. 6, 675-681 (1974)*. SP305-6.
- System commands; User protocols; Command languages; Computers; Man-machine systems; Networks; *TN877*. SP305-7.
- System commands; User protocols; Command languages; Computers; Man-machine systems; Networks; *NBSIR 75-7*. SP305-7.
- System control module; Teletypewriter interface; Time-sharing computer; Computer-controlled experiment; Data acquisition system; Digital scanner; Experiment-computer interface; Effect; *TN510*. SP305-1.
- System design; Architecture; Design; Hospital design; Medical facilities; Military construction; New generation military hospital; *BSS54*, pp. 1-12. SP305-6.
- System design; Unit price; Users chargers and costs; User study; Users survey; Announcement journals; Demand; Demand dissemination; Important dissemination; *10299*. SP305-1.

em design for libraries; Task Force on Automation; Automatic data processing; Automation of library functions; Federal libraries; Federal Library Committee (FLC); Library automation; 12004. SP305-3.

em designs; Transfer standards; Automatic vehicle location; dissemination of time and frequency; Portable clocks; Radio propagation; Satellite time dissemination; Television time and frequency dissemination; Time-frequency; Time signal noise; 433. SP305-5.

em  $\text{KTaO}_3\text{-Ta}_2\text{O}_5$ ; Alkali oxides; Crystal chemistry; Crystal growth; Phase equilibria; System  $\text{LiTaO}_3\text{-Ta}_2\text{O}_5$ ; System  $\text{LiTaO}_3\text{-Ta}_2\text{O}_5$ ; 13486. SP305-5.

em dynamics; Thermometers; Cooling system; Cryogenics; Helium-cooled electrical leads; Helium impurities; Microwave levities; Negative differential flow resistance; Pressure measurement; NBSIR 75-823. SP305-7.

em effectiveness; Computer performance evaluation; Efficiency measurement data; Measures of computer performance; SP406, pp. 61-64. SP305-7.

em engineering; Building codes; Computer model; Decision theory; Networks; Specifications; Standards; NBS-GCR-76-SP305-8.

em errors; System performance; Theorem-proving; Compiler; Computer network; Documentation; Dynamic software analysis; Interpreter; Quality control; Software testing; Software verification; Static software analysis; Structured programming; TN800. SP305-6.

em evaluation; System features; User experiences; Data base applications; Data base management systems; Selection criteria; Software features; TN887. SP305-7.

em features; User experiences; Data base applications; Data base management systems; Selection criteria; Software features; System evaluation; TN887. SP305-7.

em function; Transmission; Coefficient algorithms; Expansions; Inverse Laplace transform; Reflectometry; Skin effect; Step response; J74B No. 3, 155-173 (1970). SP305-2.

em integration; Automation; Human relations; Job enrichment; Organizational development; Project management; 5570. SP305-7.

em  $\text{K}_2\text{O}\cdot\text{Li}_2\text{O}\cdot\text{TiO}_2$ ; Coordination of  $\text{Li}^+$  ion; Crystal structure; Non-stoichiometric phase; 13249. SP305-5.

em  $\text{K}_2\text{O}\cdot\text{CaO}\cdot\text{Al}_2\text{O}_3\cdot\text{SiO}_2$ ; Vaporization; Crystallization; Magnetohydrodynamics; Potassium activity; Synthetic coal lags; 16457. SP305-8.

em  $\text{K}_2\text{O}\cdot\text{ZrO}_2$ -cerium oxide; Thermal microbalance; X-ray diffraction; Cerium oxide; Magnetohydrodynamics; 16440. SP305-8.

em  $\text{LiTaO}_3\text{-Ta}_2\text{O}_5$ ; System  $\text{NaTaO}_3\text{-Ta}_2\text{O}_5$ ; System  $\text{KTaO}_3\text{-Ta}_2\text{O}_5$ ; Alkali oxides; Crystal chemistry; Crystal growth; Phase equilibria; 13486. SP305-5.

em  $\text{NaCl}\cdot\text{AlCl}_3$ ; Immiscibility;  $\text{NaAlCl}_4$ ; Phase equilibrium; System  $\text{AlCl}_3\text{-NaCl}$ ; J78A No. 4, 505-507 (1974). SP305-6.

em  $\text{AlTaO}_3\text{-Ta}_2\text{O}_5$ ; System  $\text{KTaO}_3\text{-Ta}_2\text{O}_5$ ; Alkali oxides; Crystal chemistry; Crystal growth; Phase equilibria; System  $\text{LiTaO}_3\text{-Ta}_2\text{O}_5$ ; 13486. SP305-5.

em of units; Units of length; Customary units for length; Engineering calculations; International System of Units; length; 9911. SP305-1.

em parameters; Transportable computer programs; ANSI FORTRAN; Double precision; General-purpose computer program; Implementation of OMNITAB II; Labeled common; Machine independent; OMNITAB II; Overlay; Segmentation; TN550. SP305-2.

em performance; Theorem-proving; Compiler; Computer network; Documentation; Dynamic software analysis; Interpreter; Quality control; Software testing; Software verification; Static software analysis; Structured programming; System errors; TN800. SP305-6.

System performance; Tri-service; Underground heat distribution; ASTM, criteria; Federal Construction Council; Interagency; Prequalification; BSS66, pp. 73-77. SP305-7.

System reliability; Hardware monitoring; Monitoring register; Software monitoring; SP406, pp. 87-96. SP305-7.

System reliability; Uncertainty; Accuracy; Accuracy chart; Calibration uncertainties; Measurement; Measurement systems; Reliability; 11198. SP305-2.

System tantalum oxide-tantalum tungstate; Melting points; Phase equilibria; 12017. SP305-3.

System  $\text{Ta}_2\text{O}_5\cdot\text{WO}_3$ ; Crystal structure; Low temperature form of  $\text{Ta}_2\text{O}_5$ ; 12759. SP305-4.

System  $\text{Ta}_2\text{O}_5\text{-WO}_3$ ;  $\text{Ta}_{22}\text{W}_6\text{O}_{61}$ ; Crystal structure; 12763. SP305-4.

System  $\text{Ta}_2\text{O}_5\text{-WO}_3$ ;  $\text{Ta}_{30}\text{W}_6\text{O}_{61}$ ; Crystal structure; 12762. SP305-4.

System  $\text{Ta}_2\text{O}_5\text{-WO}_3$ ;  $\text{Ta}_{30}\text{W}_6\text{O}_{61}$ ; Crystal structure; 12760. SP305-4.

System  $\text{Ta}_2\text{O}_5\text{-WO}_3$ ; 4  $\text{Ta}_2\text{O}_5\cdot\text{Al}_2\text{O}_3\cdot4\text{WO}_3$ ; Crystal structure; 12761. SP305-4.

System test bed; Simulation; Space systems; SP336, pp. 535-547. SP305-3.

System 360; Assembly language; Card punch; Card read; Input/output; On-line print; TN433. SP305-1.

Systematic; Sum; Approximation; Error; Formula; Imprecision; Law of error; Products; Propagation of error; Random; Ratio; J70C4-237, 263-273 (1966). SP305.

Systematic and random weighing errors; Within-group variance; Between-group variance; Mass comparisons of 1969; SP335, pp. 41-45. SP305-3.

Systematic bias in spectrophotometry; Transmittance, correction; Correction for reflections; Reflections, multiple; Spectrophotometry, high accuracy; J77A No. 6, 699-703 (1973). SP305-5.

Systematic error; Accuracy; Analysis of measurement data; Design of experiments; Functional relationships; Interlaboratory tests; Measurement process; Precision; Statistical concepts in measurements; SP300, Volume 1. SP305-1.

Systematic error; Amplitude density function; Arithmetic average; Autocorrelation function; Average wavelength; Kurtosis; Minicomputer software; Random error; Skewness; Surface microtopography; Surface roughness; Surface texture; TN902. SP305-8.

Systematic error; Certification; Meaningful measurement; Measurement; Measurement system; Precision; Reference method; Specificity; SRM; Standard reference material; Monogr. 148. SP305-7.

Systematic error; Sodium nitroprusside; Iron compounds; Optical Mossbauer spectrometer; Tandem Mossbauer spectrometer; Velocity calibration; Mossbauer; Spectroscopy; Standard; Differential chemical shift; Quadrupole splitting; Random error; M260-13. SP305.

Systematic error; Uncertainty; Accuracy; Calibrations; Expression of uncertainty; Measurements; Precision; Standard error; 10544. SP305-1.

Systematic error; Uncertainty; Accuracy; Calibrations; Expression of uncertainty; Measurements; Precision; Standard error; 11029. SP305-2.

Systematic error; Uncertainty; Mass measurement; Random variability; Standard deviation; 13402. SP305-5.

Systematic error; Youden plot; Analytical performance; Between-run; calibration; Precision; Quality control; SP422, pp. 141-150 (Aug. 1976). SP305-8.

Systematic error; Youden's burette experiment; Accuracy; Analysis of variance; Measurement process; Precision; Regression line; Scheduling measurements; Statistical design of experiments; 12527. SP305-4.

Systematic error analysis; Trace oxygen; 14-MeV neutron activation analysis; Blank; Cockcroft-Walton neutron generator;

- "Flow through" container; Gamma-attenuation; Geometrical correction; Neutron attenuation; 11409. SP305-2.
- Systematic errors; Accuracy; Accurate measurement system; Precision; Reference methods; Standard reference material; SP422, pp. 41-63 (Aug. 1976). SP305-8.
- Systematic errors; Beutler-Fano resonance profiles; Least squares analysis; Parameter correlation; Random errors; Slit function; Slit width-resonance width ratio; 11578. SP305-2.
- Systematic errors; Thorium chemical yield; Bio-assay; Carbon-14; Detection efficiency; Isotope dilution; "over-all" yield; Radiochemical analysis; Random errors; 9652. SP305-1.
- Systematic errors; Trace analysis; Accuracy; Activation analysis; Analytical chemistry; Charged particle activation analysis; Cross sections; Excitation functions; Fast neutron activation analysis; Fast particle activation analysis; SP422, pp. 1189-1214 (Aug. 1976). SP305-8.
- Systematic errors; Transmittance; Beam geometry; High accuracy; Optical design; Spectrophotometer; 13720. SP305-5.
- Systematic errors; Uncertainties; Accuracy; Optical radiation measurement; Radiometry; 16583. SP305-8.
- Systematic errors; 14-MeV activation analysis; Correction factors; Neutron and gamma-ray attenuation; Oxygen; Removal cross section; 10589. SP305-1.
- Systematic errors; 14-MeV activation analysis; Annihilation radiation; Correction factors; Neutron and gamma-ray attenuation; Photopeak analysis; Removal cross section; 11648. SP305-2.
- Systematic errors in molar absorptivity; Molar absorptivity in clinical chemistry; Random errors in molar absorptivity; SP378, pp. 109-115. SP305-5.
- Systematic errors in molar absorptivity; Molar absorptivity in clinical chemistry; Random errors in molar absorptivity; J76A No. 5, 483-489 (1972). SP305-4.
- Systematic errors in powder diffraction; Calculated powder patterns; III; Microabsorption effects; Quantitative phase analysis; Quantitative powder diffraction; Reference intensity ratios; 15929. SP305-8.
- Systematic testing; Testing tools; Dynamic analysis; NBS analyzer; NBS FORTRAN test routines; Networking; TN874. SP305-7.
- Systematic trend; Nuclear charge; Oscillator strength; Perturbation theory; 11194. SP305-2.
- Systematic trends; Atomic oscillator strengths; Homologous atoms; Isoelectronic sequences; Regularities; Spectral series; 13645. SP305-5.
- Systematic trends; Atomic oscillator strengths; Interpolated data; 12753. SP305-4.
- Systematic trends; Atomic oscillator strengths; Perturbation theory; Regularities; 13940. SP305-6.
- Systematic trends; Atomic oscillator strengths; Beam foil spectroscopy; Isoelectronic sequences; Nuclear charge dependence; 11195. SP305-2.
- Systematic trends; Continuum; Discrete spectrum;  $f$ -sum rule;  $f$ -values; Lithium sequence; Oscillator strength distribution; Oscillator strengths; Relativistic effects; Spectral series; 15817. SP305-8.
- Systematic trends;  $F$ -sum rule;  $F$ -values; Lithium sequence; Oscillator strength distribution; Oscillator strengths; 15474. SP305-7.
- Systematic trends;  $f$ -values; Isoelectronic sequence; Lithium sequence; Oscillator strengths; Relativistic effects; Spectral series; JPCRD 5, No. 3, 537-570 (1976). SP305-8.
- Systemic effects; Corrosion; Inflammatory response; Metallic implants; SP415, pp. 45-54. SP305-7.
- Systems; Administration; Health; Hospital; Managerial applications; Model; Policies; Queuing model; Scheduling; Simulation; 12803. SP305-4.
- Systems; Analysis; Hybrid phase; Intergrowth phase; Niobium pentoxide; Preparation; Ranges of homogeneity; Stability; SP364, pp. 63-86. SP305-4.
- Systems; Attitudes; Conservation; Energy; Industrial; SI; pp. 113-117 (June 1976). SP305-8.
- Systems; Clearinghouse for Federal Scientific and Technical Information; Microphoto; Microprinting; Printing; 10730. SP305-1.
- Systems; Thinking; Information retrieval; Information storage; Mechanized; Methodology; Optical-coincidence; Patents; References; Search; 10527. SP305-1.
- Systems; Time domain; Data conversion; Dynamic measurements; Electrical measurements; Electronic instruments; Signal conditioning; TN865. SP305-7.
- Systems analysis; Alexandria; Fire department; Local Operations research; Resource allocation; Simulation; TN782. SP305-6.
- Systems analysis; Alphanumeric compression; Information coding; High-speed information transmission; Information storage and retrieval; Numeric compression; TN413. SP305-3.
- Systems analysis; Conference proceedings; Government; Operations research; M294. SP305.
- Systems analysis; Design criteria; Fire hazards; Fire losses; Reporting; Fire safety; Information systems; National Data System; Specifications; State governments; NBS-C-73-5. SP305-8.
- Systems analysis; Management science; Mathematical models; Numerical analysis; Operations research; 15607. SP305-7.
- Systems analysis; State of the art; Benefit-cost analysis; Transportation economics; Transport systems; TN294. SP305.
- Systems analysis; Systems approach; Biomedical research; "health relevance"; Program planning and budgeting; R&D management; TN761. SP305-5.
- Systems analysis; Technical Analysis Division; Cost-effectiveness; 11279. SP305-2.
- Systems analysis; Technology utilization; Vote-tallying; Computer security; Computing technology; Election administration; Public administration; State and local government; NBSIR 75-687. SP305-7.
- Systems analysis; Thermodynamic property computations; Calculated properties; Entropy of gases, saturated fluids, and liquids; Equations of state; 9798. SP305-1.
- Systems analysis; Transportation; Containerization; Maritime cargo; Mathematical models; Optimal locations; TN782. SP305-2.
- Systems analysis; Transportation planning; Urban transportation; Data processing; 9474. SP305.
- Systems analysis; Transportation planning; Travel forecasts; Urban transportation; Modal choice; 10429. SP305-1.
- Systems analysis; Transportation planning; Urban transportation; Data processing; 10164. SP305-1.
- Systems analysis; Urban analysis; East Lansing, Mich.; Facility location; Fire station; Simulation model; 12018. SP305-3.
- Systems analysis; Urban problems; Accounting models; R&D management; Facility location; Operations research; Simulation techniques; 11445. SP305-2.
- Systems analysis; Urban problems; Operations research; 16100. SP305-8.
- Systems approach; Biomedical research; "health relevance"; Program planning and budgeting; R&D management; Systems analysis; TN761. SP305-5.
- Systems approach; Building industry; Building production process; Building systems; Innovation; Performance approach; Semantics; SP361, Vol. 1, pp. 207-212. SP305-4.
- Systems approach; Technology and feasibility; User needs; Evaluation; Building systems; Criteria and tests; Educational facilities; Life cost; Performance specifications; Prototypes; S.C.S.D., R.A.S.; Strategy; SP361, Vol. 1 pp. 317-324. SP305-4.
- Systems approach; User needs; Buildings; Design process; Performance; Performance concept; Performance-judgement approach; Proposed international generic building classification



ons; Proposed international subsystem classification models; *SP361, Vol. 1*, pp. 201-206. **SP305-4.**

tems approach; User requirements; Value system; Building design; Design process; Evaluation; Performance; *SP361, Vol. 1*, pp. 237-248. **SP305-4.**

tems, building; Office buildings; Performance criteria; *4101. SP305-6.*

tems concept; Measurement; National Bureau of Standards; National Measurement System; National standards; Self-calibration; Standards, national; *11516. SP305-2.*

tems design; Building codes; Building systems; Computer systems; Performance standards; Simulation of building requirements; *SP361, Vol. 1*, pp. 213-218. **SP305-4.**

tems design; Computer; Data processing; Index; Information processing; Privacy; Requirements definition; Security; *NBSIR 75-909. SP305-7.*

tems design and evaluation; Time-sharing systems evaluation; Computer evaluation; Computer performance; Computer scheduling; Hardware monitors; Simulation of computer systems; Software monitors; *SP401. SP305-6.*

tems engineering; Building codes; Computer program; Decision theory; Networks; Specifications; Standards; *NBS-GCR-76-56. SP305-8.*

tems engineering; Building codes; Computer program; Decision theory; FORTRAN; Logic design; Networks; Specifications; Standards; *NBS-GCR-76-57. SP305-8.*

tems engineering; City planning; Human factors; Standards; *10341. SP305-1.*

tems engineering; Decisions; Gaming; Government; Management; Operations research; *10532. SP305-1.*

tems engineering; State-of-the-art reviews; Acceptability; Coding; Costs; Data transmission systems; Decisionmaking; Economics; Errors; Information theory; Input-output devices; Interfaces; Malfunctions; Man-machine systems; Remote control systems; *NBS-GCR-74-29. SP305-8.*

tems of differential equations; Numerical integration; Propagation of error; Stability; *J.71B2 & 3-204, 91-103 (1967). SP305.*

tems of distinct representatives; Term rank; Algorithms; Combinatorics; Indeterminates; Linear algebra; Matroids; *J.71B4-250, 241-245 (1967). SP305.*

tems of distinct representatives; Theory of computation; Combinatorics; Dynamic programming; Optimization; *J.74B No. 4, 243-247 (1970). SP305-2.*

tems of equations; Units; Coherent; Dimension; Quantity; Rationalization; *11766. SP305-2.*

tems of units; Units of measurement; International System of Units; Measurement units; Metric units; SI; *15481. SP305-7.*

tems technology; City design; City systems; City technology; *9688. SP305-1.*

tems technology; Technological planning; City design; City systems; *9687. SP305-1.*

- Ta; Binding energies;  $Cl^-$ ; Desorption lifetimes;  $I^-$ ; Mo; 11446. SP305-2.
- Ta target; Thermoluminescent detectors; 30 and 57.4 MeV electrons; Angular distribution; Depth-dose; Photon energy; 14040. SP305-6.
- Table; Density; Experimental; Magnetic suspension densimeter; Normal butane; Saturated liquid; 16646. SP305-8.
- Table; Torsional crystal; Viscosity; Comparisons; Graph; Methane; Saturated liquid; 14234. SP305-6.
- Table making; Accuracy of computation; Computing for non-programmers; Computing system; Data analysis; Least squares computation; OMNITAB computing system; Statistical computation; 11708. SP305-2.
- Table of Student- $t$ ; Uncertainties; Standard deviation; Statistics; Student- $t$ ; *J.73C Nos. 1 and 2, 15-16* (1969). SP305-1.
- Table saws; Accident research; Consumer products; Injury data; Opinion survey; Portable circular saws; Power saws; Radial arm saws; Safety; *NBSIR 75-748*. SP305-7.
- Tables; Accuracy; Atomic absorption; Detection limits; Differential method; Flame emission; Nonaqueous media; Precision; Sensitivity; 12111. SP305-3.
- Tables; Activation energies; Arrhenius equation; Bimolecular; Chemical kinetics; Data; Gas; Rate constants; Reactions; *NSRDS-NBS9*. SP305.
- Tables; Activation energies; Evaluation; Gaseous reactions; Radical reactions; Rate constants; Review; Sulfur chemistry; *J. Phys. Chem. Ref. Data 2, No. 1, 25-84* (1973). SP305-6.
- Tables; Apparatus; Density; Experimental; Magnetic suspension; Methane; Nitrogen; Saturated liquid; 16645. SP305-8.
- Tables; Computer programs; Gaseous oxygen; Graphs; Handbook thermophysical properties; Liquid oxygen; Oxygen; Property value uncertainties; Solid oxygen; 13112. SP305-5.
- Tables; Computer programs; Gaseous hydrogen; Graphs; Handbook thermophysical properties; Hydrogen; Liquid hydrogen; Ortho-para modifications; Property value uncertainties; Solid; Solid hydrogen; 15382. SP305-7.
- Tables; Force; Constants; Spectral; Molecular; Vibrational; Frequencies; Data; *NSRDS-NBS6*. SP305.
- Tables;  $\gamma$ -rays; Computers; Data; Decay; ENSDF; Evaluation; Files; Formats; Levels; Nuclear structure; Radiations; Reactions; *SP425, pp. 309-312*. SP305-7.
- Tables; Temperature; Uncertainties; Volume; Argon; Compressed liquid; Density; Density ratios; Liquid; Nitrogen, oxygen; Parahydrogen; Pressure; Saturated liquid; *TN361. (Revised). Metric Supplement*. SP305-6.
- Tables; Temperatures; Uncertainties; Volume; Volume correction factor; Argon; Compressed liquid; Density; Graphs; Liquid; Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; *TN361, Revised October 1972*. SP305-5.
- Tables; Theory; Chemical applications; Instrumentation; Mössbauer spectrometry; Nuclear parameters; Recent advances; 16332. SP305-8.
- Tables; Thermal conductivity coefficient; Transport property; Viscosity coefficient; Xenon; Argon; Correlation; Critical data evaluation; Critical point; Dense gas and liquid; Excess transport property functions; *J. Phys. Chem. Ref. Data 3, No. 4, 979-1018* (1974). SP305-6.
- Tables; Torsional crystal; Viscosity; Experimental; Fluorine; Gas; Graphs; Liquid; 14757. SP305-7.
- Tables; Truncation; Accuracy; Approximations; Asymptotic expansion; Cauchy distribution; Characteristic function; Closed forms; Contour; Convergence; Curves; Distribution function; Error; Fourier transform; *J.77B Nos. 3 and 4, 143-198* (1973). SP305-5.
- Tables; Tukey's lambda distributions; Approximations; Distributions; non-normal; Lambda distributions; Logistic distribution; Order statistics; Range; Statistics; 12603. SP305-4.
- Tables; Vibrational; Data; Frequencies; Molecular; Spectra; *NSRDS-NBS17, Part 3*. SP305-1.
- Tables for Statisticians and Biometricians; W. F. R. Wel; Bibliography; Biometrika; Chi-square tests; Correlation regression; R. A. Fisher; Francis Galton; Frequency curve; method of moments; Karl Pearson; Statistics; 14822. SP305-7.
- Tables of PBIB designs; Analysis of PBIB designs; Experimental designs; Finite fields; Finite geometries; Finite projective planes; Incidence matrices; Incomplete block designs; Partially balanced; Mathematics; Partially balanced incomplete block designs; *AMS53*. SP305-5.
- Tables of probability distributions; Transformation of variables in probability distributions; Bayes' theorem; Central limit theorem; Characteristic function of a distribution; Mathematical probability; Mean values of random variables; Probability distributions; 10926. SP305-2.
- Tables of spectral-line intensities; Wavelengths of spectral lines; Classification of spectral lines; Intensities of spectral lines; Spectral-line intensities; *Monogr. 145, Part I*. SP305-7.
- Tables of spectral-line intensities; Wavelengths of spectral lines; Classification of spectral lines; Intensities of spectral lines; Spectral-line intensities; *Monogr. 145, Part II*. SP305-7.
- Tableware; Alpha-cellulose-filled, heavy-duty; Heavy-duty alpha-cellulose-filled melamine tableware; Melamine tableware; *PS25-70*. SP305-2.
- Tabulation; Basing connections; Characteristics; Electron tubes; Similar types; *H103*. SP305.
- Tabulation; Characteristics tabulation; Electron tubes; Microwave electron tubes; *H104*. SP305.
- Tabulations; X rays; Atomic form factor; Compton scattering; Cross sections; Gamma rays; Incoherent scattering functions; Rayleigh scattering; *J. Phys. Chem. Ref. Data 4, No. 3, 471-538* (1975). SP305-7.
- TACSAT satellite; Time; Timing accuracy; ATS satellite; L-6 satellite; NBS satellite timing; Satellites; 12103. SP305-3.
- Tafel plots; Tungsten bronzes; Auger electron spectroscopy; Electrochemical; Oxygen reduction; Sodium depletion; *SP4, pp. 297-303* (Nov. 1976). SP305-8.
- Tagatose; Cyclic acetals; Hex-3-enulopyranose; Hexodialulose; Hexulose; Pscose; Stereospecific reduction; 12436. SP305.
- Taguchi gas sensors; Detectors; Fire detectors; Gas detectors; Smoke detectors; *NBSIR 76-990*. SP305-8.
- Taguchi gas sensors; Fire detectors; Ionization chamber smoke detectors; Photoelectric smoke detectors; Smoke detectors; *NBSIR 75-700*. SP305-7.
- TAI; Television T/F dissemination; Thallium beam standard; Time; Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; Time scales; "unified standard"; URSI; USA standard time zones; UTC (NBS); US (USNO); Accuracy; *Monogr. 140*. SP305-6.
- Tait equation; Toluene; Carbon disulfide; Carbon tetrachloride; Clausius-Mossotti; Density; Dielectric constant; Dipole moment; Isopentane; Polarizability pressure; Slightly polar liquids; 11066. SP305-2.
- Talk; Biography; Career; Cryogenic engineering; Memoir; R. S. Sell B. Scott; 11344. SP305-2.
- Tall buildings; Accident occurrence; Building; Gas explosion hazards; Progressive collapse; 14105. SP305-6.
- Tall buildings; Turbulence; Wind (meteorology); Acceleration aerodynamics; Building (codes); Deflection; Dynamic structural analysis; Pressure; Spectra; Structural engineering; 14534. SP305-6.
- Tall buildings; User requirements; Building; Performance criteria; Performance evaluation; Structure; 12779. SP305-6.
- Tall buildings; Wind effects; Wind loads; Wind tunnel; Meteorological data; Meteorology; 14104. SP305-6.
- Tall buildings; Wind profiles; Boundary layer; Hurricane loads (forces); Natural disasters; Structural analysis; 14603. SP305-6.

- buildings; Wind profiles; Boundary layer; Hurricanes; Roads (forces); Natural analysis; 15899. SP305-8.
- Super-resistant; Television; Safeguards; Surveillance; *NBSIR* 5-707. SP305-7.
- 6; Torsion pendulum; Varying crystallinities; Apparatus; thermally crystallized sample; Loss compliance; Loss modulus; Mechanical relaxation; Polychlorotrifluoroethylene; Unetched sample; Storage modulus; 9441. SP305.
- dem Mossbauer spectrometer; Velocity calibration; Mossbauer; Spectroscopy; Standard; Differential chemical shift; Quadrupole splitting; Random error; Systematic error; Sodium nitroprusside; Iron compounds; Optical Mossbauer spectrometer; *M260-13*. SP305.
- ck circuit; FET; Pi network; 16580. SP305-8.
- cks; Chemical-resistant; Contact-molded; Ducts; Equipment; Plastic; Reinforced-polyester; *PS15-69*. SP305-2.
- cks; Valves; Bowls; Brass; Dimensions; Nuts; Plastic; Plumbing equipment; *PS6-66*. SP305.
- talates; Alkali ions; Ionic conductors; Niobates; 14185. SP305-6.
- talum; Activation energy; Carbon monoxide; High temperature; Mass spectrometry; Surface reaction; 11115. SP305-2.
- talum; Boron carbides; Capture cross sections; CFRMF reactor; Control materials; Europium oxides; Fast reactors; Neutron reactions; *SP425*, pp. 908-911. SP305-7.
- talum; Cross sections; Fluorine; Neutron-induced low-energy photons; *SP425*, pp. 762-765. SP305-7.
- talum; Electron affinities; Self-surface ionization; Singly charged positive and negative atomic ions; Sublimation energies; 12747. SP305-4.
- talum; Emission; High-speed measurements; High temperature; Melting point; Pyrometry; Radiance temperature; 6426. SP305-8.
- talum; Ionization energy; Nuclear moment; Spectrum; 5381. SP305-7.
- talum; Spectra; 14894. SP305-7.
- talum; Temperature measurements; Tungsten-rhenium alloys; Beryllium oxide; Emf drift; Sheathed thermocouples; 4377. SP305-6.
- talum; Temperature measurements; Thermal emf drift; Tungsten-rhenium alloys; Beryllium oxide; Refractory metals; Sheathed thermocouples; 15797. SP305-8.
- talum; Tensile properties; Evaluation; High temperature tests; Molybdenum; Plastic flow; Poisson ratio; Refractory metals; Strain hardening; Strain rate; Stress strain diagrams; 3819. SP305-6.
- talum; Terbium; Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; Diffusion; Electromigration; *J. Phys. Chem. Ref. Data* 4, No. 1, 177-250 (1975). SP305-7.
- talum; Thallium; Tungsten; Wavelengths; Ytterbium; Bismuth; Gold; Hafnium; Ionization energies; Iridium; Lead; Lutetium; Mercury; Osmium; Platinum; Rhenium; 16420. SP305-8.
- talum; Thermal radiation properties; Emission; High-speed measurements; Melting; Normal spectral emittance; 12307. SP305-3.
- talum; Thermal radiation properties; Thermodynamics; Electrical resistivity; Emission; Heat capacity; High-speed measurements; High temperature; *J75A No. 1, 1-13* (1971). SP305-3.
- talum; Thermodynamics; Heat capacity; High-speed measurements; High temperature; 11871. SP305-3.
- talum; Tin; Aluminum; Beryllium; Cobalt; Copper; Compilation; Electrical resistivity; Gold; Indium; Iron; Lead; Low temperature; Magnesium; Molybdenum; Nickel; Niobium; Platinum; Silver; *TN365*. SP305-1.
- talum; Tungsten; Electronic density of states; Fermi energy; Molybdenum; Photoemission; *SP323*, pp. 53-56. SP305-4.
- Tantalum; Zirconium; Aluminum; Composites; Coupling agents gold; Mercaptan; Methacrylates; Polymers; Resin; Silane; 13620. SP305-5.
- Tantalum carbide; Transition metal compounds; Vanadium carbide; Carbides; Electron diffraction; Interpretation of ordering effects; Niobium carbide; Ordering effects; Superlattice; *SP364*, pp. 583-590. SP305-4.
- Tantalum carbide; Tungsten carbide; Vanadium carbide; Carbide; Crystal structure; Molybdenum carbide; Niobium carbide; Reaction mechanism; Solid state; *SP364*, pp. 561-566. SP305-4.
- Tantalum compounds; Titanium compounds; Vanadium compounds; Yttrium compounds; Zirconium compounds; Enthalpy; Entropy; Gibbs energy of formation; Hafnium compounds; Heat of formation; Niobium compounds; Scandium compounds; *TN270-5*. SP305-3.
- Tantalum hydrides; Vibrational amplitude; Activation energy; Hydrogen diffusion; Neutron scattering; Quasielastic scattering; Resonance time; 15264. SP305-7.
- Tantalum oxide; High temperature polymorph; Single crystals; Stabilization; *J74A No. 4, 477-484* (1970). SP305-2.
- Tantalum oxide; Low temperature polymorph; Single crystals; Stabilization; *J74A No. 4, 485-493* (1970). SP305-2.
- Tantalum oxide; Tantalum tungsten system; Crystal structure; Non-stoichiometry; Order oxygen vacancies; 11558. SP305-2.
- Tantalum pentoxide; Titanium dioxide; Phase equilibria; Polymorphism; *J72A No. 2, 175-186* (1968). SP305-1.
- Tantalum (Ta); Tantalum-rhenium (Ta-Re) alloys; Ta-Re alloys; Augmented plane wave method (APW); Debye temperatures; Electronic density of states; Electron-phonon coupling constant; Electronic specific heat; *SP323*, pp. 565-568. SP305-4.
- Tantalum (Ta); Thermal conductivity; Thermoelectric power; Transition metal; Transport properties; Tungsten (W); Chromium; Electronic density of states; Iridium; Low-temperature specific heat; Magnetic susceptibility; Molybdenum; *SP323*, pp. 685-690. SP305-4.
- Tantalum-rhenium (Ta-Re) alloys; Ta-Re alloys; Augmented plane wave method (APW); Debye temperatures; Electronic density of states; Electron-phonon coupling constant; Electronic specific heat; Superconducting transition temperatures; *SP323*, pp. 565-568. SP305-4.
- Tantalum-tungsten (Ta-W); Ti-Mo; Titanium-molybdenum (Ti-Mo) alloy; Tungsten (W); W-Re; Alloys; Bcc transition metal alloys; Charging effect; Electronic density of states; Ginzburg-Landau coherence length; G.P. zone; *SP323*, pp. 587-596. SP305-4.
- Tantalum tungsten system; Crystal structure; Non-stoichiometry; Order oxygen vacancies; Tantalum oxide; 11558. SP305-2.
- Tape; Temperature; Tension; Graduation; Length; Scale; *NBSIR 74-451*. SP305-6.
- Tape; Thermal radiant-energy response; Thermal transient response; Transducers; Zero shift; Coatings; Dynamic; Dynamic response; Pressure transducer; Protective coatings; Shock tube; *NBSIR 76-1144*. SP305-8.
- Tape recorder; Telephone; Transmitter; Wiretapping; Body worn antenna; Bugging; Eavesdropping; Electronic surveillance; Microphones; Receiver; 16237. SP305-8.
- Tape recording; Acoustic measurements; Calibrated tape recordings; Data acquisition; Magnetic recording; Psychoacoustic data; Recordings in the field; *TN718*. SP305-4.
- Tapered inlets; Culverts; Hood inlets; Hydraulics; 9727. SP305-1.
- Tapered rods; Aluminum; Experiments; Longitudinal impact; Numerical solution; One-dimensional; Plastic-wave propagation; Rate-independent theory; *J72C No. 4, 231-241* (1968). SP305-1.

- Ta-Re alloys; Augmented plane wave method (APW); Debye temperatures; Electronic density of states; Electron-phonon coupling constant; Electronic specific heat; Superconducting transition temperatures; Tantalum (Ta); *SP323*, pp. 565-568. **SP305-4.**
- Target current; Derivative signal; Electron probe; Image; Scanning electron microscope; Secondary electrons; *11540*. **SP305-2.**
- Target current scanning; Trace analysis; X-ray absorptiometry; X-ray fluorescence analysis; X-ray scans; Analytical curve functions; Color composite; Computer programs; Electron probe; Gold analysis; Isotope dilution method; Laser probe; *TN502*. **SP305-2.**
- Target thickness; Energy loss; Ionization loss; Most-probable energy loss; *15360*. **SP305-7.**
- Targets; Thick targets; Electrons; MeV electrons; *14572*. **SP305-6.**
- Tarnish film; Copper; Cupric acetate; Kinetics; Oxidation; Stress corrosion; *12493*. **SP305-4.**
- Task contrast; Veiling reflections; Visual performance; Visual task; Illumination systems; Lighting; Performance concept; *SP361*, Vol. 1, pp. 483-490. **SP305-4.**
- Task Force on Automation; Automatic data processing; Automation of library functions; Federal libraries; Federal Library Committee (FLC); Library automation; System design for libraries; *12004*. **SP305-3.**
- Task force on automation; Automation of library operations; Federal Library Committee; Field libraries; FLC; Library automation; *14614*. **SP305-6.**
- Task group collaboration; Computer network; Interpersonal communications; *14117*. **SP305-6.**
- TAUT; Thermal effects; Tissue; Tumor; Ultrasonic; Velocity; Absorption; Attenuation; Brain; Neoplasia; *SP453*, pp. 153-163 (Oct. 1976). **SP305-8.**
- Tautomerism; Dipole moment; Microwave spectrum; Pyrazole; Stark effect; Structure; *10475*. **SP305-1.**
- Tautomerism; Ultraviolet spectra; Diphenylformazans; Enolic phenylhydrazono-phenylazo structure; Infrared spectra; Molecular structure; Nuclear magnetic resonance; Oxobis(phenylhydrazono) compounds; Phenylhydrazono-phenylazo tautomerism; Phenyllosazones; *10286*. **SP305-1.**
- Ta-W alloy; Electrical resistivity; Emission; High-speed measurement; High temperature; Specific heat; *13373*. **SP305-5.**
- Tax credit; Vapor barriers; Weatherstripping; Caulks and sealants; Clock thermostats; Energy conservation; Insulation; Retrofitting; Storm doors; Storm windows; *NBSIR 75-795*. **SP305-7.**
- Taxonomy of integrity flaws; UNIVAC 1100 Series OS; BBN-TENEX; IBM OS/360; Operating system security; Security flaws; Software security; *NBSIR 76-1041*. **SP305-8.**
- Taylor series; Iterated integrals; Remainders; *J72B No. 1*, 5 (1968). **SP305-1.**
- Taylor's approximation; Turbulence; Wind tunnel; Computer; Correlations: Even-order, odd-order, space-time; Hot-wire anemometer; *9730*. **SP305-1.**
- Ta<sub>2</sub>O<sub>3</sub>-ZrO<sub>2</sub>; Equilibrium; Nb<sub>2</sub>O<sub>5</sub>-ZrO<sub>2</sub>; Ordered defects;  $\alpha$ -PbO<sub>2</sub>-type phase(s); Single crystals; Superstructure; *SP364*, pp. 183-195. **SP305-4.**
- Ta<sub>25</sub>W<sub>75</sub>O<sub>67</sub>; Crystal structure; System Ta<sub>2</sub>O<sub>5</sub>-WO<sub>3</sub>; *12763*. **SP305-4.**
- Ta<sub>20</sub>W<sub>80</sub>O<sub>61</sub>; Crystal structure; System Ta<sub>2</sub>O<sub>5</sub>-WO<sub>3</sub>; *12762*. **SP305-4.**
- Ta<sub>20</sub>WO<sub>60</sub>; Crystal structure; System Ta<sub>2</sub>O<sub>5</sub>-WO<sub>3</sub>; *12760*. **SP305-4.**
- TbPO<sub>4</sub>; Antiferromagnet; Canted antiferromagnet; Heat capacity; Magnetic moment; Magnetic susceptibility; Metamagnet; Optical spectroscopy; *12410*. **SP305-4.**
- t-butyl ion; Carbonium ions; Ion-molecule reactions; Neopentane; Radiolysis; Rate constants; *11854*. **SP305-3.**
- t-butyl radical; Thermal decomposition; 2,2,3-trimethylpentane; Bond energy; Cyclohexyl radical; 3,4-dimethylhexa; Heats of formation; n-propyl radical; s-butyl radical; Sh; tube; *12562*. **SP305-4.**
- t-butyl radical decyclization; 2,2,3-trimethylbutane; Bond energy; Cyclohexane; Decomposition; Gas phase; Isopropyl radical; Shock tube; *12831*. **SP305-4.**
- T-butyl radicals; Thermal decomposition; 1-butene; 1,5-hexadiene; 4-methylpentene-1; 4,4-dimethylpentene-1; Allyl radicals; Allylic resonance energy; Single pulse shock tube; *10105*. **SP305-1.**
- t-butyl radicals; 2,2,3-trimethylbutane; Bond energies; Decomposition; Hexamethylthene; Isopropyl radical; Methyl radicals; Neopentane; Pyrolysis; Shock tubes; *10106*. **SP305-1.**
- Tchebicheff Polynomial; Brownian chain; Distribution; Gaussian; Polymer; Radius of gyration; *10287*. **SP305-1.**
- TCNQ complexes; Electron transport; Magnetic properties; Metallic; *13959*. **SP305-6.**
- TCNQ compounds; Magnetic susceptibility; Organic conductors; Paramagnetism; *14350*. **SP305-6.**
- TCP; Time reversal; Decay rates; Symmetry; *10866*. **SP305-2.**
- TEA laser; Alkali halides; Infrared windows; Laser damage; *SP387*, pp. 170-174. **SP305-5.**
- TEA laser; BCl<sub>3</sub> (boron trichloride); Boron; CO<sub>2</sub> (carbon dioxide); Enrichment; Infrared; Isotopes; *15270*. **SP305-7.**
- Teaching method; Architectural-design teaching; Assembly; Design critiques; Feedback; *16020*. **SP305-8.**
- Teaching metric; Cryogenic fluid; Door locks; Energy; Electrical supplement; High winds; Home security; Nondestructive evaluation; Research associate program; School system; Smoke detectors; *DIM/NBS 60*, No. 4, 1-24 (1976). **SP305-8.**
- Teaching sample; Word-term pairing; Automatic indexing; COBOL; Document records; Programming; Statistical analysis; *12858*. **SP305-4.**
- Team development; Coast Guard; Development; Interdisciplinary team; Management science; Model building; Organizational search and rescue; Simulation; *12243*. **SP305-3.**
- Tear reference; Testing program; Appearance properties; Paper research; Preservation of records; *11842*. **SP305-3.**
- Tear strength; Testing; Aging; Alkalinity; Burst strength; Degradation; Differential thermal analysis; Durable; Manifold papers; Loads; PH; Reflectance; Stability; Storage; *12834*. **SP305-4.**
- Tearing; Vibratory apparatus; Adhesion; Cavitation; Coatings; Design charts; Elastomers; Erosion; Hopkinson pressure apparatus; Impedances; Mismatching; Stress wave interactions; Substrates; *SP452*, pp. 120-123 (Sept. 1976). **SP305-8.**
- Technetium; Atomic spectra; Energy levels, Tc I; Spectrum; Technetium; *J72A No. 6*, 559-608 (1968). **SP305-1.**
- Technetium; Tungsten; Activation analysis; Molybdenum; Radiochemistry; Solvent extraction; *11462*. **SP305-2.**
- Technetium; spectra of; Wavelengths of technetium; Spectra; Technetium; *J71A6-471*, 547-565 (1967). **SP305.**
- Technetium-99m; Tin-113; Dose calibrators; Indium-113; Molybdenum-99; Nuclear medicine; Radiopharmaceuticals; *TN791*. **SP305-5.**
- Technical; Technology; Zoning; Building code; Climate; Control; Coordinate; Economics; Geography; Political; *95*. **SP305-1.**
- Technical aid; Adobe; Cane; Earthquake; Housing; *PE SP444*, pp. VI-16—VI-24 (Apr. 1976). **SP305-8.**
- Technical aid; Volcanoes; Field observation; Indonesia; Japan; *SP444*, pp. VI-1—VI-15 (Apr. 1976). **SP305-8.**
- Technical analysis; Temperature; Air flow rate; Electric mechanical and thermal hazards; Hair dryer/stylers; Heat flux; Safety; *NBSIR 76-1112*. **SP305-8.**
- Technical Analysis Division; Cost-effectiveness; Systems analysis; *11279*. **SP305-2.**



Technical application; Innovation; Invention; Inventors; 9664. SP305-1.

Technical bases; Building research; Building technology; Codes; Criteria; Project summaries; Standards; SP446. SP305-8.

Technical education; U.S. AID; Calibration and testing; Ecuadorian Institute of Standardization (INEN); Field inspections; Mass, length, and volume standards; Metrology laboratory; Model law and regulations; 13777. SP305-5.

Technical evaluation; Uniformity of assessment; Weathering; Permeability; Durability prediction; Economic aspects; Evaluation; judgement; Need for clarity of purpose; Performance assessment; Plastics in fire; Rain penetration; SP361, Vol. 1, pp. 11-502. SP305-4.

Technical highlights; Annual report; SP340. SP305-3.

Technical highlights; Annual report; M283. SP305.

Technical highlights; Annual report; M293. SP305.

Technical highlights; Annual report; SP308. SP305-1.

Technical highlights; Annual report; SP325. SP305-2.

Technical information; Data systems; Information handling experts; 10812. SP305-1.

Technical information; Information packages; Information policy; Information systems; Information users; OECD; 13695. SP305-5.

Technical information; Information packages; Information policy; Information systems; Information users; OECD; 12636. SP305-4.

Technical information center; Bibliography service; Cryogenics; Current awareness; Data center; Data evaluation; Development; Information retrieval; Operation; 11006. SP305-2.

Technical information center; COPANT; Housing problems; Industrialized building; Latin America; 10679. SP305-1.

Technical information sources; Chemical engineering information; Data; Information analysis centers; Information systems; Survey; 12710. SP305-4.

Technical innovations; Antitechnical crisis; Industrial laboratories; Industrial research; Scientist-inventor; SP388, pp. 159-164. SP305-6.

Technical literature; Abstract journal; Evaluation; Dissemination; Information analysis; Redesign; Scientific information; 101. SP305-2.

Technical personnel; Environment; Personnel; Professional environment; Professional personnel; Scientists and engineers; Standing committee; 9271. SP305.

Technical requirements; Technology; Universal product coding; Weights and measures; Administration; Automated checkstand systems; Conference; Consumers; Laws and regulations; Metrication; Open dating; Procedures; SP391. SP305-

Technical requirements; Tolerances; Commercial weighing and measuring devices; Specifications; H44. SP305-3.

Technical requirements, weights and measures; Weights and measures; Administration, weights and measures; Conference, weights and measures; Laws, weights and measures; SP358. SP305-4.

Technical societies; Computer measurement; SP406, pp. 151-153. SP305-7.

Technical strategy; Design; Development; Fabrication; Life cycle costing; Materials policy; Nondestructive evaluation; Performance; Processing; 15873. SP305-8.

Technical skills; U.S. Air Force; Audit examinations; Audit package; Precision Measurement Equipment Laboratories (PMEL); SP335, pp. 105-109. SP305-3.

Technique; Atomic physics; Colliding beams; Review; 10914. SP305-2.

Technique; Infrared; Low-temperature; Measurement; Spectral reflectance; Stainless steel; 11347. SP305-2.

Technique used; Activation analysis; Bibliography; Element determined; Literature file; Matrix analyzed; TN467. SP305-

Technique used; Activation analysis; Bibliography; Element determined; Literature file; Matrix analyzed; TN467, Part 1. SP305-3.

Technique used; Activation analysis; Bibliography; Element determined; Literature file; Matrix analyzed; TN467, Part 2. SP305-3.

Technique used; Activation analysis; Bibliography; Element determined; Literature file; Matrix analyzed; TN467, Part 1. SP305-1.

Technique used; Activation analysis; Bibliography; Element determined; Literature file; Matrix analyzed; TN467, Part 2. SP305-1.

Technique used; Activation analysis; Element determined; Matrix analyzed; Pollution analysis; TN532. SP305-2.

Technique used; Activation analysis; Element determined; Matrix analyzed; Oceanography; TN534. SP305-2.

Technique used; 14-MeV neutron generators; Activation analysis; Element determined; Matrix analyzed; TN533. SP305-2.

Techniques; Application; Charged particle; Cross section; Emission; Neutron; SP425, pp. 156-160. SP305-7.

Techniques; Ceramics; Failure prediction; Fracture mechanics; Materials development; 14260. SP305-6.

Techniques; Computer simulation; Live and fire loads; Occupancy; Stochastic predictive models; Survey; 14102. SP305-6.

Techniques; Time standard; Frequency; Laser; Laser frequency measurement; Stabilization; 12135. SP305-3.

Techniques of vacuum measurement; Vacuum index; Vacuum measurement; Bibliography; Low pressure measurement; Mono. 35, Supplement 1. SP305.

Technological aid; Earthquake; Japan; Natural disaster; Storm; Structural engineering; SP444, pp. VI-25-VI-31 (Apr. 1976). SP305-8.

Technological change; Administrative experiment; American National Standards Institute; Experimental Technology Incentives Program; Nuclear Regulatory Commission; Standards development; NBS-GCR-ETIP 76-16. SP305-8.

Technological change; Creative engineering; Engineering education; Innovation; Invention; 10536. SP305-1.

Technological change; Decisionmaking; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Policies; Private sector; R&D; NBS-GCR-ETIP 76-03. SP305-8.

Technological change; Decisionmaking; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Policies; Private sector; R&D; NBS-GCR-ETIP 76-04. SP305-8.

Technological change; Experimental Technology Incentives Program; Federal policies; Innovation loans; R&D; Small business; Small Business Administration; NBS-GCR-ETIP 76-11. SP305-8.

Technological change; Technology; Demonstration projects; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Guidelines; Policies; R&D; NBS-GCR-ETIP 76-05. SP305-8.

Technological change; Technology; Demonstration projects; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Guidelines; Policies; R&D; NBS-GCR-ETIP 76-06. SP305-8.

Technological change; Technology subsidies; Venture capital; Capital market imperfections; Federal technology policy; SBIC's; Securities and tax regulation; Small firm finances; NBS-GCR-ETIP 76-08. SP305-8.

Technological change; Technology subsidies; Venture capital; Capital market imperfections; Federal technology policy; SBIC's; Securities and tax regulation; Small firm finances; NBS-GCR-ETIP 76-12. SP305-8.

Technological design; Architectural design; Design systems; 9686. SP305-1.

Technological entrepreneur; Corporation; Employed inventor; Innovation; Invention; Research director; *SP388*, pp. 145-149. **SP305-6.**

Technological innovation; Bibliography, technological innovation; Innovation, technological; *NBS-GCR-ETIP 73-03*. **SP305-8.**

Technological innovation; Business management; Inventor-entrepreneur; National priorities; National problems; *SP388*, pp. 31-36. **SP305-6.**

Technological innovation; Civilian, technological innovation; Social purposes, civilian; *NBS-GCR-75-42*. **SP305-8.**

Technological innovation; Experimental Technology Incentives Program; Inventors; National Bureau of Standards; Office of Invention and Innovation; *SP388*, pp. 131-135. **SP305-6.**

Technological innovation; Technology transfer programs; Government patent policy; Government R. & D.; Technology enhancement efforts; *SP388*, pp. 5-6. **SP305-6.**

Technological measurements; Transfer of technology; *10487*. **SP305-1.**

Technological measurements and standards; Performance standards; *11362*. **SP305-2.**

Technological planning; City design; City systems; Systems technology; *9687*. **SP305-1.**

Technological policy making; Technology; Antitrust doctrine; Employed inventors; Entrepreneurship; Innovation; Invention; Needs of society; New enterprises; Patent Office; Patent system; *SP388*. **SP305-6.**

Technological policy making; Technology assessment program; Experimental incentives programs; Federal incentives; *SP388*, pp. 17-20. **SP305-6.**

Technologies; Dehumanization; Deterrent; *15198*. **SP305-7.**

Technologist; X-ray departments; X-ray trends; Diagnostic; Nationwide evaluation; Physician; *SP456*, pp. 147-152 (Nov. 1976). **SP305-8.**

Technology; Annual report; Computer; Energy; Environment; Measurement; Product safety; Research; Science; Standards; *SP437*. **SP305-7.**

Technology; Antitrust doctrine; Employed inventors; Entrepreneurship; Innovation; Invention; Needs of society; New enterprises; Patent Office; Patent system; Technological policy making; *SP388*. **SP305-6.**

Technology; Artifacts; Balance; Computer; Impermanence; Intelligence; Power; Science; *15199*. **SP305-7.**

Technology; Biomedical; Conference; Cross section; Nuclear; Standards; *SP425, Volumes I and II*. **SP305-7.**

Technology; Biopolymers; Dipole moments; Effects of radiation; Relaxation phenomena; Semiconducting polymers; *10466*. **SP305-1.**

Technology; Civilian R&D policy; ETIP; Incentives; Innovation; Procurement policy; Regulatory policy; Small business policy; *NBSIR 75-778*. **SP305-7.**

Technology; Cryogenic; Gas industry; Liquefied natural gas; Research; Survey; *15468*. **SP305-7.**

Technology; Demonstration projects; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Guidelines; Policies; R&D; Technological change; *NBS-GCR-ETIP 76-05*. **SP305-8.**

Technology; Demonstration projects; Experimental Technology Incentives Program; Federal funding of civilian R&D; Federal policies; Guidelines; Policies; R&D; Technological change; *NBS-GCR-ETIP 76-06*. **SP305-8.**

Technology; Environmental pollution; Performance specifications; Product performance; *12570*. **SP305-4.**

Technology; Performance standards; Pollution; *12637*. **SP305-4.**

Technology; Standardization; Experimental incentive program; Metrication; *13050*. **SP305-4.**

Technology; Technology assessment; Product performance; *12543*. **SP305-4.**

Technology; Terminology; Data base; Data integration; Information; Modelling; *16329*. **SP305-8.**

Technology; Transfer; Innovation; Procurement; Specific Standards; *15595*. **SP305-7.**

Technology; Transportation; Transportation technology; U.S. transportation; Future transportation; Regional transportation; *10342*. **SP305-1.**

Technology; Trends in science; Bioengineering; Budgetary environment; Social needs; *10789*. **SP305-1.**

Technology; Universal product coding; Weights and measures; Administration; Automated checkstand systems; Consumer; Laws and regulations; Metrication; Open Procedures; Technical requirements; *SP391*. **SP305-6.**

Technology; Weights and measures; Administration; Reference; Laws; Procedures; Regulations; Requirement; *SP379*. **SP305-5.**

Technology; World trade; Developing countries; International standards; Role of government; Role of private enterprise; *M284*. **SP305.**

Technology; Zoning; Building code; Climate; Control; Coordinate; Economics; Geography; Political; Technical; *SP305-1.*

Technology and civilization; Preventive technology; Scientific; Society and science; *16300*. **SP305-8.**

Technology and feasibility; User needs; Bid evaluation; Business systems; Criteria and tests; Educational facilities; Life Performance specifications; Prototypes; S.C.S.D., R. Strategy; Systems approach; *SP361, Vol. 1* pp. 317. **SP305-4.**

Technology assessment; Business and industry; Economy; cation; International relations; International standards; International trade; Metric; *12491*. **SP305-4.**

Technology assessment; Business and industry; Economy; cation; International relations; International standards; International trade; Metric; *12586*. **SP305-4.**

Technology assessment; Economic factors; Measurement; Surface finish; Surface roughness; *NBSIR 75-778*. **SP305-8.**

Technology assessment; Engineering education; Solid waste disposal; *13974*. **SP305-6.**

Technology assessment; Flow measurement study; Fluid measurement system; Measurement system identity; *15305-7*. **SP305-7.**

Technology assessment; Imaging optics; Lens testing; Microscopy resolution charts; National Measurement System; Photographic density; *NBSIR 75-942*. **SP305-8.**

Technology assessment; Product performance; Technological; *12543*. **SP305-4.**

Technology assessment; User experience; Auditing; Cost/benefit analysis; Data base; Data base management; DBMS; Government regulation; Management objectives; Privacy; Security Standards; *SP451*. **SP305-8.**

Technology assessment program; Experimental incentives programs; Federal incentives; Technological policy making; *SP388*, pp. 17-20. **SP305-6.**

Technology enhancement efforts; Technological innovation; Technology transfer programs; Government patent policy; Government R. & D.; *SP388*, pp. 5-6. **SP305-6.**

Technology for security and privacy; Computer security; Information handling; Privacy; Safeguards for security and privacy; *16439*. **SP305-8.**

Technology implementation; Wind effects; Wind loads; Conditions and standards; Information transfer; Low-rise buildings; Pressure transducers; Socio-economic; Structural design; *B2*. **SP305-6.**

Technology incentives; Energy conservation; ETIP; Government procurement policy; Noise reduction; Performance specification; *NBS-GCR-ETIP 73-05*. **SP305-8.**

Technology incentives; Energy conservation; ETIP; Government procurement policy; *NBS-GCR-ETIP 73-06*. **SP305-8.**

nology incentives; ETIP; Government procurement; Performance specifications; Procurement mechanisms; *NBS-GCR-ETIP 73-02. SP305-8.*

nology incentives; ETIP; Government procurement policy; ise reduction; Performance specification; *NBS-GCR-ETIP 04. SP305-8.*

nology incentives; ETIP; Government-owned patents; tent screening; *NBS-GCR-ETIP 73-07, Vol. 1. SP305-8.*

nology incentives; ETIP; Government-owned patents; tent screening; *NBS-GCR-ETIP 73-07, Vol. 2. SP305-8.*

nology subsidies; Venture capital; Capital market imperfections; Federal technology policy; SBIC's; Securities and regulation; Small firm finances; Technological change; *NS-GCR-ETIP 76-08. SP305-8.*

nology subsidies; Venture capital; Capital market imperfections; Federal technology policy; SBIC's; Securities and regulation; Small firm finances; Technological change; *NS-GCR-ETIP 76-12. SP305-8.*

nology transfer; Administration; Education; Information; nagement; Public; Science; *14716. SP305-6.*

nology transfer; Information systems; Management information systems; Municipal systems; *13413. SP305-5.*

nology transfer; Innovation; Invention; Social invention; *63. SP305-1.*

nology transfer; Terminals; Acceptance tests; AID; Bolivia; INACO; Computing using Spanish; Foreign relations; International agreement; Lectures; OMNITAB II computing stem; *NBSIR 76-1176. SP305-8.*

nology transfer; U.S. foreign assistance; Computer education and training; Computer technology; Less-developed untries; *NBSIR 73-423. SP305-8.*

nology transfer; Voluntary standards; Computer science; Laboratory accreditation; Measurement; National measurement system; *14920. SP305-7.*

nology transfer; World trade; International Organization r Standardization; International standards; *10149. SP305-1.*

nology transfer programs; Government patent policy; overnment R. & D.; Technology enhancement efforts; echnological innovation; *SP388, pp. 5-6. SP305-6.*

nology utilization; Vote-tallying; Computer security; Computing technology; Election administration; Public administration; State and local government; Systems analysis; *NBSIR 687. SP305-7.*

onics; Acoustics; Coal; Earthquakes; Geologic faults; Mining; *NBS-GCR-73-18. SP305-8.*

onics; Geodesy; Geodynamics; Lasers; Metrology; Moon; *1794. SP305-8.*

onics; VLBI; Coordinate systems; Geodesy; Geodynamics; asers; *15801. SP305-8.*

onics; VLBI; Coordinate systems; Geodesy; Geodynamics; asers; *15806. SP305-8.*

beams; Composite concrete construction; Prestressed concrete beams; *BSS31. SP305-2.*

h; Adsorption; Anorganic bone mineral and dentin; Bone; alcium phosphate; Hydroxyapatite; Octacalcium phosphate; ore size distribution; Pore volume; Surface area; Surface emistry; *9899. SP305-1.*

h; Bonding; Coupling agent; Denture; Plastic; Porcelain adesion; Resin; Silane; *9494. SP305.*

h; Water vapor; Adsorption; Dental materials; Hysteresis; orption; Surface area; *13321. SP305-5.*

h; Water vapor adsorption; Adsorption theory; Aggregate, dsorption by; Collagen; Dental materials; Dentin; Enamel; urface area; *14966. SP305-7.*

ion; Ablation; Ablation-induced transition; Cross-hatched riations; *SP336, pp. 813-835. SP305-3.*

ion; Aluminum diboride;  $\alpha$ -aluminum dodecaboride; Aluminum fluoride; Bomb calorimeter; Boron trifluoride; luorine; Heat of combustion; Heat of formation; *J71A4-62, 307-315 (1967). SP305.*

Teflon; Aluminum fluoride; Carbon tetrafluoride; Fluorine; Fluorine bomb calorimetry; Graphite; Heat of combustion; Heat of formation; Hydrogen fluoride aqueous; *J71A2-440, 105-118 (1967). SP305.*

Teflon; Bomb calorimeter; Boron; Boron trifluoride; Fluorine; Heat of formation; *J71A3-451, 195-202 (1967). SP305.*

Teflon; Universal time; Frequency shift; Frequency stability; Hydrogen hyperfine transition; Hydrogen maser; Hydrogen storage; Hydrogen wall collisions; NBS-III; *12069. SP305-3.*

Teflon bonded electrodes; Nickel cobalt oxides; Oxygen evolution, Pourbaix diagram; Semiconducting oxides; Spinels; *SP455, pp. 281-288 (Nov. 1976). SP305-8.*

Teflon film; Ultraviolet degradation; Aluminum coated teflon; Electron degradation; Proton degradation; Silver coated teflon; *SP336, pp. 345-358. SP305-3.*

Teflon water sampler; Trace elements; Trace elements in water; Water; Filtering water; River water; Sampling water for trace elements; Suspended particulates in water; *SP422, pp. 439-455 (Aug. 1976). SP305-8.*

Telecommunication; Common carriers; Computer networks; Interfaces; Modems; *NBS-GCR-74-31. SP305-8.*

Telecommunication; United States; Atmospheric research; Electromagnetic; *9158. SP305.*

Telecommunications; Computer communications; Computer networking; Data communications; Networks; Performance requirements; *TN882. SP305-7.*

Telecommunications; Computer communications; Computer networking; Data communications; Networks; Performance requirements; *16551. SP305-8.*

Telecommunications; Teleprocessing; American Standard Code for Information Interchange; ASCII; Communications; Data communications equipment; Data processing terminal equipment; Data transmission; Federal information processing standards; *FIPS PUB 16. SP305-3.*

Telecommunications; Teleprocessing; American Standard Code for Information Interchange; ASCII; Character structure; Character parity sense; Communications; Data transmission; Federal information processing standards; Serial-by-bit; *FIPS PUB 17. SP305-3.*

Telecommunications; Teleprocessing; American Standard Code for Information Interchange; ASCII; Character structure; Communications; Data transmission; Federal information processing standards; Parallel-by-bit; Parity sense; *FIPS PUB 18. SP305-3.*

Telecommunications; Teleprocessing; Terminology; Vocabulary; Computer networks; Glossary; *TN803. SP305-6.*

Telecommunications; Transmission lines; Cables; Coaxial; Cryogenic; Miniature; Pulse delay; Superconducting; *13338. SP305-5.*

Telemetering; Test method; Transducer; Calibration; Dynamic calibration; Electro-mechanical; Performance; Pressure; *10666. SP305-1.*

Telemetry; Device; Field; Hazards; Line; Meter; *9318. SP305.*

Telemetry; Transducer; Dynamic calibration; Evaluation; InterAgency Transducer Project; Performance characteristics; *TN469. SP305-1.*

Telemetry, novel form of; Device, electroexplosive ordnance; Field, near-zone electromagnetic; Hazards, electromagnetic radiation; Line, nonmetallic electrical transmission; Line, semiconducting plastic transmission; *J71C1-443, 51-57 (1967). SP305.*

Telemetry, novel form of; Device, electro-explosive ordnance; Field, near-zone electromagnetic; Hazards, electromagnetic radiation; Line, non-metallic electrical transmission; Line, semi-conducting plastic transmission; Meter, electric field-strength; *TN345. SP305.*

Telephone; Transmitter; Wiretapping; Body worn antenna; Bugging; Eavesdropping; Electronic surveillance; Microphones; Receiver; Tape recorder; *16237. SP305-8.*

- Telephone cables; Underground; Alloys; Corrosion; Metallurgically-bonded; Metals; Plastic-bonded; Soils; 16352. SP305-8.
- Telephone industry and specialized carriers; Time and frequency; Time scales; Users of NBS radio broadcasts; Atomic frequency standards; Aviation industry; Electric power industry; National Measurement System; Position location; Shipping and boating industries; SP445-1. SP305-8.
- Telephone lightning arrester, impulse testing; Test circuit, telephone arrester; Gas tube arresters, impulse testing; Impulse test circuit, gas tube arresters; Impulse testing, lightning arresters, telephone; Lightning arrester, telephone; 12600. SP305-4.
- Telephone systems; Computers; Information systems; Mass transportation; NBSIR 75-665. SP305-7.
- Telephony; Measures of speech quality; Perception of speech; Sound reproduction; Speech communication; Speech intelligibility; 10524. SP305-1.
- Teleprocessing; Access procedures; Command language; Computer networks; Job control language; Macros; Minicomputers; Protocols; TN917. SP305-8.
- Teleprocessing; American Standard Code for Information Interchange; ASCII; Communications; Data communications equipment; Data processing terminal equipment; Data transmission; Federal information processing standards; Serial-by-bit; FIPS PUB 16. SP305-3.
- Teleprocessing; American Standard Code for Information Interchange; ASCII; Character structure; Character parity sense; Communications; Data transmission; Federal information processing standards; Serial-by-bit; Telecommunications; FIPS PUB 17. SP305-3.
- Teleprocessing; American Standard Code for Information Interchange; ASCII; Character structure; Communications; Data transmission; Federal information processing standards; Parallel-by-bit; Parity sense; Serial-by-character; FIPS PUB 18. SP305-3.
- Teleprocessing; Communication; Information processing; Languages; Man-machine relationships; 12021. SP305-3.
- Teleprocessing; Data communication equipment; Data processing terminal equipment; Data transmission (voice band); Federal Information Processing Standards; Synchronous signaling rates; FIPS PUB 22. SP305-4.
- Teleprocessing; Terminology; Vocabulary; Computer networks; Glossary; Telecommunications; TN803. SP305-6.
- Teleprocessing; Wide band; Data communication equipment; Data processing terminal equipment; Data transmission (high speed); Federal Information Processing Standards; Synchronous signaling rates; FIPS PUB 37. SP305-7.
- Teleprocessing system; Computer; MOBIDIC-B; 14121. SP305-6.
- Teleprocessor; Analytical chemistry; Computer; Data acquisition; Laboratory automation operating system; 15136. SP305-7.
- Teleprocessor; Computer control; Laboratory automation; 14264. SP305-6.
- Telescope search; Fulvene; Interstellar molecules; Nitric acid; Radio astronomy; Rotational transitions; 14403. SP305-6.
- Telescopes; Wavefront shearing interferometer; Aberration of telescopes; Interferometer; Shearing interferometer; 11110. SP305-2.
- Teletype; Time-sharing; Remote access; TN419. SP305-1.
- Teletypewriter; Digital instruments; Digital multichannel pulse-height analyzer; Multichannel analyzers; Nuclear instruments; 10785. SP305-1.
- Teletypewriter interface; Time-shared computer; Computer-controlled experiment; Data acquisition system; Digital scanner; Experiment-computer interface; Hall effect; System control module; TN510. SP305-1.
- Teletypewriters; Coding; Interfaces; Modems; Signal processing; Standards; NBS-GCR-74-30. SP305-8.
- Television; Crystal oscillator; Frequency calibrator; Frequency offset; NBS traceability; Phase comparison; 15140. SP305-7.
- Television; Crystal oscillator; Frequency calibration; Netu- originated programs; NBS traceability; Phase comparison; 15682. SP305-7.
- Television; Safeguards; Surveillance; Tamper-resistant; NBS 75-707. SP305-7.
- Television; Time; Frequency and time code; 11878. SP305-7.
- Television; Time and frequency dissemination; TVTime; Di code; Integrated circuit chip; Program captioning; 13 SP305-5.
- Television; Vertical interval signals; Frequency and time dissemination; 11949. SP305-3.
- Television cameras; Automation; Computers; Data acquisition; Emission spectroscopy; Microphotometers; Spectrochemical analysis; 11756. SP305-2.
- Television color subcarrier; Time; Dissemination; Frequency synthesizers; Linear phase comparators; 12 SP305-3.
- Television color subcarrier; Time; Dissemination; Frequency synthesizers; Linear phase comparators; 14 SP305-6.
- Television color subcarrier; Time calibration; Time signal; Broadcast of standard frequencies; Frequency calibration; High frequency; Low frequency; Standard frequency; SP432. SP305-8.
- Television microscopes; Analysis of microstructures; Autometric image analysis; Gestalt of a material; Microarchitecture; Microscopy; Scanning microscopes; 12664. SP305-4.
- Television microscopes; Analysis of microstructures; Autometric image analysis; Gestalt of a material; Microarchitecture; Microscopy; Scanning microscopes; 12702. SP305-4.
- Television receiver; Color subcarrier; Frequency calibration; Frequency comparator; Frequency measurements; Oscillator calibration; Phase comparison; U.S. Patent 3,958,269. SP305-8.
- Television systems; Variability; Variance (statistics); Variations; Anisotropy; Automation; Computers; Mechanical properties; Microscopes; Microstructure; Particle distribution; Phase mapping; Quality control; Scanning; 12935. SP305-7.
- Television T/F dissemination; Thallium beam standards; Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; Time scales; "unified standard"; U.S. standard time zones; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Monogr. 140. SP305-6.
- Television time and frequency dissemination; Time-frequency time signal noise; System designs; Transfer standards; Automatic vehicle location; Dissemination of time and frequency; Portable clocks; Radio propagation; Satellite time dissemination; 13433. SP305-5.
- Television time and frequency dissemination; Time signal noise; Time-frequency system designs; Transfer standards; Dissemination of time and frequency; Portable clocks; Radio propagation; Satellite time dissemination; 13435. SP305-5.
- Tellurides; Transition-metal chalcogenides; Trigonal-prismatic coordination; Dichalcogenides; Intercalation compounds; Layer structures; Modulated structures; Occupation wave functions; Semiconductor-to-metal transitions; SP364, 625-635. SP305-4.
- Tellurites; Tellurium dioxide; Tellurium hypovanadate; Tellurium tellurite; Crystal structure; "lone pair" structures; SP364, pp. 29-39. SP305-4.
- Tellurium; Chemical separation; Distillation; Neutron activation; 9169. SP305.
- Tellurium; Ultrasonics; Bulk modulus; Equation of state; High pressure; Phase transitions; Potassium chloride; 11 SP305-2.
- Tellurium; Ultrasonics; Compressibility; Cylinder distortion; High pressure; Nickel; J71C1-439, 11-17 (1967). SP305.



urium; Uranium; Environmental samples; Neutron activation analysis; 15385. SP305-7.  
 urium dioxide; Tellurium hypovanadate; Titanium tellurite; crystal structure; "lone pair" structures; Tellurites; SP364, p. 29-39. SP305-4.  
 urium hexafluoride; Vibration-rotation; Band contours; free fields; Gas phase; Infrared; Sulphur hexafluoride; 9528. SP305-1.  
 urium hypovanadate; Titanium tellurite; Crystal structure; "lone pair" structures; Tellurites; Tellurium dioxide; SP364, p. 29-39. SP305-4.  
 umerization; Cyclic inter-intramolecular mechanism; Diene polymerization; Fluorodienes; Intermediates; Polymerization; urity; Synthesis; J75A No. 1, 41-56 (1971). SP305-3.  
 ak rate structure; Communications network; Computer program; Heuristic; Minimum cost; Network configuration; ptimization; TN787. SP305-5.  
 M cell; EMC measurements; Radiation resistance; Rectangular coax; Shielded strip line; NBSIR 75-829. SP305-8.  
 M cell; Shielded strip line; NBSIR 76-841. SP305-8.  
 M cells; Measurements; Radiated emission; Radiation resistance; 16469. SP305-8.  
 M transmission cells; Hazard level fields; Power density meter calibration; NBSIR 75-804. SP305-7.  
 nkin; Wax-bound electrode; Amperometry; Cyclic voltammetry; Electroosorption; Langmuir; Lead dioxide; yrophosphate; SP455, pp. 183-189 (Nov. 1976). SP305-8.  
 mper embrittlement; Austenitic steels; Carbide precipitation; atigue crack propagation; Plastic deformation; Plastic zone ze; 11183. SP305-2.  
 emperature; Accurate measurement; Equation-of-state; Fixed oints; High pressure; High-pressure equipment; Instrumentation; Pressure scale; Shock wave technique; SP326. SP305-5.  
 emperature; Acoustic calibrators; A-weighting; Barometric pressure; Crest factor; Ground cover; Humidity; Instrumentation; Microphones; Sound level meters; Statistical control rocesses; TN931. SP305-8.  
 emperature; Acoustical thermometry;  $\gamma$ -ray anisotropy thermometry; Noise thermometry; Nuclear magnetic resonance; Nuclear quadrupole resonance; Paramagnetism; Superconductivity; TN830. SP305-6.  
 emperature; Air flow rate; Electrical, mechanical and thermal hazards; Hair dryer/stylers; Heat flux; Safety; Technical analysis; NBSIR 76-1112. SP305-8.  
 emperature; Arc; Blackbody; Graphite; Spectral radiance; Spectroradiometer; 9326. SP305.  
 emperature; Blackbody; International Practical Temperature scale; Optical; Photoelectric pyrometer; Radiance sources; Standards; 9347. SP305.  
 emperature; Bone; Dispersion phenomena; Maxwell-Wagner polarization; Piezoelectric  $d$  constant; Piezoelectricity; Relative humidity; 16314. SP305-8.  
 emperature; Calibration; Ceramic; Condenser; Electret; Humidity; Microphones; Reciprocity; Sensitivity; NBSIR 76-1090. SP305-8.  
 emperature; Closure seal; Electrical feedthrough; High pressure; Hydrostatic; NMR; 14078. SP305-6.  
 emperature; Composite wall panel; Condensation; Humidity; Moisture; Pressure; 13610. SP305-5.  
 emperature; Compression; Foams; 13541. SP305-5.  
 emperature; Copper NMR thermometer;  $\gamma$ -ray thermometer; Noise thermometer; Superconductive transition temperatures; 15527. SP305-7.  
 emperature; Dilution refrigerators;  $\gamma$ -ray anisotropy thermometry; Josephson junctions; Noise thermometry; 15526. SP305-7.  
 emperature; Dislocations; Electron microscopy; Iron alloys; Stacking fault energy; 12105. SP305-3.  
 Temperature; Fixed points; Paramagnetism; Superconductivity; 14178. SP305-6.  
 Temperature; Graphite arc; Pyrometry; Standard; 9346. SP305.  
 Temperature; Infrared pyrometer; International Practical Temperature Scale; Optical pyrometer; Radiation thermometry; Standards; 9343. SP305.  
 Temperature; International temperature scale; Pyrometry; Standards; 13590. SP305-5.  
 Temperature; Josephson junction; Superconductivity; 14057. SP305-6.  
 Temperature; Josephson junctions; Noise thermometer; Nuclear orientation; Paramagnetism; Superconductivity; TN823. SP305-6.  
 Temperature; Niobium pentoxide; Phase relationships; Pressure; J77A No. 6, 705-711 (1973). SP305-5.  
 Temperature; Temperature compensator; Test; Vapor meter; Volume; Bell prover; Calibration; Inspection; Liquefied petroleum gas; Pressure; Report form; H117. SP305-7.  
 Temperature; Temperature gradient; Transducers; Flush diaphragm; Pressure gage; 9258. SP305.  
 Temperature; Temperature measurement; Thermometry; 10885. SP305-2.  
 Temperature; Temperature scales; Thermometry; 11503. SP305-2.  
 Temperature; Tension; Graduation; Length; Scale; Tape; NBSIR 74-451. SP305-6.  
 Temperature; Testing; Building composite; Building material; Conditioning; Equilibration; Gypsum wallboard; Methodology; Relative humidity; Structural sandwich panel; NBSIR 75-767. SP305-7.  
 Temperature; TGA; Thermal analysis; Accessibility; Arrhenius plots; Burned celluloses; Celluloses; Combustion; Crystallinity; Decomposition; DP; DTA; Flame-retardant; KHCO<sub>3</sub>; Kinetics; Moisture; Oxygen indexes; Pyrolysis; Reaction rates; 13129. SP305-5.  
 Temperature; Thermal; Ceramics; Chemical composition; Mechanical properties; Pressure; Properties; Standards; Standard Reference Materials; 12181. SP305-3.  
 Temperature; Thermal conductance; Thermal conductivity; Conductance; Conductivity; Heat transfer; Nuclear safety; Soils; 10944. SP305-2.  
 Temperature; Thermal conductance; Thermal conductivity; Conductance; Conductivity; Heat transfer; Nuclear safety; Soils; 11305. SP305-2.  
 Temperature; Thermal conductivity; Velocity of sound; Viscosity; Computer programs; Density; Enthalpy; Entropy; Heat capacity at constant pressure; Heat capacity at constant volume; Heat capacity ratio; Heat transfer coefficient; Hydrogen; Pressure; TN625. SP305-5.  
 Temperature; Thermal conductivity; Thermal diffusivity; Thermal resistivity; Thermophysical properties; Conductance; Conductivity; Contact conductance; Contact resistance; Electrical conductivity; Electrical resistivity; Heat transfer; Lorenz function; SP302. SP305-1.  
 Temperature; Thermal expansion; Compressibility; Density; Dilatometer; Pressure; Specific volume; 12977. SP305-4.  
 Temperature; Thermal gradients; Zero shift; Pressure measurement errors; Pressure transducers; Response; TN490. SP305-1.  
 Temperature; Thermocouple; Butane; Carbon monoxide; Catalysis; Combustion; Hydrogen; Optical pyrometer; Platinum; Platinum-13 percent rhodium; 14637. SP305-6.  
 Temperature; Thermodynamic temperature; Thermometer; Ammonia; Calorimetry; Flow calorimeter; Heat capacity; Ideal gas; 13639. SP305-5.  
 Temperature; Thermometer; Bearings; Bolometer; Electron microscope; Helium; Hydrogen; Level gauging; Liquid level; Magnet; Motor; Pump; Rectifier; Solenoid; Superconductivity; Switch; 9715. SP305-1.

Temperature; Thermometer; Time constant; Cryogenic; Instrumentation; Measurement; Metrology; Response time; Sensor; 9944. SP305-1.

Temperature; Thermometric fixed point; Ac susceptibility; Superconductivity; 13838. SP305-6.

Temperature; Thermometric fixed points; Superconductive transition temperatures; Superconductivity; 15052. SP305-7.

Temperature; Thermometry; Conference; 15179. SP305-7.

Temperature; Thermometry; Thermocouples; Thermistors; Resistance thermometer; Radiation pyrometry; *Mono. 27, Supplement 2*. SP305.

Temperature; Thickness; Cell; Kovar; Sapphire; 15618. SP305-7.

Temperature; Thin film; Carbon; Cryogenic; Fluid phase; Hydrogen; Low-gravity; Resistance thermometry; 11343. SP305-2.

Temperature; Time; Ampere; Candela; Current; Degree Kelvin; International System of Units; Kilogram; Length; Luminous intensity; Mass; Meter; Metric system; Second; Standards for physical measurement; 9796. SP305-1.

Temperature; Time; Unit cell; Annealing; Crystallization; Deformation; Density; Fold surface; Melt; Polyethylene; Solvent; 10897. SP305-2.

Temperature; Time; Units of measurement; Length; Mass; 10219. SP305-1.

Temperature; Torsion pendulum;  $a$ ,  $c$  face of cell; Compliance; Crystallization-oriented; Lamella thickness; Logarithmic decrement; Modulus; Polyethylene; Relaxations; Shear; 9689. SP305-1.

Temperature; Total energy; Bulk viscosity; Macroscopic equations of motion; Macroscopic variable; Non-equilibrium kinetic energy; 9313. SP305.

Temperature; Toxicity; Upholstery; Bedding; Beds; Carbon dioxide; Carbon monoxide; Combustion products; Fire gases; Fire hazards; Furniture; Life hazard; Oxygen; Smoke; *NBS-GCR-73-1*. SP305-8.

Temperature; Traceability; Calibration; 13813. SP305-6.

Temperature; Tungsten; Pyrometry; Source; 13576. SP305-5.

Temperature; Uncertainties; Volume; Argon; Density; Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; *TN361*. SP305-1.

Temperature; Uncertainties; Volume; Argon; Compressed liquid; Density; Density ratios; Liquid; Nitrogen, oxygen; Parahydrogen; Pressure; Saturated liquid; Tables; *TN361 (Revised)*. *Metric Supplement*. SP305-6.

Temperature; Uniformity; Effectiveness; Forced mixing; Mixing device; Pressure drop; *BSS27*. SP305-2.

Temperature; Vapor dimerization; Vapor pressure; Aluminum fluoride; Entrainment method; Heat of sublimation; 10382. SP305-1.

Temperature; Vapor pressure; Vapor pressure of water; Water; Manometer; Precision manometer; Pressure;  $p$ - $t$  relation;  $p$ - $t$  relation of water; Standard resistance thermometers; *J73A No. 5*, 493-496 (1969). SP305-1.

Temperature; Vent pipe; Waste pipe; ABS, building fires; Drain pipe; Fire spread; Pipe chase; Smoke; 14227. SP305-6.

Temperature; Water; Bath; Control; 10561. SP305-1.

Temperature; Wien; Boltzmann; Draper; Jeans; Kirchhoff; Optical; Planck; Pyrometry; Radiance; Rayleigh; Stefan; 9788. SP305-1.

Temperature; Wind direction; Wind speed; Air contamination; Design conditions; Earthquake risk; Evaluation; Ground temperature; Humidity; Noise level; Operation BREAKTHROUGH; Precipitation; Solar radiation; 13398. SP305-5.

Temperature; With and without forced air; Velocity; Carpets with and without underlayment; Corridor fires; Energy models; Finished interior; Full scale experiments; Interaction; Measurements; Smoke; Smoke and flame spread; 15230. SP305-7.

Temperature broadening; Ti-Al system; TiNi; Absorption reaction; Density of states; Lifetime broadening; Nickel; Overlapping spectra; Soft x-ray spectra of alloys; 10533. SP305-1.

Temperature calibration; Thermal analysis; Cooling curve; Temperature calibration; Differential scanning calorimetry; Evaluation of thermal apparatus; 13704. SP305-5.

Temperature, central body; Thermocouple disconnect; Thermoelectric thermometry; Thermometer; Vasodilation; W sensitive neurons; Anesthesiology; Brain temperature; Carotid artery; Clinical medicine; Cold stress (diver); Disposition; 13631. SP305-5.

Temperature changes in tensile specimens; 4340 standard; Capacitance gages; Invar; Loading rate; Microplasticity; Strain measurement; 11738. SP305-2.

Temperature classification, Dy I and Dy II; Spectra, Dy I and Dy II; Intensity estimates, Dy spectra; Dysprosium spectrum; temperature classification; *J74A No. 3*, 355-394 (1970). SP305-2.

Temperature coefficient; Alloy; Bronze; Magnetoresistance; Resistance; 12561. SP305-4.

Temperature coefficient; Aluminum conductor; Aluminum cables; Conversion factors; Electrical conductivity; Electrical conductor; Electrical resistivity; Standard values; *HL117*. SP305-4.

Temperature coefficient; Auto headlamp glass; Population; Refractive index; RI variance; Statistics; 15086. SP305-7.

Temperature coefficient; Bismuth transition; Calibration; High pressure; Pressure measurement; *J74A No. 1*, 51 (1970). SP305-2.

Temperature coefficient; Collagen; End-to-end bonding; Hydrophobic bonding; Lateral aggregation; Native aggregation; 9436. SP305.

Temperature coefficient of index; Thermal expansion; Zinc; Chemical vapor deposited ZnSe; Elastic compliance; Elastic constants; Polycrystalline ZnSe; Refractive index; Stress-optic constants; 15938. SP305-8.

Temperature coefficient of refractive index; Thermal expansion; Interferometry; Light scattering; Oxide glasses; Polarizability; Pressure; Refractive index; *J77A No. 6*, 755-760 (1973). SP305-5.

Temperature coefficient of refractive index; Alkali halides; Optical constants; Refractive index; *JPCRD 5, No. 2*, 329-336 (1976). SP305-8.

Temperature coefficient of refractive index; Zinc selenide; Refractive index; *SP435*, pp. 170-174 (Apr. 1976). SP305-8.

Temperature coefficient of refractive index; Calcium fluoride; Refractive index; *SP462*, pp. 64-68 (Dec. 1976). SP305-8.

Temperature coefficient of standard cells; Early types of standard cells; Life of standard cells; Standard cells; 10533. SP305-1.

Temperature coefficients; Extrinsic exhaustion region; Germanium; N-type; P-type; Resistivity; Silicon; 10736. SP305-1.

Temperature coefficients of e.m.f.; Silver-silver chloride electrode; Glass electrode; Inner solutions; pH measurement; calomel electrode; Reference electrodes; 11247. SP305-2.

Temperature compensation; Thermoelement; Transfer voltage; Voltage converter; Emf comparator; Frequency compensation; 11200. SP305-2.

Temperature compensation; Ultrasonics; Velocity of sound; Delay line; Frequency stability; Gage; High pressure; Standard pulse repetition; 9331. SP305.

Temperature compensation; Uniformity; Weights and measurements; Digital indicators; Drained weight; Laws and regulations; Metrication; Metric conversion; Net weight; Package content; Petroleum products; Scales; Survey; *SP407*. SP305-7.

Temperature compensator; Test; Vapor meter; Volume; Temperature; Calibration; Inspection; Liquefied petroleum gas; Pressure; Report form; Temperature; *HL117*. SP305-7.

temperature consistency; Thermodynamic parameters (estimated); Beryllia hydrates (gases); Contaminants; Gold; Thermometry; Beryllia vaporization; *J76A No. 5, 511-515 (1972)*. SP305-4.

Temperature control; Controller; *10574*. SP305-1.

Temperature controller; Mercury-toluene thermometer; *9934*. SP305-1.

Temperature cycling; Temperature storage; Zero shift; Life testing; Pressure transducer; Sensitivity shift; Strain gage; *497*. SP305-1.

Temperature dependence; Annealed specimens; Cold-worked specimens; Elastic moduli; Internal friction; Nickel-titanium alloy; *9511*. SP305.

Temperature dependence; Antiferromagnetism; Magnon-Raman process; Nuclear magnetic resonance; Relaxation time; Spin echo technique; *9918*. SP305-1.

Temperature dependence; Band tailing; Gallium arsenide; Infrared valleys; *n*-type gallium arsenide; Photoluminescence; *943*. SP305-3.

Temperature dependence; Band-to-band recombination; Conduction dependence; Excitation dependence; Gallium arsenide; Impurity effects; Photoluminescence; *12216*. SP305-3.

Temperature dependence; Cadmium fluoride; Dielectric constant; Pressure dependence; *11608*. SP305-2.

Temperature dependence; Chloroform; Deuterium; NMR; Pressure dependence; Relaxation; Reorientation; *15324*. SP305-7.

Temperature dependence; Density dependence; Molecular dynamics; Simple fluids; Specific heats; *12525*. SP305-4.

Temperature dependence; Diffusion; Doping; Fe-57; Iron-poled; Lattice distortion; Mössbauer spectroscopy; Quadrupole splitting; *15332*. SP305-7.

Temperature dependence; Elastic barrier; Lattice; Molecular relaxation; *13756*. SP305-5.

Temperature dependence; Elastic constants; Oxide; Rutile; Single crystal; *11512*. SP305-5.

Temperature dependence; Fatigue; Light memory; Photocells; Photodiodes; Photometry; Radiometry; Selenium; Silicon; Stability; *TN594-5*. SP305-5.

Temperature dependence; GaAs; Quantum efficiency; Radiative recombination; Ruby laser; *10244*. SP305-1.

Temperature dependence; Thermal conductivity; Transport properties; Viscosity; Density dependence; Liquid state; Simple fluids; *11879*. SP305-3.

Temperature dependence; TiO<sub>2</sub>; Mo<sup>4+</sup>; Paramagnetic relaxation; *10628*. SP305-1.

Temperature dependence; Valence band; Band filling; Band tailing; GaAs; Gallium arsenide; Internal quantum efficiency; *9943*. SP305-1.

Temperature dependence; Valence band; Band tailing; GaAs; Non-radiative recombination centers; Radiative recombination; *11791*. SP305-2.

Temperature dependence; Viscosity of parahydrogen; Liquid parahydrogen; Parahydrogen; Shear viscosity; *9201*. SP305.

Temperature dependence; Wavelength dependence; Multilayer dielectric mirror; Optical absorbance; Reflectance; Scattering; *SP435*, pp. 230-235 (Apr. 1976). SP305-8.

Temperature dependence; X rays; Gamma rays; Photocurrents; Radiation; Radiation detector; Radiation dosimetry; Silicon radiation detector; *J75A No. 6, 579-589 (1971)*. SP305-3.

Temperature dependence; X-ray diffraction; Defects; *n*-paraffins; Phase transition; *J74A No. 2, 203-214 (1970)*. SP305-1.

Temperature dependence of mobility; Electron mobility; Ionized impurity scattering; Optical mode scattering; Strontium titanate; *10210*. SP305-1.

Temperature dependence 14-90 K; <sup>35</sup>chlorine; Nuclear quadrupole resonance; Sodium chlorate; *12258*. SP305-3.

Temperature dependent; Diffusion constant; Dipole relaxation; Molecular; Spin lattice; *13167*. SP305-5.

Temperature dependent absorption coefficient; Transition moment; Ultraviolet; *Ab initio* potential curve; Carbon dioxide; Quasi-linear molecule; Renner splitting; *12458*. SP305-4.

Temperature distribution, steady-state; Temperature gradients; Temperature irregularities; Temperature variation; Thermal conductivity; Analytic solutions; Boundary conditions; Computation, temperature distribution; *J75C No. 2, 79-83 (1971)*. SP305-3.

Temperature drift; Thermodynamic properties; Glass transition; Heat capacity; High molecular weight linear polyethylene; Polyethylene; *J. Res. 80A No. 1, 51-57 (1976)*. SP305-8.

Temperature drift method; Calorimetry; Glass transition temperature; Partially crystalline polymer; Polyethylene; Linear and branched; *13253*. SP305-5.

Temperature drifts; Annealed; Crystallinity; Glass transition; Polyethylene; Relaxation; *13945*. SP305-6.

Temperature effect; Tests; Viscosity; Electron damage; Electron energy; Electron spin resonance; Evaluation; Gel; Mechanical properties; Optical properties; Plastic films; Poly(ethylene terephthalate); Proton damage; Proton energy; *SP336*, pp. 323-344. SP305-3.

Temperature effects; Absorption; Extinction coefficients; N<sub>2</sub>O; NO<sub>2</sub>; Spectra; *J. Res. 80A No. 2, 143-166 (1976)*. SP305-8.

Temperature effects; Cryogenic; Flame; Nuclear radiation; Pressure transducers; *9662*. SP305-1.

Temperature effects; Glass electrodes; Industrial analysis; pH determination; pH instrumentation; Reference electrodes; *9560*. SP305-1.

Temperature effects; Tensile fatigue; Test methods; Bituminous roof membranes; Fatigue testing; Flexural fatigue; Performance criteria; Roofing; *TN863*. SP305-7.

Temperature effects; Test method; Thermal transient; Laser; Performance characteristic; Pressure transducer; *TN723*. SP305-4.

Temperature effects; Trace elements; Zinc; Atomic absorption spectrophotometry; Calcium; Container effects; Copper; Magnesium; Potassium; Serum minerals; Serum storage effects; Sodium; *SP422*, pp. 575-591 (Aug. 1976). SP305-8.

Temperature equilibrium; Weights; Cleaning; Standards; Steam generator; Storage; *NBSIR 74-443*. SP305-6.

Temperature fluctuation; Closed water system; Magnetic field stability; NMR; *9718*. SP305-1.

Temperature for moist air and enthalpy; Thermodynamic watt bulb temperature; Instrumentation-measurement; Metric psychrometric charts; Psychrometric charts; Psychrometric formula; *9659*. SP305-1.

Temperature gradient; Thermal gradient; Thermocouple; Thermoelectric stability; Aging; Calibration change; Gradient; High temperature (700 to 2000 °C); Iridium; Iridium-rhodium alloy; Noble-metal thermocouple; Oxidation; Platinum; Platinum-rhodium alloy; *16158*. SP305-8.

Temperature gradient; Transducers; Flush diaphragm; Pressure gage; Temperature; *9258*. SP305.

Temperature gradient; X-ray; Attachment, low-temperature; Radiation shield; *15242*. SP305-7.

Temperature gradient zone melting; Traveling solvent; Calcium molybdate; Crystal growth; Lithium sulfate; Single crystals; *9496*. SP305.

Temperature gradients; Temperature irregularities; Temperature variation; Thermal conductivity; Analytic solutions; Boundary conditions; Computation, temperature distribution; Furnaces, high-pressure; High-pressure furnaces; *J75C No. 2, 79-83 (1971)*. SP305-3.

Temperature gradients in calorimeters; Tempering of leads; Design principles; Heat leak errors; Heat transfer; *10961*. SP305-2.

Temperature in stars; Turbulence in stars; Abundances of elements in stars; Ba II stars (ζ Capricorni); Curve of growth; Equivalent widths; Identification of spectral lines; Ionization in stars; Oscillator strengths; *Monogr. 119*. SP305-3.

Temperature intervals; Temperature scale; Heat capacity; Specific heat; 13626. SP305-5.

Temperature irregularities; Temperature variation; Thermal conductivity; Analytic solutions; Boundary conditions; Computation, temperature distribution; Furnaces, high-pressure; High-pressure furnaces; *J.75C No. 2, 79-83 (1971). SP305-3.*

Temperature mapping; Active devices; Hot-spot behavior; Laser scanning; Nondestructive testing; Silicon optical absorption coefficient; 16577. SP305-8.

Temperature measurement; Automatic phase balance; Bridge; Multistage transformers; Operational amplifiers; Resistance bridge; Resistance thermometry; *J.74C Nos. 1 and 2, 14-17 (1970). SP305-2.*

Temperature measurement; Calorimeter; Dosimetry; Electron beam; Interferometer; Radiation chemical kinetics; Radiation measurement; Refractive index; 15619. SP305-7.

Temperature measurement;  $H\beta$  profiles; Plasma arcs; Stark broadening; 11126. SP305-2.

Temperature measurement; Heat capacity; Magnetic entropy; Magnetic susceptibility;  $NdCl_3$  (neodymium trichloride);  $PrCl_3$  (praseodymium trichloride); 9923. SP305-1.

Temperature measurement; High temperature chemistry; International temperature scale; Melting points; Pyrometry; Secondary reference points; 10116. SP305-1.

Temperature measurement; High-speed measurements; High temperature; Pyrometry; Radiation; 13573. SP305-5.

Temperature measurement; Measurement temperature; Medicine temperature; Microwave diathermy fields; 16441. SP305-8.

Temperature measurement; Optical pyrometry; Pyrometry; Radiation thermometry; 9857. SP305-1.

Temperature measurement; Temperature-sensitive phosphor; Thermographic phosphor; Transistor-chip temperature; Surface temperature; *TN591. SP305-3.*

Temperature measurement; Temperature pattern; Diameter ratio; Mixing effectiveness; Square-edged orifice; *BSS12. SP305.*

Temperature measurement; Temperature scales; Temperature uncertainties; Thermodynamic temperature scales; Acoustical thermometry; Black-body radiation; Gas thermometry; Kirchhoff's law; Magnetic thermometry; "noise" thermometry; Nuclear resonance thermometry; 10613. SP305-1.

Temperature measurement; Temperature sensors; Thermometry; Time constant; Time response; Oceanographic temperature measurements; 15074. SP305-7.

Temperature measurement; Thermistors; Thermocouple; Thermometry; Fluidic thermometers; Pyrometry; Radiation pyrometry; *SP373. SP305-4.*

Temperature measurement; Thermistors; Thermocouples; Thermometers; Air in ducts; Measurement errors; 10632. SP305-1.

Temperature measurement; Thermistor; Thermocouple; Conduction error; Radiation error; Resistance thermometer; *BSS26. SP305-2.*

Temperature measurement; Thermocouples; Thermoelectric properties; Cryogenics; Dipping; Evaluation; Heterogeneity; Liquid helium; Liquid nitrogen; Low temperature tests; Seebeck effect; 12623. SP305-4.

Temperature measurement; Thermocouples; Thermometry; Base-metal thermocouples; Cryogenic thermocouples; Noble-metal thermocouples; Nonstandardized thermocouples; Refractory metal thermocouples; Standardization; 15517. SP305-7.

Temperature measurement; Thermoelectric properties; Cryogenics; Dipping; Evaluation; Heterogeneity; Liquid helium; Liquid nitrogen; Low temperature; Seebeck effect; 12975. SP305-4.

Temperature measurement; Thermometry; Temperature; 10885. SP305-2.

Temperature measurement; Vaporization; Vapor pressure; Water in alumina; Water vapor; Alumina; Arc-image furnace; Heat of vaporization; Molten alumina; 9675. SP305-1.

Temperature measurement; Wavelength measurement; Do stars, measurement; Expansion measurements; Lens and rotor testing; Optical engineering; Optical surfaces; Precision measurements; Refractive indices; Surface plate test; 10599. SP305-1.

Temperature, measurement at high pressure; Thermocouple effect of pressure on emf of; Emf, thermocouple, effect pressure on; Hot-junction temperature, nonlinear evaluation of; Hot-junction temperature, pressurized furnace; Indirect temperature measurements; 12979. SP305-4.

Temperature measurements; Clinical instruments; Instrumentation; 16021. SP305-8.

Temperature measurements; Thermal emf; Thermocouple; Thermoelectric reference data; Thermometry; Calibrated Nickel-base alloys; Nickel-chromium alloys; Nickel-silicon alloys; Reference tables; 15518. SP305-7.

Temperature measurements; Thermal emf drift; Tungsten-rhenium alloys; Beryllium oxide; Refractory metals; Sheathed thermocouples; Tantalum; 15797. SP305-8.

Temperature measurements; Thermistor probe; High-resistance leads; Radio frequency heating; 15803. SP305-8.

Temperature measurements; Tungsten-rhenium alloys; Beryllium oxide; Emf drift; Sheathed thermocouples; Tantalum; 14377. SP305-6.

Temperature measuring instruments; Triple point; Water; Resistance thermometers; 13624. SP305-5.

Temperature pattern; Diameter ratio; Mixing effectiveness; Square-edged orifice; Temperature measurement; *BSS1. SP305.*

Temperature, peak; Thermal properties; Transistors, power safe-operating area; Method of measurement, electronic semiconductor devices; 15493. SP305-7.

Temperature perturbation theory; Argon; Compressibility; Dense fluids; Equation of state; Molecular dynamics; Molecular interactions; Nitrogen; Pair potentials; 12454. SP305-4.

Temperature predictions; Thermal analysis; Thermal behavior; Transient heat flows; Building heat transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; *BSS45. SP305-5.*

Temperature predictions; Thermal analysis; Thermostat; Transient heat flows; Air leakage measurement; Building heat transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; *BSS57. SP305-7.*

Temperature profile; Absorbed dose; Calorimetry; Electron beams; Interference fringes; Interferometry; Pulsed beam; Refractive-index holography; 12324. SP305-3.

Temperature reference point;  $C_2H_4$ ; Carbon dioxide;  $CO_2$ ; Critical density; Critical point; Critical temperature; Ethylene; 14527. SP305-6.

Temperature scale; Argon; Fixed point; Triple point; *BSS1. SP305-5.*

Temperature scale; Calibration; Emergent stem; Liquid-in-glass thermometer; Reference point; Stirred liquid comparison bath; *Monogr. 150. SP305-8.*

Temperature scale; Cerous magnesium nitrate; Low temperature; Magnetic cooling; Magnetic thermometer; Paramagnetic salt; 10991. SP305-2.

Temperature scale; Fixed points; OSRM; Superconducting devices; Superconductive transition temperature; Superconductivity; 13591. SP305-5.

Temperature scale; Freezing point; Gold point; High temperature; Platinum resistance thermometer; Standard thermocouple; 13571. SP305-5.

Temperature scale; Heat capacity; Specific heat; Temperature intervals; 13626. SP305-5.



rature scale; Temperature standards; Thermocouples; thermometry; Base metal alloys; Noble metal alloys; *Monogr. SP305-6*.  
 rature scale; Temperature standards; Thermoelements; thermometry; Base metals alloys; Noble metal alloys; *ogr. 125, Suppl. 1. SP305-7*.  
 rature scale; Thermal analysis; DTA; International Convention on Thermal Analysis; International cooperative ing; Standard Reference Materials NBS 758, 759, 760; 30-40. **SP305-4**.  
 rature scale; Thermal emf of elements; Thermocouple s; Thermometry; Thermometry fixed points; Electrical tivity; IPTS-68; 13110. **SP305-5**.  
 rature scale; Thermocouple; Triple point; Calibration; d point; Freezing point; Furnaces; High temperature; 6-68; Platinum resistance thermometer; 12354. **SP305-3**.  
 rature scale; Thermodynamic consistency; Ammonia; capacity; Ideal gas; PVT data; PVT surface; 14678. 35-6.  
 rature scale; Thermometer calibration; Thermometer uction; Thermometry; Measurement accuracy; National erature measurement system; 15060. **SP305-7**.  
 rature scale; Thermometry; Annual report; Calibrations; gress report; Standards; *TN869. SP305-7*.  
 rature scale; Thermometry; Cerous magnesium nitrate; temperature; Magnetic temperature; 13578. **SP305-5**.  
 rature scale; Truck noise; Waste incineration; Cancer oncity; City games; *TNB 57, No. 2, 25-52 (Feb. 1973).* 05-5.  
 rature scale; Vapor pressure; Helium; Pressure measure- t; 13589. **SP305-5**.  
 rature scale differences; Thermodynamic temperatures; thermometry; International Practical Temperature Scale 968; *J. Res. 80A Nos. 5 and 6, 703-738 (1976).* **SP305-**  
 rature scale region of 40 to 900 °C; Temperature scale dards; ASTM Committee; Differential thermal analysis; rnational Committee on Thermal Analysis; *SP338, pp. 36. SP305-2*.  
 rature scale standards; ASTM Committee; Differential mal analysis; International Committee on Thermal Analy- Temperature scale region of 40 to 900 °C; *SP338, pp. 36. SP305-2*.  
 rature scales; Temperature uncertainties; Thermodynam- emperature scales; Acoustical thermometry; Black-body ation; Gas thermometry; Kirchhoff's law; Magnetic ther- metry; "noise" thermometry; Nuclear resonance ther- metry; Radiation thermometry; 10613. **SP305-1**.  
 rature scales; Thermocouples; Thermometry; 12984. 405-4.  
 rature scales; Thermodynamic properties; Calorimetry; pper; Debye theta ( $\theta$ ); Electronic coefficient of heat acity; Enthalpy; Entropy; Gibbs energy; Gold; Heat acity; Silver; *NSRDS-NBS18. SP305-1*.  
 rature scales; Thermoelectric thermometry; Acoustical mometry; Cerous magnesium nitrate thermometer; Error ysis; Liquid-in-glass thermometry; Reprints; Resistance mometry; Spectroscopic thermometry; Standards; *SP300, June 2. SP305-1*.  
 rature scales; Thermometry; Temperature; 11503. 305-2.  
 rature scales; Triple point; Vapor pressure equation; tical point; Oxygen; 12672. **SP305-4**.  
 rature scales;  $Y_2O_3$ ; IPTS-68; Melting point; Secondary perature standards; 14735. **SP305-7**.  
 rature sensitive phosphors; Transistors; Diodes; Failure hanisms; Internal current distributions; Second break- wn; Semiconductors; 10050. **SP305-1**.  
 rature sensitivity; Tires; *J73C Nos. 1 and 2, 21-24 969).* **SP305-1**.  
 Temperature sensors; Thermometry; Time constant; Time response; Oceanographic temperature measurements; Tem- perature measurement; 15074. **SP305-7**.  
 Temperature standard; Tin point; Triple point of water; Zinc point; Comparator; International Practical Temperature Scale of 1968; IPTS-68; Oxygen point; Platinum resistance ther- mometer; *J. Res. 80A No. 3, 477-504 (1976).* **SP305-8**.  
 Temperature standards; TGA; Theory of isoperibol and adiabatic shield calorimeters; Atherosclerotic plaque; DSC; Elastomers and vulcanizates; Explosives; High temperature DTA; Kinetics by TGA; Selection of DTA parameters; *SP338. SP305-2*.  
 Temperature standards; Thermocouples; Thermometry; Base metal alloys; Noble metal alloys; Temperature scale; *Monogr. 125. SP305-6*.  
 Temperature standards; Thermodynamic Kelvin Temperature Scale; Gas thermometry; International Practical Temperature Scale of 1968; Sorption; Steam point; *J77A No. 4, 383-389 (1973).* **SP305-5**.  
 Temperature standards; Thermoelements; Thermometry; Base metals alloys; Noble metal alloys; Temperature scale; *Monogr. 125, Suppl. 1. SP305-7*.  
 Temperature storage; Zero shift; Life testing; Pressure trans- ducer; Sensitivity shift; Strain gage; Temperature cycling; *TN497. SP305-1*.  
 Temperature uncertainties; Thermodynamic temperature scales; Acoustical thermometry; Black-body radiation; Gas ther- mometry; Kirchhoff's law; Magnetic thermometry; "noise" thermometry; Nuclear resonance thermometry; Radiation thermometry; 10613. **SP305-1**.  
 Temperature variation; Thermal conductivity; Analytic solu- tions; Boundary conditions; Computation, temperature dis- tribution; Furnaces, high-pressure; High-pressure furnaces; High-temperature, high-pressure research; *J75C No. 2, 79-83 (1971).* **SP305-3**.  
 Temperature variation; 12 °K–90 °K; Bayer-Kushida theory; Chlorine; Nuclear quadrupole resonance; Potassium chlorate; 10238. **SP305-1**.  
 Temperature variation of capacitance; Capacitance; Dielectric constant; Stable capacitance; 11935. **SP305-3**.  
 Temperature wave; Thermal diffusivity; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Interatomic potential; Molecular dynamics; Second sound; Shock wave; Stress wave; 16138. **SP305-8**.  
 Temperature wave; Thermal diffusivity; Thermal equilibrium; Thermal relaxation; Anharmonic crystal; Computer simula- tion; Energy transport; Heat pulse; Molecular dynamics; Second sound; Stress pulse; 16589. **SP305-8**.  
 Temperature wave; Thermal relaxation; Anharmonicity; Crystal; Heat pulse; Lattice; Molecular dynamics; Second sound; Stress wave; 14253. **SP305-6**.  
 Temperature-control-bracket; Boundary temperature; Colli- sional-control; Non-LTE; Radiative-control; 12360. **SP305-3**.  
 Temperature-resistant alloys; Thermal conductivity; Conductiv- ity; Heat conductivity; Heat-resistant alloys; Heat transfer; Stainless steel; 10721. **SP305-1**.  
 Temperatures; Triple-point region; T-S diagram; Enthalpy; En- tropy; Parahydrogen; Pressure-volume; Properties; *TN343. SP305*.  
 Temperatures; Uncertainties; Volume; Volume correction fac- tor; Argon; Compressed liquid; Density; Graphs; Liquid; Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; Tables; *TN361, Revised October 1972. SP305-5*.  
 Temperature-scale conversion; Thermodynamic properties; Ex- isting property tables; IPTS-48; IPTS-68; Practical-scale dif- ferences; *J73A No. 5, 451-470 (1969).* **SP305-1**.  
 Temperature-sensitive phosphor; Thermographic phosphor; Transistor-chip temperature; Surface temperature; Tempera- ture measurement; *TN591. SP305-3*.

- Temperature-time curve; Fire resistance ratings; Fire test furnace; Heat balance; Heat transfer; *NBSIR 75-794. SP305-7.*
- Tempering; Carbon steels; Fe<sup>27</sup> iron; Retained austenite hyperfine interactions; *10326. SP305-1.*
- Tempering; Through hardening steel; Ceramic; Cermets; Dimensional stability; Gage blocks; Length standards; Precipitation hardening steel; Secondary hardening steel; *11223. SP305-2.*
- Tempering; Tool steels; Annealing; Case hardening; Chemical composition; Hardening; Heat treatment; Ni-maraging steels; Normalizing; Stainless steels; Structural steels; Surface hardening; *Mono. 88. SP305.*
- Tempering of leads; Design principles; Heat leak errors; Heat transfer; Temperature gradients in calorimeters; *10961. SP305-2.*
- Tempering temperature; Tensile strength; Yield strength; AISI 5140 steel; Hardness; Heat treatment; Reduction of area; Slack-quenched structures; *10984. SP305-2.*
- Temporal development; Laser power and energy measurements; Spatial response; *16561. SP305-8.*
- Temporal dimensional stability; Ultrastability; Gage blocks; Maraging steel; Nitriding; Precision equipment; Surface hardened; *11596. SP305-2.*
- Temporal pulse monitoring; Transmission; 0.694  $\mu\text{m}$ ; Backscattering; Precatastrophic damage; Pulse dynamics; Reflection; Ruby laser; Surface damage; *SP414, pp. 179-189. SP305-6.*
- Temporal response; Transfer standard detector; XUV photodiode; Radiometry; Rise time; *15226. SP305-7.*
- Temporary cementation; Cementation; Intermediary base; Pulp protection; Retention; *13611. SP305-5.*
- Temporary dental cements; Dental restorative materials; EBA cements; Plastic reinforced restoratives; Restorative materials; *11996. SP305-3.*
- Temporary expedients; Tissue bearing; Denture base; Protective; Resilient liners; *12250. SP305-3.*
- Temporary negative ions; Atoms; Compound states; Cross-sections; Diatomic molecules; Electron impact; Energy levels; Resonances; *NSRDS-NBS 50. SP305-5.*
- Ten picofarad capacitor; Transportable ten picofarad capacitor; Unit of capacitance; Volume dependence; Capacitance standards; Fused silica dielectric; Picofarad capacitor; Shock sensitivity; Stability of value; *9653. SP305-1.*
- Tenability levels; Detector sensitivity; Detector siting; Heat detectors; Ionization smoke detectors; Photoelectric smoke detectors; Residential fires; Smoke detectors; *NBS-GCR-75-51. SP305-8.*
- Tendon; Bone; Collagen; Hydroxyapatite; Piezoelectricity; Pyroelectricity; *9470. SP305.*
- Tensile; Adhesion; Bonding; Dental; Filling materials; Hardening; Shrinkage; Strain; Stress; *9433. SP305.*
- Tensile; Ti-6Al-4V; Uniaxial loading; 4340 steel; Bending; Capacitance strain gage; *13648. SP305-5.*
- Tensile; Welded; Brazed; Copper; Low temperature; Notch-tensile; *11432. SP305-2.*
- Tensile adhesion; Adhesion to bovine enamel; Bonding enamel to restorative resins; Effect of enamel surface treatment; Enamel etch; Restorative resins; *12638. SP305-4.*
- Tensile deformation; Workhardening; Fracture; Initial cracking; Multiaxial stresses; Notch geometry; 310 stainless steel; Stress concentrations; *9735. SP305-1.*
- Tensile fatigue; Test methods; Bituminous roof membranes; Fatigue testing; Flexural fatigue; Performance criteria; Roofing; Temperature effects; *TN 863. SP305-7.*
- Tensile moduli; Tensile strength; Thermal conductivity; Thermal contraction; Boron; Cryogenics; Glass; Graphite; Literature review; PRD-49; Reinforced aluminum; Reinforced plastics; Structural composites; *15745. SP305-8.*
- Tensile properties; Aluminum alloy; Boron/epoxy; Composite materials; Fabrication process; Load-deform characteristics; Residual stress; Rule of mixtures; Sand specimen; Stress-strain curves; *TN812. SP305-6.*
- Tensile properties; Capacitance extensometer; Cryostat; S measurement instruments; *11771. SP305-2.*
- Tensile properties; Evaluation; High temperature tests; Modulus; Plastic flow; Poisson ratio; Refractory metals; Surface hardening; Strain rate; Stress strain diagrams; Tensile; *13819. SP305-6.*
- Tensile properties; Foams; Low temperature; *15337. SP305-1.*
- Tensile properties; Tensile strength; Ultimate elongation; Creep; Modulus; Rubber, natural; *12944. SP305-4.*
- Tensile properties; Tungsten; Vapor-deposition; Wires; Composites; Copper; Electrical conductivity; Fracture; Lamixtures; Metallic bonding; *J74C Nos. 3 and 4, 97 (1970). SP305-2.*
- Tensile properties; Ultimate tensile stress; Yield strength; Hydrogen-purified iron; Luder's strain; Polycrystalline; *10328. SP305-1.*
- Tensile shear; Adhesive bond; Aging; Composites; Compression; Flexure; Glass fiber; Housing system; Innovation; Laminate; Operation BREAKTHROUGH; Racking; Reinforced plastics; Reinforced polyester; Sustained load; *13473. SP305-5.*
- Tensile strength; Acrylic teeth; Adhesion; Autoadhesion; Binding; Cold-curing methyl methacrylate; Dentures; *1212. SP305-3.*
- Tensile strength; Adhesive bonding; Aging tests (materials); Composite materials; Glass fibers; Housing systems; Laminates; Reinforced plastics; Shear strength; Sustained load; *15624. SP305-7.*
- Tensile strength; Alumina; Diamond grinding; Surface finish; *SP348, pp. 391-397. SP305-4.*
- Tensile strength; Thermal conductivity; Thermal contraction; Boron; Cryogenics; Glass; Graphite; Literature review; *149; Reinforced aluminum; Reinforced plastics; Structural composites; Tensile moduli; 15745. SP305-8.*
- Tensile strength; Time of setting; Vicat; Autoclave sound; Hydraulic cement; Normal consistency; *10907. SP305-2.*
- Tensile strength; Transversely isotropic materials; Axisymmetric analysis; Cables (ropes); Composite materials; Corrosion; End fittings for FRP rod and rope; Finite element analysis; FRP rod; FRP rope; Materials testing; Nonlinear analysis (shear); *15399. SP305-7.*
- Tensile strength; Ultimate elongation; Creep; Modulus; Rubber; Natural; Tensile properties; *12944. SP305-4.*
- Tensile strength; Ultimate strength; Glassy state; Low temperature; Mechanical property; Modulus; Neoprene; Rubber; *10777. SP305-1.*
- Tensile strength; Wear; Corrosion; Crack-free chromium; Electroplating; Fast plating; Fatigue strength; Grinding; Hardness; *SP452, pp. 56-63 (Sept. 1976). SP305-8.*
- Tensile strength; Yield strength; AISI 5140 steel; Hardness; Heat treatment; Reduction of area; Slack-quenched structures; Tempering temperature; *10984. SP305-2.*
- Tensile strength, brass; Wear rate, brass; Density, brass; Ductility, brass; Electrical resistivity, brass; Electrodeposited brass; Electroplated brass; Internal stress, brass; Mechanical properties, electrodeposited brass; Properties, electrodeposited brass; *15559. SP305-7.*
- Tensile stress; Cadmium telluride; Elastic compliance; Tensile; Elastic moduli; Extrinsic damage thresholds; High-power lasers; Infrared materials; *SP462, pp. 119-125 (Dec. 1976). SP305-8.*
- Tensile test; Compliance; Luder's strain; Recrystallization; Serrated yielding; *14207. SP305-6.*
- Tensile testing; X-ray microdiffraction; Instrument design; X-ray method; Metallography; Strain measurement; *1112. SP305-2.*

ile tests; Carbide strengthening; Hydrogen-purified iron; tride strengthening; Nitrogen ferrite; Polycrystalline; Solid ion strengthening; 10327. SP305-1.

ion; Graduation; Length; Scale; Tape; Temperature; *ISIR 74-451*. SP305-6.

ion; Vibrating membranes; Air impedance; Compliant sur-; Drag reduction; Membranes; 16625. SP305-8.

ion tests; Alignment; Stresses; 16324. SP305-8.

ion-bending; Test methods; Airframe fastener; Double ear; Fatigue; Single shear; *NBSIR 74-465*. SP305-6.

ion/compression; Time to failure; Ceramics; Cyclic failure; lation to static failure; Slow crack growth; 13920. SP305-

or; Algebra; Alternating tensor; Capelli's identity; Carten- tensor; Group representation; Invariant; Isotropic tensor; onecker delta; Orthogonal group; *J.79B Nos. 1 and 2*, 49- (1975). SP305-7.

or; Trees; Digraphs; Graphs; Products; *J.74B No. 4*, 235- (1970). SP305-2.

or function; Trace; Chain rule; Continuum mechanics; adient; Matrices; Matrix calculus; Partial differentiation; oduct rule; *J.75B, Nos. 3 and 4*, 97-107 (1971). SP305-3.

or permeability; Degenerate mode cavity; L-band cavity; lycrystalline garnets; *J.71CI-445*, 69-75 (1967). SP305.

or permeability; YIG; External tensor permeability; Fer- magnetic resonance; Ferrites; Garnet; Low magnetic field ects; Permeability; Spin waves; 9395. SP305.

or polarizability; Dynamic collective model; Giant onance; Nuclear surface oscillations; Photon scattering; larized photons; 13820. SP305-6.

or power; Character; Kronecker power; Symmetric group; 542. SP305-6.

or product; Character of central type; Central idempotent; obenius Reciprocity; Group algebra; Orthogonality rela-; *J.77B Nos. 3 and 4*, 93-99 (1973). SP305-5.

or product; Irreducible character; Symmetry class of ten-; Symmetry operator; *J.74B No. 1*, 41-44 (1970). SP305-

or products; Associated matrices; Compounds; Doubly chastic matrices; Induced powers; 11383. SP305-2.

or products; Convolution; Hilbert space; Separation of riabiles; Spectral measure; *J. Res. 80B No. 3*, 347-351 (1976). SP305-8.

ative assignment based on selection rules; Bi-nuclear com-; Copper (II) acetate monohydrate; Polarized electronic sorption spectrum; 9155. SP305.

ative standards; Building codes; Industrialization; Less- developed country; SASO; Saudi Arabia; Standardization; *ISIR 75-976*. SP305-8.

s; Tests; Uniforms; Upholstered furniture; Apparel; Burn ury; Carpets; Draperies; Fabrics; Flammability; Heat flux; andards; 16144. SP305-8.

ium; Energy levels; Ionization energy; Spectrum; 15924. 305-8.

ium; Ternary diffusion; Thermomigration; Thulium; Tita- ni; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffu- ion; Beryllium; Cerium; Cesium; Chromium; Copper; Diffu- ion; Electromigration; Europium; *J. Phys. Chem. Ref. Data No. 1*, 177-250 (1975). SP305-7.

ium; Thulium; Ytterbium; Cerium; Dysprosium; Erbium; ropium; Gadolinium; Hafnium; Holmium; Ionization ener-; Lanthanum; Lutetium; Neodymium; Praseodymium; omethium; Samarium; 13703. SP305-5.

ium; Transition probabilities; Oscillator strengths; Spectra, omic; 10739. SP305-1.

ium compounds; Thulium compounds; Ytterbium com- pounds; Cerium compounds; Dysprosium compounds; Enthal- py; Entropy; Erbium compounds; Europium compounds; adolinum compounds; Gibbs energy of formation; Holium ompounds; Lanthanides; *TN270-7*. SP305-5.

Terbium oxide; Higher oxides; Hydrothermal crystal growth; Oxide structures; Praseodymium oxide; Single crystal; *SP364*, pp. 343-351. SP305-4.

Terbium-iron; Amorphous alloys; Amorphous magnetism; Coer- cine magnetic force; Magnetic structure; Neutron diffraction; Recrystallization; 15297. SP305-7.

Term rank; Algorithms; Combinatorics; Indeterminates; Linear algebra; Matroids; Systems of distinct representatives; *J.71B4-250*, 241-245 (1967). SP305.

Term values; Wavefunctions; Multiplet strength; Self-consistent field; *J.71A2-447*, 157-162 (1967). SP305.

Terminal impedance; Antennas; Circuits; Contiguous electronic circuit; Electronic circuit; Information energy; 10198. SP305-1.

Terminal invariant; Attenuation; Impedance; Microwave power; Precision connector; *Monogr. 112*. SP305-1.

Terminal invariant; Microwave measurements; Power equation; Power measurement; *TN637*. SP305-5.

Terminal units; Aluminum; Ducts; Fire tests; Flexible connec- tors; Furnace pressures; Glass fiber; Heat ventilating and air conditioning systems; High-rise buildings; Optical density; Steel; *NBSIR 75-673*. SP305-7.

Terminal units; Aluminum; Ductwork; Fabric; Fiberglass; Fire tests; High rise buildings; HVAC systems; Steel; 13792. SP305-5.

Terminals; Acceptance tests; AID; Bolivia; CENACO; Comput- ing using Spanish; Foreign relations; International agreement; Lectures; OMNTAB II computing system; Technology transfer; *NBSIR 76-1176*. SP305-8.

Terminals; Aluminum wire; Splices; *NBSIR 76-1039*. SP305-8.

Terminals; Security; 16048. SP305-8.

Terminals; Throughput; TRIB; Data communications; Modems; *TN779*. SP305-5.

Terminals; Verification; ADP security; Computer networks; Controlled accessibility; Encryption; Evaluation criteria; Key; Password; Personal identification; 16013. SP305-8.

Termination mismatch error elimination; Thin-film bolometers; Voltage measurement; BOLOVAC; Calibration of current meters through microwaves; Calibration of power meters through microwaves; Calibration of voltmeters through microwaves; Current measurement; *Monogr. 123*. SP305-4.

Termination rates; Transition state for termination; Acetylene reaction with O<sub>2</sub>; Activation energy for oxidation; Chain lengths in oxidation; Elementary steps in oxidation; Epoxidation; Gas-phase oxidation; Kinetics; *SP357*, pp. 121-129. SP305-4.

Terminations, rope; Weathering, simulated; Aramid fiber rope; Breaking load, rope; Cable, aramid-fiber; End fittings, rope; Fatigue damage; Rope, aramid-fiber; Slings, cargo; *NBSIR 76-1159*. SP305-8.

Terminology; Data base; Data integration; Implementation; Modelling; Technology; 16329. SP305-8.

Terminology; Definitions; Heat constants; Heat units; Methods of calorimetry; Standard reference substances; Symbols; 10960. SP305-2.

Terminology; Geometrical radiative transfer; Nomenclature; Optical radiation; Fluometry; Photometry; Radiometry; 13255. SP305-5.

Terminology; Validation; Warranty; Accuracy; Audit; Certifica- tion; Code-independent; Documentation; Optimization; Preci- sion; Run statistics; Security; *SP406*, pp. 141-144. SP305-7.

Terminology; Vocabulary; Computer networks; Glossary; Telecommunications; Teleprocessing; *TN803*. SP305-6.

Terminology, dental; Certification; Dental specification; Eu- ropean dental specifications; FDI; ISO; *SP354*, pp. 213-215. SP305-4.

Terminology standards; Allan variance; Frequency stability measurements; Measurement system description; Phase noise, spectral density; Stability definitions; *TN632*. SP305-5.

Terminology standards; Allan variance; Frequency stability measurements; Measurement system description; Phase noise; Spectral density; *NBSIR 74-396. SP305-6.*

Termolecular; Third body; Bimolecular; Chlorine; Dissociation; Evaluation; Fluorine; Gas; Recombination; Review; *14420. SP305-6.*

Terms; Vocabulary; Computer; Data processing; Definitions; Federal Information Processing Standards Publication; Information processing; Privacy; Security; *FIPS PUB 39. SP305-8.*

Terms; Vocabulary; Computers; Data processing; Definitions, Federal Information Processing Standards Publication; Information processing; *FIPS PUB 11. SP305-2.*

Terms in reflectometry; Definitions in reflectometry; Photometry; Radiometry; Reflectance; Symbols in reflectometry; *9823. SP305-1.*

Terms, V IV and V V spectra; Vanadium, the fourth and fifth spectra of; Atomic spectra, V IV and V V; Classified lines, V IV and V V spectra; *J.72A No. 4, 295-308 (1968). SP305-1.*

Ternary chalcogenides; Transition metals; Crystal structure; Magnetic properties; Rare earth; *SP364, pp. 645-650. SP305-4.*

Ternary diffusion; Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; Diffusion; Electromigration; Europium; *J. Phys. Chem. Ref. Data 4, No. 1, 177-250 (1975). SP305-7.*

Ternary eutectic; Thermosetting monomers; Biomaterials; Dimethacrylates; Phthalate monomers; Purification methods; Resins for composites; *11802. SP305-3.*

Ternary glasses; Barium glasses; Barium silicates; Glass properties; Glass property factors; Oxide glasses; Silicate substructures; *Monogr. 135. SP305-5.*

Ternary ion association complexes; Trace; Directly in organic phase; Exchange reactions; Spectrofluorometric; Spectrophotometric; *11681. SP305-2.*

Ternary liquid mixtures; Thermodynamics; Binary liquid mixtures; Critical opalescence; Critical phenomena; Critical point; Critical region; Equilibrium critical phenomena; Gases; Liquids; Liquid-vapor systems; Phase transitions; *SP327. SP305-2.*

Ternary metal-sulfur arrays; Transition elements; Triphenylphosphine; Tungsten bronze; Electrocatalysis; Fuel cells; Mixed oxides; Oxygen reduction; Phosphoric acid; *NBSIR 75-742. SP305-8.*

Ternary Ni<sub>2</sub>In-related phases; TiNiSi; Fe<sub>2</sub>P and Mn<sub>2</sub>Si<sub>3</sub>; Metal-metal bonding; Metal-site occupancies; Ni<sub>2</sub>In; Ordered ternary silicides and germanides; Silicides and germanides; *SP364, pp. 613-622. SP305-4.*

Ternary solutions; Thermodynamics; Young's mixture rule; Electrolytes; Excess thermodynamic properties of mixtures; Mixture; *14515. SP305-6.*

Ternary system; Adsorption; Hydrogen; Kinetics; Methane; Nitrogen; *11748. SP305-2.*

Ternary system; Argon; Binary system; Excess Gibbs energy; Liquid-vapor; Methane; Nitrogen; Phase equilibria; *13205. SP305-5.*

Ternary system; Diaphragm cell; Diffusion coefficients; Least squares calculation; *J.73A No. 1, 43-49 (1969). SP305-1.*

Ternary system; FeO-SiO<sub>2</sub>-TiO<sub>2</sub> system; High pressure; High temperature; *SP364, p. 483. SP305-4.*

Ternary system; X-ray investigations; Binary system; Boron; Carbon; Chemical analysis; Melting-point determination; Metallography; Phase-field division; Silicon; Solubilities; *SP364, pp. 505-513. SP305-4.*

Tertiary; Fluorine; Iron; Photon; Reaction; *SP425, pp. 328-331. SP305-7.*

Tertiary; Theoretical; Cross sections; Energy distributions; Photon; *SP425, pp. 317-319. SP305-7.*

Test; Assessment; Complex; Composite; Computer; Critical Evaluation; Gaussian primes; Indexing; Measurement; Performance; Prime; Program; *TN572. SP305-3.*

Test; Evaluation; MOSFETS; Neutrons; Pu<sup>239</sup>-Be; Radio simulation; RTG; *SP336, pp. 129-140. SP305-3.*

Test; Testing; Tipping; Home playground equipment; Stab Strength; *NBSIR 74-621. SP305-7.*

Test; Thermometer; Thermometer leads; Thermostated thermometer; Vacuum; Water tight; Bridge; Deep-sea thermometer; Pressure; Oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure Pressure vessel; Resistance; *TN894. SP305-8.*

Test; Transfer impedance; Transmissivity equalization; Vibration; Acceleration response; Evaluation; Fatigue life; Lun parameter system; Mechanical impedance; Random vibration; *SP336, pp. 509-524. SP305-3.*

Test; Vapor meter; Volume; Bell prover; Calibration; Insulation; Liquefied petroleum gas; Pressure; Report form; Temperature; Temperature compensator; *H117. SP305-7.*

Test; Walls; Wind loads; Windows; Curtain walls; Doors; *14593. SP305-6.*

Test circuit, telephone arrester; Gas tube arresters, impulse testing; Impulse test circuit, gas tube arresters; Impulse testing, lightning arresters, telephone; Lightning arrester; telephone; Measurement, impulse, telephone arrester; *12600. SP305-4.*

Test comparison; UK; USA; Fire propagation test; Fire test; Smoke density chamber; Smoke tests; *16125. SP305-8.*

Test data, analysis; Test methods, comparison of; Homogeneity tests of; Data processing; Design of experiments; Performance tests; Polymers, analysis of test data in statistical analysis; *9921. SP305-1.*

Test data bases; Test transactions; Benchmark testing; Database management; Performance measurement; *15000. SP305-7.*

Test development; Annual report to Congress; Blankets; Carpets and rugs; Children's sleepwear; Cooperation; Flammability; Flammability reduction; Mattresses; Research; Standards; *TN596. SP305-3.*

Test development; Performance language; Performance specifications; Performance type tests; *11610. SP305-2.*

Test development; Upholstered furniture; Annual report to Congress; Blankets; Children's sleepwear; Flammability; Flammability reduction; Mattresses; Research; Sample plans; Standards; *TN749. SP305-4.*

Test device evaluation; Criteria; Decision making; Hardware systems; Measuring instruments; Research assistants; *16000. SP305-8.*

Test editing displays; User control functions; Visual display; Alphanumeric displays; ASCII Code; Cathode-ray-tube displays; Control functions; Display terminals; Interactive terminals; Remote computer terminals; Soft copy; *14000. SP305-6.*

Test equipment; Compression tests; Dynamic loads; High-speed photography; Indicating instruments; Indicator characteristics; Loading rate; Loads (forces); Motion picture cameras; Photographic equipment; Static loads; *14000. SP305-3.*

Test equipment records; Use, storage, or surplus; Data for sale; Standards laboratory management; *SP335, pp. 9-10. SP305-3.*

Test equipment reliability; Automated test equipment; Automated tests for jet engine fuel controls; Computer integration; Digital computer controlled tests; Jet engine fuel control testing; Minicomputer applications; Minicomputer control tests; Supervisory control; *15087. SP305-7.*

Test extrudate; Extrusion plastometer; Load; Melt flow index; Orifice; Orifice die; Preliminary extrudate; *J.76A No. 2, 146 (1972). SP305-4.*



- ility; Ballistic missiles; Heat protection; Reentry; *SP336*, 893-904. **SP305-3.**
- ility; Vacuum; Chemical analysis; Contamination; Organic residues; Outgassing; Polymeric materials; Residual gas analysis; *SP336*, pp. 1-24. **SP305-3.**
- se schedule; Test procedures; Calibration services; Fees testing; *SP250, 1970 Edition. SP305-3.*
- se schedule; Test procedures; Calibration services; Fees testing; *SP250, 1968 Edition. SP305-1.*
- xtures; Axial loading; Fatigue machine; Misalignment; *80. SP305-1.*
- or symmetry; Contingency table analysis; Homogeneity of ginals; Minimum discrimination information estimation; *11. SP305-2.*
- ads, hydraulic; Trap-seal reduction detector; Trap-seal ation; Crossflow; Field testing, plumbing; Performance oria, plumbing; Performance, functional; Single-stack age; Siphonage, induced; Siphonage, self; *13778. SP305-*
- asure; Volumetric transfer calibration; Check standard; ure; Gravimetric calibration; Standard deviation; *NBSIR 54. SP305-6.*
- asures; Tolerances; Weights and measures inspection; arate measurements of volumes; Field standard; Metal etric field standards; Provers; Specifications; *H105-3. 05-3.*
- ethod; ASTM; Classification; Fire hazard; Participation; erty; System; *16124. SP305-8.*
- ethod; ASTM E 84; Carpets; Energy balance; Flame ad; Mass balance; *NBSIR 75-705. SP305-7.*
- ethod; Component; Criteria; Development; Equipment; ard; Hazardousness; Home playground; Identification; ap; Misuse; Product defect; Safety standards; Swing set; *27. SP305-6.*
- ethod; Dynamic calibration and telemetering; Electro- nical; Pressure; Transducer; Calibration; Performance; *11. SP305.*
- ethod; Fire modeling; Fire test methods; Flame spread; *11, pp. 90-96. SP305-6.*
- ethod; Flame spread; Floor covering materials; Model odor; Scaling laws; *NBSIR 73-199. SP305-6.*
- ethod; Theory; Corridor fire; Experiments; Flame ad; Floorcovering; *15617. SP305-7.*
- ethod; Thermal radiation; Thermal transient; Zero shift; elerometer; Performance characteristics; Piezoelectric; *55. SP305-7.*
- ethod; Thermal transient; Laser; Performance charac- tic; Pressure transducer; Temperature effects; *TN723. 05-4.*
- ethod; Transducer; Calibration; Dynamic calibration; tro-mechanical; Performance; Pressure; Telemetering; *66. SP305-1.*
- ethod; Tread wear; Automobile tires; Environmental ef- s; *13733. SP305-5.*
- ethod; Tread wear; Automobile tires; Environment, grad- Pavement; Rating; *12874. SP305-4.*
- ethod; Tread wear; Automobile tires; Grading; Rating; *00. SP305-3.*
- ethod; Vertical loads; Wall panels; Walls; Lateral loads; ding rate; Racking; *BSS91. SP305-8.*
- ethod; Visibility; Building materials; Fire; Fire services; ke; Smoke density chamber; Smoke potential; *TN757. 05-5.*
- ethod; Wall panels; Walls; Compression; Eccentric load- Flat-end; Kern; Loading rate; Pin-end; *NBSIR 75-779. 05-8.*
- ethod, bicycle; Bicycle brakes; Brakes, bicycle; Dynam- icycle; Error analysis; Friction, tire/pavement; Kinetics, cle; Measurements, bicycle braking; Pitchover; Stan- ds, bicycle safety; *NBSIR 75-786. SP305-8.*
- Test method evaluation; Youden diagram; Collaborative reference programs; Interlaboratory tests; *13955. SP305-6.*
- Test method standard; ASTM E 84; Building materials; Car- pets; Fire tests; Flame spread tests; Interlaboratory evalua- tion; Round robin; Statistical analysis; *13530. SP305-5.*
- Test methods; Abrasion resistance; Chemical resistance; Cigarette-burn resistance; Cleanability and soilability; Con- centrated static-load capacity; Performance characteristics; Performance level; Sanitary plumbing fixtures; Scratch re- sistance; Stain resistance; Surface-impact resistance; *BSS22. SP305-2.*
- Test methods; Accelerated laboratory tests; Double-glazed win- dow units; Factory-sealed insulating glass units; Field per- formance tests, correlation with laboratory tests; Sealant per- formance; Standardized testing; *BSS20. SP305-2.*
- Test methods; Accident reports; High chairs; Infants; Safety standards; Stability and strength; *NBSIR 74-509. SP305-6.*
- Test methods; Accuracy; Paper; Precision; Standards; *10388. SP305-2.*
- Test methods; Aerosols; Ionization chambers; Light attenuation; Scattered light; Smoke detectors; *NBSIR 76-1037. SP305-8.*
- Test methods; Airframe fastener; Double shear; Fatigue; Single shear; Tension-bending; *NBSIR 74-465. SP305-6.*
- Test methods; Analyses; International Commission on Rules for the Approval of Electrical Equipment; International Elec- trotechnical Commission; International Organization for Stan- dardization; International Organization of Legal Metrology; *SP390. SP305-6.*
- Test methods; Apparel materials; Quality control; *10316. SP305-1.*
- Test methods; Bituminous roof membranes; Performance at- tributes; Performance criteria; Physical and engineering prop- erties; *BSS55. SP305-6.*
- Test methods; Bituminous roof membranes; Performance at- tributes; Performance criteria; Physical and engineering prop- erties; *15629. SP305-7.*
- Test methods; Bituminous roof membranes; Fatigue testing; Flexural fatigue; Performance criteria; Roofing; Temperature effects; Tensile fatigue; *TN863. SP305-7.*
- Test methods; Certification and labeling plans; Government standardization, U. S.; Specifications; Standardization activ- ities, U. S.; Standards; *M288. SP305.*
- Test methods; Codes; Consensus system; Directory; Federal Government—standardization; Industry standards activities; National standards activities; Recommended practices; Specifications; Standardization activities; Standards; States—standardization activities; *SP417. SP305-7.*
- Test methods; Conservation; Consumer satisfaction; Economic design; Product safety; Standards; *13123. SP305-5.*
- Test methods; Contrast transfer function; Distortion; Flare; Light equivalent background; Light induced background; Night vision devices; Optical gain; *14551. SP305-6.*
- Test methods; Experimental error; Measurement; Statistical control; Statistical design; *13001. SP305-4.*
- Test methods; Fire detector; *NBSIR 76-1172. SP305-8.*
- Test methods; Head injury; Helmets; Math model; Protective headgear; Safety; *NBSIR 76-1107. SP305-8.*
- Test methods; Interlaboratory studies; Measurement; Precision accuracy; *14280. SP305-6.*
- Test methods; Microelectronics; Monolithic microcircuits; Re- liability; Semiconductor devices; Silicon; *10858. SP305-1.*
- Test methods; Nonpolymeric constituents in plastics; Plastics testing; Polymer analysis; Properties; *16225. SP305-8.*
- Test methods; Plastics standardization; Specifications; Stan- dards; Standards organization; *16106. SP305-8.*
- Test methods; Textile types; Vehicle movement; Carpet; Floor coverings; Foot comfort; Performance requirements; Resilient types; *11792. SP305-2.*

Test methods; Textiles; Upholstered furniture; Apparel; Carpets; Curtains; Draperies; Fabrics; Flammability; Garments; 15470. SP305-7.

Test methods; Toys; Toy safety; Children; Children's strength; Pull-apart; Safety; Strength; *NBSIR 73-424. SP305-6.*

Test methods; Toys; Toy safety; Twist; Children; Children's strength; Pull; Push; Safety; Strength; Squeeze; 13595. SP305-5.

Test methods; Certification programs; Consumer products; Household products; Industry standards; International recommendations; National standards; Product standards; Recommended practices; Specifications; *TN762. SP305-5.*

Test methods; Transducer calibration; Evaluation; Measurement; Performance; Pressure; 11042. SP305-2.

Test methods; Transformations; Weighting; Interlaboratory comparisons; Invariance; Models; Precision; Precision of measurement; Repeatability; Reproducibility; 15909. SP305-8.

Test methods; Ultraviolet (UV) radiation; Water vapor; Weathering—artificial and natural; Yellowing; Atmospheric pollutants; Color—difference and representation; Impact resistance; Plastics; Rigid polyvinyl chloride (PVC); *SP361, Vol. 1, pp. 751-760. SP305-4.*

Test methods; Upholstered furniture; Bedding; Fabrics; Flammability; Hazards; Mattresses; 11709. SP305-2.

Test methods; Urban planning; User needs; Building systems; Performance of buildings; Standards; *BSS1. SP305-2.*

Test methods; Voluntary; Education; Efficiency comparison; Household appliances; Household equipment; Label developments; Labeling; Label specification; Monitoring priorities; Product classes; 15204. SP305-7.

Test methods; Walker-jumpers; Accident reports; Baby walkers; Infants; Safety standards; *NBSIR 74-434. SP305-6.*

Test methods; Walls; Building construction; Complete buildings; Floors; Roofs; Standardization; *BSS58. SP305-6.*

Test methods; Warmth to touch; Colour fastness; Flatness; Flooring; Indentation; Performance requirements; Properties; Quality classes; Rolling load; Surface evenness; *SP361, Vol. 1, pp. 601-612. SP305-4.*

Test methods; Water distribution; Water spray; Automatic sprinklers; Bibliography; Droplet size; Fire suppression; Spray nozzles; Spray patterns; *NBS-GCR-76-72. SP305-8.*

Test methods; Water resistance; Wear; Carpets; Cleanability; Conducting; Durability; Flooring; Identification; Resilience; Slip resistance; Static charge; *SP361, Vol. 1, pp. 799-806. SP305-4.*

Test methods; Watthour meters; Code; Definitions; Demand meters; Electricity metering; Performance requirements; Standards; 15829. SP305-8.

Test methods, comparison of; Homogeneity, tests of; Data processing; Design of experiments; Performance tests; Polymers, analysis of test data in statistical analysis; Test data, analysis; 9921. SP305-1.

Test methods, evaluation of; Interlaboratory testing; Precision; Repeatability; Reproducibility; 12333. SP305-3.

Test methods for metal coatings; Testing electrodeposits; Coatings; Electroplated coatings; Metal coatings; 14743. SP305-7.

Test methods for paper; Treatment of paper; Paper; Paper test methods; Restoration; Restoration of paper; 14658. SP305-6.

Test methods, FRP rod; Weatherability, FRP rod; Composite materials; Fiber-reinforced-plastic rod; Glass-reinforced-polyester rod; Guys, antenna; Processing parameters, pultrusion; Pultrusion; Reinforced plastic rod; Stress rupture of FRP rod; *NBSIR 74-557. SP305-7.*

Test methods, textile; Testing equipment, textile; Textile testing; Apparel materials; Equipment, textile testing; Fabric defects; Physical properties, fabrics; Programs, textile testing; 10843. SP305-1.

Test methods, textile; Testing equipment, textile; Apparel materials; Equipment, textile testing; Physical properties, fabrics; Programs, textile testing; 10844. SP305-1.

Test methods, textile; Testing programs, apparel industry; Textile testing, apparel materials; Apparel industry; Equipment, textile testing; Industry, apparel; Performance, apparel materials; Properties, apparel; Quality control, apparel industry; 12435. SP305-4.

Test pattern; Epilayer thickness; Silicon; Spreading resistance; *SP400-10, pp. 217-221. SP305-6.*

Test pattern; Test structures; Dopant density; Microelectronic MOS capacitors; *n-p-n* transistor fabrication; *p-n* junction resistivity; Semiconductor electronics; Sheet resistors; *icon; SP400-22. SP305-8.*

Test patterns; Choice of dosimeters; Electrons; Ferrous dosimeters; Medical applications; Performance criteria; Personnel monitoring; Photographic film; Photons; Radiations; 14095. SP305-6.

Test patterns; Data acquisition; Data display; Integrated circuits; Measurement technology; Microelectronics; Process control; Reliability; Semiconductors; Silicon; *SP 400-22. SP305-8.*

Test patterns; Test structures; Hardened integrated circuits; Integrated circuits; Radiation effects; Radiation hardened; *NBSIR 76-1093. SP305-8.*

Test patterns; Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; Wire bonds; Contact resistance; Die attachment; Dopant profiles; Electrical properties; Electronics; Gold-doped silicon; Hermetic Metallization; Methods of measurement; *SP400-1. SP305-5.*

Test patterns; Thermal resistance; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Thermally stimulated current; Voltage contrast mode; Wire bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; *SP400-8. SP305-7.*

Test patterns; Thermal resistance; Thermal response; Transistors; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; *SP400-19. SP305-8.*

Test patterns; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Thick film; Copper; Voltage contrast mode; Wire bonds; X-ray photoelectron spectroscopy; Boron redistribution; Collector resistor; Doping profiles; Effective masses; *SP400-4. SP305-6.*

Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; *SP400-12. SP305-7.*

Test patterns; Thermally stimulated current; Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Boron nitride; Boron redistribution; Capacitance-voltage methods; Darlington pairs; Deep depletion; Dopant profiles; *SP400-17. SP305-7.*

Test patterns; Thermally stimulated currents; MOS capacitors; *p-n* junctions; Resistivity of silicon; Semiconductor device; Semiconductor process control; Sheet resistors; *SP400-25. SP305-8.*

Test patterns; Thermally stimulated current; Thermal resistance; Ultrasonic wire bonding; Voltage contrast mode; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; *SP400-25. SP305-8.*

Test patterns; TTL; Vendor qualification; Circuit procurement; Component screening; Custom circuits; LSI; Microelectronics; Parameter control; Process uniformity; Radiation faults; Reliability; 16620. SP305-8.

problem; Tolerance; Caterpillar Tractor Co.; Computer program; Documentation; Engineering drawing; General Motors Corporation; Metric conversion; Rounding; *TN872*. SP35-7.

Problems; Accuracy; ANSI FORTRAN; Computer system documentation; Examples; OMNITAB II; Software; *TN551*. SP35-3.

Procedures; Adhesives; Air-inflatable shelter sections; Cloth; Polyester and nylon fabrics; Sewn seams; Sewn seam seaming; Solar heat load; *NBSIR 74-467*. SP305-6.

Procedures; Automobile side impact; Crush characteristics; Placement measurements; Door structure; Drop tests; Impact crush tests; Impact collisions; Plastic deformation; Plastic crush tests; Strain measurements; Structural components; *NBSIR 74-605*. SP305-7.

Procedures; Breath alcohol; Instruments; Performance standard; Specifications; *14778*. SP305-7.

Procedures; Calibration services; Fees for testing; Test fee schedule; *SP250, 1970 Edition*. SP305-3.

Procedures; Calibration services; Fees for testing; Test fee schedule; *SP250, 1968 Edition*. SP305-1.

Procedures; Classification; Containment; Designation; Data sources; National standard; Radiation source; Radioactive; Radioluminous products; Self-luminous sources; *H116*. SP35-8.

Procedures; High temperatures; Materials evaluation; Materials; *16174*. SP305-8.

Program design; Computer programming language; FORTRAN; Language validation; Standard FORTRAN; *13788*. SP35-5.

Program design; Computer programming language; FORTRAN; FORTRAN validation; Language validation; Standard FORTRAN; *SP399, Volume 1*. SP305-6.

Program design; Computer programming language; FORTRAN; FORTRAN validation; Language validation; Standard FORTRAN; *SP399, Volume 2*. SP305-6.

Program design; Computer programming language; FORTRAN; FORTRAN validation; Language validation; Standard FORTRAN; *SP399, Volume 3*. SP305-6.

Repeatability; Air flow, energy input; Flamecover; Flame spread; Floor covering flammability; Model corridor; *NBSIR 76-100*. SP305-6.

Results; Use of structural analogs; Analysis and performance tests combined; Computerized analysis; Plane stress structures; *SP361, Vol. 1*, pp. 535-543. SP305-4.

Tests; Electric equipment; Electrical safety; Hospital safety; Leakage currents; Testing; *12401*. SP305-4.

Structures; Dopant density; Microelectronics; MOS capacitors;  $n$ - $p$ - $n$  transistor fabrication;  $p$ - $n$  junctions; Resistivity; Semiconductor electronics; Sheet resistors; Silicon; Test patterns; *SP400-22*. SP305-8.

Structures; Hardened integrated circuits; Integrated circuits; Radiation effects; Radiation hardening; Test patterns; *NBSIR 76-1093*. SP305-8.

Transactions; Benchmark testing; Data base management; Performance measurement; Test data bases; *15670*. SP305-7.

Variability; Acceptance sampling; Letter; Quality control; Sampling; Statistics; *9922*. SP305-1.

Weight; Tilt angle; Toy testing; Abuse testing; Dynamic stability; Hazards; Obstruction; Riding toys; Stairway; Static stability; *NBSIR 74-623*. SP305-7.

Weights; Tolerances; Weights and measures inspection; Weights used by servicemen; Field standard weights; Specifications; *H105-1, (Revised 1972)*. SP305-4.

Light; Absorption; Coatings; High-power laser; Measurement; Surface; *SP387*, pp. 189-193. SP305-5.

Light; Accelerated aging; Aging of buildings; Building components; Climate; Criteria; Deterioration; Durability; Material Mechanisms; Nondestructive testing; *13637*. SP305-5.

Testing; Acceptance testing; Compliance testing; Laboratory evaluation; Performance testing; Qualified products lists; *NBSIR 75-719*. SP305-8.

Testing; Aging; Alkalinity; Burst strength; Degradation; Differential thermal analysis; Durability; Manifold papers; Loads; PH; Reflectance; Stability; Storage; Tear strength; *12834*. SP305-4.

Testing; Algorithms; Mathematical programming standards; *15605*. SP305-7.

Testing; Automotive; Brake; Brake fluid; Brake lining; Standards; *12398*. SP305-4.

Testing; Basic and applied research; Calibration; Instrumentation; Interchangeability of parts; Mass production; Standardization; *9350*. SP305.

Testing; Bicycles; Braking; Consumer safety; Handbrake; Safety; *NBSIR 75-755*. SP305-8.

Testing; Bicycles; Braking; Consumer safety; Handbrakes; *NBSIR 75-953*. SP305-8.

Testing; Building composite; Building material; Conditioning; Equilibration; Gypsum wallboard; Methodology; Relative humidity; Structural sandwich panel; Temperature; *NBSIR 75-767*. SP305-7.

Testing; Certification; Developing countries; Exports; Industrializing countries; Labeling; Seminar; South Asia trade; *SP438*. SP305-8.

Testing; Data acquisition; Data dissemination; Data processing; Maintenance; Operational readiness; Performance monitoring; *SP336*, pp. 549-568. SP305-3.

Testing; Detection models; Detections; Generalized Poisson process; Statistical tests; *14717*. SP305-6.

Testing; Engineering, instrumentation and techniques; Fluids; Force; Hydraulic equipment; Mechanical power; Noise; Pressure; Quality control; Safety; *16452*. SP305-8.

Testing; Test sets; Electric equipment; Electrical safety; Hospital safety; leakage currents; *12401*. SP305-4.

Testing; Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; Foil paper; Instrument characteristics; Materials testing; Measuring instruments; Mechanical properties; Mechanical testing; Paper; *11706*. SP305-2.

Testing; Testing equipment; Vertical tests; Flammability; Strip tests; *12656*. SP305-4.

Testing; Thermal transients; Architectural heritage; Fire; Guardrail; High-capacity; Mathematics; Mercury; Performance standard; Pressure transducers; SRM; Surgical implants; *DIM/NBS 60, No. 8, 1-24 (1976)*. SP305-8.

Testing; Tipping; Home playground equipment; Stability; Strength; Test; *NBSIR 74-621*. SP305-7.

Testing; Transverse electromagnetic; Compatibility; Standard fields; Susceptibility; *14725*. SP305-7.

Testing; Ultraviolet detectors; Detection; Fire detectors; Flame detectors; Heat detectors; Infrared detectors; Smoke detectors; *NBSIR 76-1040*. SP305-8.

Testing; Validation; Algorithms; Mathematical functions; Performance; Standards; *14061*. SP305-6.

Testing; Variability; Accelerated aging; Building systems; Extreme loads; Performance criteria; Performance evaluation; Service loads; Stiffness; Strength; *SP361, Vol. 1*, pp. 267-274. SP305-4.

Testing; Voice privacy; Intelligibility; LESL; NILECJ; Performance standard; Privacy; Scramblers; Speech quality; Speech scramblers; Survey; *14714*. SP305-6.

Testing; Volatile products; Absorption; Condensation; Contamination control; Evaluation; Far infrared; Fluid dynamic force; Microorganisms; Optical properties; Planetary quarantine; Polymers; Shock force; Space simulation; *SP336*, pp. 51-77. SP305-3.

Testing; Walls; Lime (dolomitic); Masonry; Mortars (materials); Portland cement; *15992*. SP305-8.

- Testing; Water-spray repelling; Components; Dirt repelling; Evaluation; Feed-back; Open system; Performance requirement; Scratch resistance; *SP361, Vol. 1, pp. 529-534. SP305-4.*
- Testing and rating methods; Air leakage; Cooling load; Refrigerated trucks; Solar heating; *9531. SP305-1.*
- Testing electrodeposits; Coatings; Electroplated coatings; Metal coatings; Test methods for metal coatings; *14743. SP305-7.*
- Testing equipment; Analysis of variance; Analyzing; Bursting strength; Burst testers; Comparisons; Evaluation; Foil paper; Instrument characteristics; Materials testing; Measuring instruments; Mechanical properties; Mechanical testing; Paper; Precision; *11706. SP305-2.*
- Testing equipment; Vertical tests; Flammability; Strip tests; Testing; *12656. SP305-4.*
- Testing equipment, textile; Apparel materials; Equipment, textile testing; Physical properties, fabrics; Programs, textile testing; Test methods, textile; *10844. SP305-1.*
- Testing equipment, textile; Textile testing; Apparel materials; Equipment, textile testing; Fabric defects; Physical properties, fabrics; Programs, textile testing; Test methods, textile; *10843. SP305-1.*
- Testing facilities; Bolivia; Measurements; Quality control; Standardization; *NBSIR 76-1099. SP305-8.*
- Testing facilities; Building technology; Information handling; Measurement services; Philippines; Standardization; *NBSIR 76-1083. SP305-8.*
- Testing laboratories; Accreditation; Certification; Evaluation; National system; Reference samples; *13056. SP305-4.*
- Testing laboratory; Building codes; Building manufacturer; Coordinated Evaluation System; Engineering analysis; Laboratory accreditation; Laboratory Evaluation and Accreditation Program (LEAP); Model Code Standardization Council; *13057. SP305-4.*
- Testing machine; Creep; Instrumentation; Stress rupture; *NBSIR 76-1074. SP305-8.*
- Testing machines; Engineering Mechanics Section; Force generating equipment; Research facilities; *SP370. SP305-5.*
- Testing method; Air exchange; Calculation method; Cooling load; Door usage; Helium trace measurement; Refrigerated trucks; *10701. SP305-1.*
- Testing methods for pulp; ISO recommendations; Pulp; Pulp, testing methods; *NBSIR 73-416. SP305-6.*
- Testing of cement; Hydraulic cement; *12492. SP305-4.*
- Testing of information systems; Effectiveness; Evaluation; Performance; Relevance; *TN297. SP305.*
- Testing of lenses; Interferometer; Lens aberrations; Prism interferometer; *9231. SP305.*
- Testing of microcalorimeter; Clinical chemistry; Clinical microcalorimetry; Microcalorimeter; NBS microcalorimetry; *NBSIR 73-180. SP305-6.*
- Testing of optics; Interferometry; Optical shop testing; Shearing interferometer; *14533. SP305-6.*
- Testing of spectrophotometers; Transmittance (absorbance) accuracy; Wavelength accuracy; Accuracy in spectrophotometry; Glass filters; Spectral bandpass; Spectrophotometry; Standard reference materials; Stray radiation; *SP260-51. SP305-7.*
- Testing of vehicles; Wind effects on structures; Air leakage; Cooling load measurement; Refrigerated enclosures; *14799. SP305-7.*
- Testing plumbing systems; Vents for plumbing; Hydraulic criteria for plumbing; Hydraulic test loads; Plumbing vent sizing; Reduced-size vents; Sanitary DWV systems; Secondary ventilation; *BSS49. SP305-6.*
- Testing procedures; Bookbinders; Book cloths; Book covers; Buckrams; Starch filled; Impregnated; *PS9-68. SP305-1.*
- Testing program; Appearance properties; Paper research; Preservation of records; Tear reference; *11842. SP305-3.*
- Testing programs, apparel industry; Textile testing, apparel materials; Apparel industry; Equipment, textile testing; Industry, apparel; Performance, apparel materials; Properties, apparel; Quality control, apparel industry; Test methods, textile; *12435. SP305-4.*
- Testing programs, sewing thread tests, sewing thread; Thread properties; Threads, sewing; Apparel industry; Industry, apparel; Performance, sewing thread; Properties, sewing thread; Quality control, sewing threads; Sewing threads; *12. SP305-4.*
- Testing sand; Cement strength; ISO cement standards; Segregation; *10946. SP305-2.*
- Testing software; Dynamic analysis; Proof of correctness; Software reliability; Static analysis; *14640. SP305-6.*
- Testing techniques; Aluminum alloys; Copper alloys; Magnesium alloys; Nickel alloys; Steels; Stress corrosion; Stress corrosion failures; *9902. SP305-1.*
- Testing techniques; Chloride; Crevice corrosion, ellipsometry failure prediction; Molybdenum; Repassivation kinetics; Stainless steels; Stress corrosion; *NBSIR 74-583. SP305-7.*
- Testing textiles; Wash-and-wear; Apparel; Care instructions; Labeling, apparel; Performance, apparel; Properties, apparel; *11492. SP305-2.*
- Testing tools; Dynamic analysis; NBS analyzer; NBS TRAN test routines; Networking; Systematic testing; *TN. SP305-7.*
- Testing (wire bond); Thermocompression bonding; Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; *TN726. SP305-4.*
- Testing (wire bond); Ultrasonic bonding; Wire bond; Minimum wire; Bonding; Fabrication (wire bonds); Microelectronics; Ribbon wire; Round wire; *TN767. SP305-5.*
- Testing (wire bond); Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; Integrated circuits; Microelectronics; Reliability; *SP400-2. SP305-6.*
- Testing (wire bond); Wire bond; Bonding; Electrical connection; Failure (wire bond); Integrated circuits; Microelectronics; Reliability; Semiconductor devices; *TN786. SP305.*
- Testing (wire-bond); Wire-bond; Bibliography; Degradation (wire-bond); Discrete devices; Electrical interconnection; Fabrication (wire-bond); Failure (wire-bond); Hybrid circuits; Integrated circuits; Microelectronics; Reliability; *TN593. SP305-4.*
- Tests; Agrément; Building components; Durability; Material Performance; *SP361, Vol. 1, pp. 165-170. SP305-4.*
- Tests; Analysis; Concrete beams; Concrete plates; Discrete openings; Serviceability; Strength; Structural performance; *SP361, Vol. 1, pp. 545-556. SP305-4.*
- Tests; Calorimetry; Combustibility; Evaluation; Fire tests, of combustion; Interlaboratory tests; Oxygen bomb; Pot heat; *11627. SP305-2.*
- Tests; Codes; Examination procedure; Inspection; Meters; Lines; Scales; *1112. SP305-5.*
- Tests; Dynamic tests; Earthquake simulator; Shake table; Structural engineering; *SP444, pp. V-25-V-34 (Apr. 1975). SP305-8.*
- Tests; Fabric flammability; Fabrics; Ignition; Heat energy; *GCR-76-70. SP305-8.*
- Tests; Torsional excitation; Damping; Damping coefficient; Shear modulus; Soil; *SP444, pp. III-72-III-83 (Apr. 1975). SP305-8.*
- Tests; Uniforms; Upholstered furniture; Apparel; Burn injuries; Carpets; Draperies; Fabrics; Flammability; Heat flux; Hardness; Tents; *16144. SP305-8.*



User needs; Carpets; Floor coverings; Government; Performance; Procurement; Specifications; Standards; *TN822*. SP305-6.

Viscosity; Electron damage; Electron energy; Electron resonance; Evaluation; Gel; Mechanical properties; Optic properties; Plastic films; Poly(ethylene terephthalate); Proton damage; Proton energy; Radiation effect; *SP336*, pp. 1-344. **SP305-3.**

Wagner turbidimeter; Air-permeability; Cements; Fineness; No. 325 sieve; Portland cements; Precision; *13855*. SP305-6.

Web; Beams; Design criteria; Joists; Openings; Shear length; *14663*. **SP305-6.**

X-ray spectra; X-ray spectrometers; Electron diffraction; Electron probes; Evaluation; Gas flow; Lithium; Microanalysis; Multichannel analyzer; Proportional counters; Quantitative analysis; Solid state counters; *12251*. **SP305-3.**

Paper; Accelerated aging; Aging; Aging of cellulose; Aging of paper; Cellulose; Cellulose aging; Natural aging; Paper; Paper aging; *NBSIR 74-499*. **SP305-6.**

Absorption; permeability and capillary elevation; Capillary elevation (head); Coefficient of permeability; Kinetics of sorption; Open pores; Steady and unsteady flow; *SP361*, pp. 653-668. **SP305-4.**

Distributional hypotheses; Correlation coefficient; Chi-squares; Normal distribution; Order statistics; Probability theory; Statistical methods; Statistics; *14856*. **SP305-7.**

Significance; Analysis of variance; Chi-square distribution; F-distribution; Components of variance; Confidence intervals; Estimation; Fixed effects; Model I; Model II; Random effects; *12643*. **SP305-4.**

Macrocyclic derivatives; X rays; Crystal structure refinements; Least-squares refinement; Molecular packing; *574*. **SP305-7.**

Chromophenolphthalein ethyl ester; Absorbance data; Acid-base association constants; Acid dimerization constants; Acid strengths in benzene; Aliphatic acids; Benzene; Chromophenolphthalein magenta E; Carboxylic acids; Comparative lengths; Diphenylguanidine; *9661*. **SP305-1.**

Calcium phosphate; Twinning; Crystal structure; Hydroxapatite; Single crystal x-ray diffraction; Structural relationships; *14263*. **SP305-6.**

Chlorocuprate ion; Copper doped tetrachlorozincate; X-ray analysis; Jahn-Teller effect; Polarized ultraviolet spectroscopy; *9191*. **SP305.**

Chlorocuprate ion; Single crystals; Band assignments; Charge transfer spectra;  $Cs_2CuCl_4$ ;  $Cs_2ZnCl_4(Cu)$ ; *10068*. **SP305-1.**

Chlorodiborane (4); Tetrafluorodiborane (4); Boron; Boron subhalides; Fluoroolefins; Halides; Haloolefin; Organoboron compounds; *12995*. **SP305-4.**

Chlorodiborane(4); Tetrafluorodiborane(4); Boron; Boron subhalides; Halides; Haloolefins; Organoboron compounds; *292*. **SP305-3.**

Chlorodiborane(4); Tetrafluorodiborane(4); Addition reactions; Boron; Boron subhalides; Organometallic compounds; *10530*. **SP305-1.**

Chlorodiborane(4); 1,2-bis(dichloroboryl)ethylene; Acetylene; Organoboron compounds; Proton magnetic resonance; Protonolysis; Stereochemistry; *10293*. **SP305-1.**

Cyanoguanidimethane; Tetrasulfur tetranitride; Tetraethiavalene; Vaporization; Chemical ionization mass spectrometry; Mass spectrometry; Sulfur nitride; *16422*. **SP305-8.**

Cyanotetrathiafulvalene; Tricyanotetrathiafulvalene triphenylphosphine;  $\Delta^{2,2}$ -bis-14,5-dicyano-1,3-dithiodene; 3-dithiolenes;  $^{31}P$  NMR; 4,5-dicyano-1,3-dithiolene-2-thione; Aryl phosphines; Cyclic voltammetry; Desulfurization; *15991*. **SP305-8.**

Tricyanotetrathiafulvalene-triphenylphosphine;  $\Delta^{2,2}$ -bis-14,5-dicyano-1,3-dithiodene; 1,3-dithiolenes;  $^{31}P$  NMR; 4,5-dicyano-1,3-dithiolene-2-thione; Aryl phosphines; Cyclic voltammetry; Desulfurization; Phosphines; *15991*. **SP305-8.**

Tetracycline; Activation analysis; Ancient stained glass; Carbon; Cockcroft-Walton neutron generator; Coincidence spectrometer; Group separations; Homogeneity testing; Hydrated antimony pentoxide; NBS LINAC; NBS reactor; Neutron flux measurements; *TN508*. **SP305-2.**

Tetradecyltrimethyl ammonium bromide; Decyltrimethyl ammonium bromide; Diffusion coefficient; Dodecyltrimethyl ammonium bromide; Standard free energy; *13294*. **SP305-5.**

Tetrafluorodiborane (4); Boron; Boron subhalides; Fluoroolefins; Halides; Haloolefin; Organoboron compounds; Tetrafluorodiborane (4); *12995*. **SP305-4.**

Tetrafluorodiborane(4); Addition reactions; Boron; Boron subhalides; Organometallic compounds; Tetrachlorodiborane(4); *10530*. **SP305-1.**

Tetrafluorodiborane(4); Boron; Boron subhalides; Halides; Haloolefins; Organoboron compounds; Tetrachlorodiborane(4); *12292*. **SP305-3.**

Tetrafluoroethylene; Copolymer; Fluoropolymer; Glass temperature; Isobutylene; Melting temperature; Polymer; Propylene; *14570*. **SP305-6.**

Tetrafluoroethylene; Copolymerization; Pentafluorostyrene; Polymerization; Pressure radiation; Reactivity ratios; *15281*. **SP305-7.**

Tetrafluoroethylene; Degradation; Fluoro-elastomer; Fluoropolymer; *13224*. **SP305-5.**

Tetrafluoroethylene; Tetrafluoropropene; Copolymerization; High pressure; Polymerization; Radiation; *13968*. **SP305-6.**

Tetrafluoroethylene; Tetrafluoropropene; Polymerizing material; Propene; Radiation-induced polymerization; *14225*. **SP305-6.**

Tetrafluoroethylene; Transverse excitation laser; 2-methyl propene; Carbon isotopes; Carbonyl fluoride;  $CO_2$  laser photolysis; Difluorocarbene; Difluorodichloromethane; Isotope ratio; Nitric oxide; Oxygen; *16657*. **SP305-8.**

Tetrafluoroethylene; Trifluoropropene; Copolymerization; Pressure; Radiation and reactivity ratios; *9602*. **SP305-1.**

Tetrafluoroethylene; 2,3,3,3-tetrafluoropropene; Polymerization; Pressure; Radiation-induced; *12384*. **SP305-4.**

Tetrafluoroethylene; 3,3,4,4,5,5,5-heptafluoropentene-1; Amorphous polymer; Copolymerization; Fluoropolymers; Glass temperature; High pressure; Radiation-induced; *11868*. **SP305-3.**

Tetrafluoroethylene-hexafluoropropylene; Comonomer concentration; Comonomer defect; Copolymers; Defect energy; Equilibrium melting temperature; Lamella thickness; Melting temperature; Surface energy; *9641*. **SP305-1.**

Tetrafluoropropene; Copolymerization; High pressure; Polymerization; Radiation; Tetrafluoroethylene; *13968*. **SP305-6.**

Tetrafluoropropene; Polymerizing material; Propene; Radiation-induced polymerization; Tetrafluoroethylene; *14225*. **SP305-6.**

Tetragonal; Burgers vector; Defect; Dislocation; Glide; Inclusion; Kink; *14706*. **SP305-6.**

Tetragonal bronzes;  $Ba_8Nb_6Li_2O_{24}$ ;  $BaO-Nb_2O_5-Li_2O$  systems;  $Ba_8Ta_8Li_2O_{24}$ ;  $Ba_{10}W_4Li_4O_{36}$ ; Close-packed oxides; *13742*. **SP305-5.**

Tetragonal form;  $BaB_2O_5$ ; Heats of transformation; Orthorhombic form; Polymorphism; *J.73A No. 6, 615-620 (1969)*. **SP305-1.**

Tetragonal molecular symmetry; Crystal spectra; Pyrazole complexes; *12706*. **SP305-4.**

Tetragonal nickel(II); X-ray crystal structure; Coordination complex; *11228*. **SP305-2.**

Tetrahedral; Crystal structure; Dichloro(1,10-phenanthroline)zinc; Molecular structure; *9499*. **SP305.**

- Tetrahedral; Energy levels; Hyperfine interactions; Methane; Selection rules; Symmetry species; 16376. SP305-8.
- Tetrahedral anion; X-ray diffraction; Calcium fluoroborate; Calcium salts; Crystal structure; Single crystal; 14976. SP305-7.
- Tetrahedral junction; Four-terminal; Hamon divider; Resistance network; Series-parallel; 14190. SP305-6.
- Tetrahedral point group; Group theory; Methane; Rovibronic symmetry species; Selection rules; 14138. SP305-6.
- Tetrahydrofuran; Dissociation constant; Ionization constant; Mixed solvents; *m*-nitroaniline; *J.74A No. 4, 495-497 (1970)*. SP305-2.
- Tetrahydrofuran; Hydroxyl radicals; Electron spin resonance; Free radicals; Polyvinyl alcohol; Polyethylene oxide; 9175. SP305.
- Tetrahydroxyquinone; Acetates; Benzenehexol; Disproportionation; Esters; Rhodizonic acid; 10936. SP305-2.
- Tetrahydroxyquinone; Acetates; Benzenehexol; Disproportionation; Esters; Rhodizonic acid; 11301. SP305-2.
- Tetrakis-pyrazole-nickel chloride; X-ray; Octahedral complex; Single crystal; Structure; 10240. SP305-1.
- Tetrakis-*t*-butoxyvanadium; Electron paramagnetic spectrum; Paramagnetic resonance spectrum; 9855. SP305-1.
- Tetramethylthiuram disulfide; Vulcanization; Zinc dibutylthiocarbamate; Zinc dimethylthiocarbamate; Accelerators; Far infrared; Natural rubber; Sulfur; *J.71A1-432, 19-23 (1967)*. SP305.
- Tetramolybdate; X-ray structure determination; Alkali metal; Bronze; Heptagonal holes; Hexagonal tungsten bronze; Lattice image; Molybdate; Molybdenum; Niobate; Niobium; Oxide; Single crystal; *SP364, pp. 15-27. SP305-4*.
- Tetranonacontane; Chain folds; Differential scanning calorimetry; Linear polyethylene fractions; Low angle x ray; Mechanical relaxation; 16289. SP305-8.
- Tetrapyrroles; Bilirubin; Bilirubin-lanthanide complexes; Bilirubin-transition metal complexes; Biliverdin; Solvents; Stability; 12512. SP305-4.
- Tetrasulfur tetranitride; Tetrathiafulvalene; Vaporization; Chemical ionization mass spectrometry; Mass spectrometry; Sulfur nitride; Tetracyanoquinodimethane; 16422. SP305-8.
- Tetrathiafulvalene; Vaporization; Chemical ionization mass spectrometry; Mass spectrometry; Sulfur nitride; Tetracyanoquinodimethane; Tetrasulfur tetranitride; 16422. SP305-8.
- Tetrathiafulvalenium-tetracyanoquinodimethane; TTF-TCNQ; Electrical conductivity; Organic conductors; 16061. SP305-8.
- Tetrathiafulvalinium-tetracyanoquinodimethane (TTF-TCNQ); Charge transfer salts; Electronic energy band structure; Electron-phonon coupling; One dimension; Peierls transition; 14359. SP305-6.
- Tetrathiafulvalinium-tetracyanoquinodimethane; TTF-TCNQ; Eddy currents; Electron paramagnetic resonance; Microwave conductivity; 15917. SP305-8.
- Tetravalent iron; Ferrates; Hexagonal barium ferrate; Perovskite; Phase equilibria; *J.73A No. 4, 425-430 (1969)*. SP305-1.
- Tetravalent manganese; Trivalent manganese; Four-layer  $\text{SrMnO}_3$ ; Perovskites; Phase equilibria; Strontium manganese; 11764. SP305-2.
- Text; Assembly; Conversational; Editor; Language; Minicomputer; 13352. SP305-5.
- Text; Text processing; Bibliographic system; Computer package; Data base; Document processing; Information retrieval; Document storage and retrieval; *TN599. SP305-3*.
- Text automation; Computer-assisted printing; Computer input; Electronic typesetting; Input techniques; Keyboarding conventions; Phototypesetting; 14672. SP305-6.
- Text editing; Character generation; Composition language; Computer technology; Computerized text processing; Electronic composition; Electronic computer; Electronic printing; GRACE; Linotron; MACRO coding; MEDLARS; Microfilm; Photocomposition; Photon; *SP295. SP305-1*.
- Text editing; Computer applications; OMNITAB II; Minicomputer; Statistical computing; *NBSIR 75-649. SP305-7*.
- Text handling; Chemistry; Codes for information interchange; Editing; Information analysis centers; Information processing; Information retrieval; 12745. SP305-4.
- Text processing; Bibliographic system; Computer package; Data base; Document processing; Information retrieval; Document storage and retrieval; *TN599. SP305-3*.
- Text processing; Bibliographic systems; Computer programs; Computer systems; Data base; Data management; Information retrieval; Information services; Interactive system; Query language; Software selection; *TN819. SP305-6*.
- Text-editing displays; Visual displays; Alphanumeric displays; ASCII code; Cathode-ray-tube displays; Control function; Display terminals; Interactive terminals; Remote computer terminals; Soft copy; 14466. SP305-6.
- Textile technology; Wearing apparel; Fabrics; Flammable fabrics; Act; Interior furnishings; National Advisory Committee; Textiles; 11104. SP305-2.
- Textile testing; Apparel materials; Equipment, textile testing; Fabric defects; Physical properties, fabrics; Programs, testing; Test methods, textile; Testing equipment, textile; 10843. SP305-1.
- Textile testing, apparel materials; Apparel industry; Equipment, textile testing; Industry, apparel; Performance, apparel materials; Properties, apparel; Quality control, apparel industry; Test methods, textile; Testing programs, apparel industry; 12435. SP305-4.
- Textile types; Vehicle movement; Carpet; Floor coverings; comfort; Performance requirements; Resilient types; methods; 11792. SP305-2.
- Textiles; Edges; Fabric construction; Fabric flammability; spread; Flame spread; Flame spread rate; Surfaces; *GCR-75-34. SP305-8*.
- Textiles; Fading standardization; Light-sensitive paper; Book of faded strips; Fading characteristics; *M260-15. SP305*.
- Textiles; Textile technology; Wearing apparel; Flammability; Flammable fabrics; Act; Interior furnishings; National Advisory Committee; 11104. SP305-2.
- Textiles; Thermal analysis; Calorimetry; Cellulose; Flammable gases; Nylon; Oxidation reactions; Oxygen in phosphorus; Polyester; Polymer substrates; Pyrolysis chromatography; *SP411, pp. 37-49. SP305-6*.
- Textiles; Upholstered furniture; Apparel; Carpets; Curdraperies; Fabrics; Flammability; Garments; Test methods; 15470. SP305-7.
- Textiles; Wash-and-wear textiles; Apparel, textile; Blends; Fabric care instructions, textiles; Consumer goods, textiles; Fabrics, textile; Fibers, textile; Flammability, textile; Glass, textile; Properties, textile fiber; *CISI. SP305-2*.
- Textiles; Wearing apparel; Carpets; Fabrics; Flammable fabrics; Act; National Advisory Committee; Procedures; Regulations; 11105. SP305-2.
- Textiles; Wearing apparel; Fabrics; Flammability; Flammable fabrics; Act; Rugs; 11443. SP305-2.
- Textiles, fading of; Carbon-arcs, standardization of; Color, testing of; Fading tests, standardization; Light-sensitive paper; Paper, light-sensitive; *SP260-41. SP305-4*.
- TFF-fluorocarbon; Coatings, dry film; Dry film lubricants; Polytetrafluoroethylene; Resin sintered coatings; *CS27. SP305*.
- TFF-fluorocarbon; Electrical tape, plastic; Plastic; Polytetrafluoroethylene; Resin skived tape; Skived tape; 66. SP305.
- TGA; Combustion; DTA;  $\gamma$ -irradiation; LOI; Polymers; 11745. SP305-6.

- Theory of isoperibol and adiabatic shield calorimeters; Neurosclerotic plaque; DSC; Elastomers and vulcanizates; Gels; High temperature DTA; Kinetics by TGA; Selection of DTA parameters; Temperature standards; *SP338*, 305-2.
- Thermal analysis; Accessibility; Arrhenius plots; Burned celluloses; Celluloses; Combustion; Crystallinity; Decomposition; DP; DTA; Flame-retardant;  $\text{KHC}\text{O}_3$ ; Kinetics; Moisture; Oxygen indexes; Pyrolysis; Reaction rates; Temperature; *SP329*, *SP305-5*.
- Thermal analysis; Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; Pyrolysis; *SP326*, *SP305-6*.
- Thermal analysis; Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; Pyrolysis; *SP338*, pp. 137-150. *SP305-2*.
- Thermal analysis; Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; Pyrolysis; *SP329*, *SP305-7*.
- Wavelengths; Zeeman-effect of Th I; Energy levels; Thorium; *J. Res.* 80A No. 2, 221-358 (1976). *SP305-8*.
- Thorium; Thorium spectra; Wavelengths of Th; Classified spectra of Th I and Th II; Fourier transform spectra of Th; Infrared spectra of Th; Spectra of Th; *J.78A No. 2*, 247-281 (1974). *SP305-6*.
- Spectrum; Thorium; Wavelengths of Th II; Energy levels of Th II; *g*-values of Th II; Spectrum of Th II; *J.78A No. 2*, 324-266 (1974). *SP305-6*.
- Thorium; Molecules; Radiation; *16094*. *SP305-8*.
- Thorium; Activation analysis; Bremsstrahlung; Determination; Mass; Photon activation analysis; *12465*. *SP305-4*.
- Thorium; Atomic beam; Frequency shift; Radiation field; Resonance; *TN346*. *SP305*.
- Thorium; Atomic energy levels; Atomic theory; Bismuth; Configuration interaction; Lead; Mercury; *13135*. *SP305-5*.
- Thorium; Thorium; Uranium; Isotope dilution; Lead; Mass spectrometry; Silicate glass standard materials; Standard reference materials; *13313*. *SP305-5*.
- Thorium; Tungsten; Wavelengths; Ytterbium; Bismuth; Gold; Hafnium; Ionization energies; Iridium; Lead; Lutetium; Mercury; Osmium; Platinum; Rhenium; Tantalum; *16420*. *SP305*.
- Thorium; X-ray diffraction; Alloys; Compounds; Intermetallic; Magnetic shift; Nuclear magnetic resonance; Sodium; *10280*. *SP305-1*.
- Thorium; Zinc; Atomic spectra; Cadmium; Copper; Energy levels; Energy parameters; Silver; *11390*. *SP305-2*.
- Thorium beam standards; Time; Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; Time scales; Unified standard; URSL; USA standard time zones; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; *Monogr.* 140. *SP305-6*.
- Thorium bromide; Donor-acceptor pairs; Excitons; *13008*. *SP305-4*.
- Thorium chloride; Very low temperatures; Barium titanate; Electric properties; Ferroelectrics; KDP; PZT 65/35; *5491*. *SP305-8*.
- Thorium ion; Ammonium chloride; Luminescence, optical absorption; Optical spectra; *13015*. *SP305-4*.
- Thorium standard; Cesium standard; Frequency standard; *568*. *SP305-1*.
- Thiourea azide; Thermal expansion; Bond method; Phase transition; *13904*. *SP305-6*.
- Thiourea chloride; Excitons; Liquid state; *13007*. *SP305-4*.
- Thiourea; TRIS; Tris(hydroxymethyl)aminomethane; Thermochemistry; Enthalpy of reaction; Heat of solution; Solution calorimetry; Standard reference material; *J.77A No. 5*, 581-97 (1973). *SP305-5*.
- Thiourea; Cryobiology; Cryomedicine; Cryopreservation; Cryoprotectants; Cryosurgery; Freezing; *11133*. *SP305-2*.
- Thawing; Thermal conductivity; Freezing rates; Solid hydrogen; *NBSIR 73-339*. *SP305-6*.
- Théorie analytique des probabilités*; William Chauvenet; Abraham De Moivre; Avogadro's number; Brownian motion; Chauvenet's criterion; Coast and Geodetic Survey; Corrado Gini; Emile Borel; Factorial moments; *11618*. *SP305-2*.
- The meter; Laser frequency measurements; Laser strainmeter; Saturated absorption spectroscopy; Speed of light; *15688*. *SP305-7*.
- Theft; Burglary; Consultants; Crimes of opportunity; Directory; (security); Investigations; Law enforcement; Resources; Security; Shoplifting; *16369*. *SP305-8*.
- Theorem; Asymptotics; Elastic; Oscillations; Pomeranchuk; Shrinkage; *16249*. *SP305-8*.
- Theorem-proving; Compiler; Computer network; Documentation; Dynamic software analysis; Interpreter; Quality control; Software testing; Software verification; Static software analysis; Structured programming; System errors; System performance; *TN800*. *SP305-6*.
- Theorem-proving; Unification; Associative processing; First-order predicate calculus; Resolution; Subsumption; *13760*. *SP305-5*.
- Theoretical; Atom; Electron; Excitation; Experimental; Helium; Hydrogen; Impact; Review; *10692*. *SP305-1*.
- Theoretical; Atom; Electron; Excitation; Experimental; Helium; Hydrogen; Impact; Review; *NSRDS-NBS25*. *SP305-1*.
- Theoretical; Collisions; Electron; Excitation; Hydrogen; Ionization; *15893*. *SP305-8*.
- Theoretical; Coulomb wave; Born approximation; Electron; Excitation; High energy; Hydrogen; Large angle; *12699*. *SP305-4*.
- Theoretical; Cross sections; Energy distributions; Photon; Tertiary; *SP425*, pp. 317-319. *SP305-7*.
- Theoretical; Double ionization; Franck-Condon principle;  $\text{H}_2$ ; Kinetic energy; Proton; Reflection approximation; *10676*. *SP305-1*.
- Theoretical; Third spectra; Configurations  $4d^9 + 4d^9 - 15s$ , energy levels; Interaction parameters; Palladium group; *J.70A5-415*, 435-445 (1966). *SP305*.
- Theoretical; Unimolecular dissociation; Activated complex; Activated molecules; Activated state; Decay; Dissociation; High pressure rate constant; Kinetics; Lifetime; Mass spectra; Metastable molecules; Predissociation; Quantum mechanics; *9366*. *SP305*.
- Theoretical and experimental; Thickening; Unit cell; Annealing; Comonomer inclusion; Copolymers; Lamella thickness; *13771*. *SP305-5*.
- Theoretical calculations; Diatomic molecules; Hund's coupling cases; Rotational levels; Rotational line intensities; *Monogr.* 115. *SP305-2*.
- Theoretical detection limits for activation analysis; CLSQ program for multicomponent decay; Solid state detectors; Electronic data handling; NBS reactor; NBS Linac; Cockcroft-Walton generator; Digital computers; Activation analysis; *TN404*. *SP305*.
- Theoretical dosimetry; Energy deposition spectra; Microdosimetry; Neutron interactions with tissue; Neutrons; Radiation quality; Secondary particle spectra; *16182*. *SP305-8*.
- Theoretical model; Thermal analysis; Thermodynamic properties; Differential scanning calorimetry (DSC); Electronic and thermal coupling; Instrumental limitations; Supercooling; *14824*. *SP305-7*.
- Theoretical model; Trapping; Charge carriers; Electrons; Gamma rays; Ge(Li) detectors; Germanium gamma-ray spectrometers; Holes; Lifetime; *12255*. *SP305-3*.
- Theoretical physics; Atomic physics; Classification; Levels; Lifetimes; Spectroscopy; *10766*. *SP305-1*.
- Theoretical physics; Nuclear physics; Photoneutron absorption cross sections; Spherical nuclei; *9214*. *SP305*.

- Theoretical physics; Thermally activated processes; Twinning; Conference; Continuum mechanics; Crystal physics, dislocations; Dislocations; Elasticity; Electron-dislocation interactions; Lattice defects; Phonon-dislocation interactions; Solid-state; *SP317. SP305-3.*
- Theoretical proton; Born approximation; Charge transfer; Coulomb wave; Ground state; High energy; Hydrogen; Rearrangement process; *12598. SP305-4.*
- Theoretical strength; Dislocation nucleation; Ductile vs. brittle; Fracture; *14468. SP305-6.*
- Theoretical study; Electron impact; Helium; Ionization; *14764. SP305-7.*
- Theories of color; Chromatic adaptation; Color; Colorblindness; Colorimetry; *9162. SP305.*
- Theories of electrolytic conductance; Conductances of HF, HCl, HBr, and HI; Electrolytic conductance; *NSRDS-NBS33. SP305-2.*
- Theories of hearing; Diplacusis; Hearing; Hearing loss; Masking; Physiology of hearing; Pitch perception; *10525. SP305-1.*
- Theory; Absorbed dose;  $\text{CaF}_2\text{:Mn}$ ;  $^{60}\text{Co}$  gamma radiation; Extended media; Interface; *13443. SP305-5.*
- Theory; Abstracts; Conference; Dislocations; Fundamental aspects; *J73A No. 5, 517-552 (1969). SP305-1.*
- Theory; Aeronomy; Atmosphere; Atmospheric; Structure; *11074. SP305-2.*
- Theory; Atom; Collisions; Electron; Low energy; Review; Scattering; *15883. SP305-8.*
- Theory; Carbon; Cavity; Fast neutron; Spectra; *13365. SP305-5.*
- Theory; Ceramics; Dielectric constant; Electronic polarization; Interfacial polarization; Lattice polarization; Orientation polarization; *12452. SP305-4.*
- Theory; Chemical applications; Instrumentation; Mössbauer spectrometry; Nuclear parameters; Recent advances; Tables; *16332. SP305-8.*
- Theory; Circular plates; Concentric loading; Design; Elasticity; Experiment; Maximum stresses; Symmetrical bending; Symmetrically distributed load; *J71C1-438, 1-10 (1967). SP305.*
- Theory; Comparison; Fast; Integral-measurements; Neutron; Nuclear-data; Spectra; Standard; *13343. SP305-5.*
- Theory; Computations; Cooling system; Cryogenics; Electric power transmission; Flow stability; Helium; Oscillations; Superconductors; *15809. SP305-8.*
- Theory; Corridor fire; Experiments; Flame spread; Floorcovering; Test method; *15617. SP305-7.*
- Theory; Corridors; Fire induced flow; Recirculating flow; Scale-model; Smoke movement; Stratified flow; *15630. SP305-7.*
- Theory; Coulomb-projected Born; Electron impact; Excitation; Helium; High energy; *12794. SP305-4.*
- Theory; Curved bar analysis; Elasticity; Force transducer;  $n$ -degree elliptical ring; Nonlinear programming; Optimization; Proving ring; Structural design; *J72C No. 2, 139-160 (1968). SP305-1.*
- Theory; Diffusion coefficient; Polymer; Solution; *9425. SP305.*
- Theory; Electron cyclotron frequency; Emission; Harmonic; Microwave; *10702. SP305-1.*
- Theory; Experiment; Neutrons; Nuclear; Photons; Photoneutron; Protons; Reactions; *13187. SP305-5.*
- Theory; Ferromagnetic transition metals; Field emission; Spin polarization; Strongly correlated metals; Surface density of states; *15090. SP305-7.*
- Theory; Hydrocarbons; Ion-molecule reactions; Photoionization; Radiolysis; Rate constants; *11853. SP305-3.*
- Theory; Lutetium; Spectra; *12770. SP305-4.*
- Theory; Thermodynamics; Bulk; Chain fold; Crystallization; Fluctuation; Growth; Heat of melting; Homogeneous nucleation; Kinetics; Lamella thickness; Melt; Melting point; Nucleation; Polymer; Solution; Surface free energy; *11329. SP305-2.*
- Theory; Thickness vibration; Vibrational modes; X-ray diffraction; Dynamical diffraction; Extinction; Kinematical diffraction; Piezoelectricity; *11361. SP305-2.*
- Theory; Third-order aberration; Electron lenses; Experiment; *12652. SP305-4.*
- Theory; Thulium; Energy levels; *12829. SP305-4.*
- Theory; Thulium; Energy levels; *12830. SP305-4.*
- Theory; Thulium;  $3d$  edges; Erbium; Photoabsorption; *13074. SP305-4.*
- Theory; Transducer; Calibration; Construction; Impact; In face; Piezoelectric polymer; Polymer; Pressure; Pressure transducer; *NBSIR 75-740. SP305-7.*
- Theory; Transport properties; Correlation; Equilibrium properties; Experimental data; Intermolecular potential function; *TN360. SP305.*
- Theory; Transport properties; Equilibrium properties; Experimental data; Intermolecular potential function; Simultaneous correlation; *11021. SP305-2.*
- Theory; Triatomic; Vibration-rotation; Bending vibration;  $L_2$  amplitude; Quasi-linear; *14357. SP305-6.*
- Theory; Tuning curves; Collisions; Gas laser; Line width; Power output; *11811. SP305-3.*
- Theory; Tuning curves; Collisions; Gas laser; Line width; Power output; *14327. SP305-6.*
- Theory; Unified classical path; Hydrogen lines; Line width; Stark broadening; *12222. SP305-3.*
- Theory; Vacancies; Vibrational states; Calculations; Electronic states, energies of formation; Energies of motion; Interstitial point defects; *M287. SP305.*
- Theory; Vacuum-ultraviolet; Atomic; Collisions; Continuous deexcitation; He;  $\text{He}_2$ ; Metastable; Radiative; Spectra; *92. SP305.*
- Theory; Valence electrons; X-ray Raman effect; Absorption; Charge correlation; Compton effect; Core electrons; Current correlation; Inelastic scattering; Solid; *12542. SP305-4.*
- Theory; Vanadium;  $V$  I; Zeeman effect; Configurations in  $(3d + 4s)^4 4p$  in  $V$  I; Configuration interaction; Energy levels of  $V$  I; *J74A No. 2, 141-156 (1970). SP305-2.*
- Theory; Vibrational levels; Cross sections;  $D_2^+$ ;  $H_2^+$ ; Photoassociation; *10742. SP305-1.*
- Theory; Wave field; Wave packet; X-ray diffraction; Atom; Placement; Distorted crystal; Energy flow; Finite beam; *11031. SP305-2.*
- Theory; Wind; Bridge; Design; Field data; Gust response; Model; Specifications; Structure; *SP444, pp. 1-1-1-20 (1976). SP305-8.*
- Theory; Xenon; Absolute; Cross section; Electron; General oscillator strengths; *11017. SP305-2.*
- Theory; X-ray diffraction; Absorption; Distortion; Lattice; Line broadening; Perfect crystal; Scattering amplitude; *10573. SP305-1.*
- Theory; X-ray diffraction; Anomalous transmission; Atomic placement; Debye-Waller factor; Distorted crystal; Laue or Photon Green's function; *10383. SP305-1.*
- Theory; X-ray diffraction; Atom; Bragg condition; Displacement; Distorted crystal; Electron overlap; Green's function; Lattice; Photon; *10384. SP305-1.*
- Theory; X-ray diffraction; Dynamical diffraction; Imperfect; Kinematical scattering; Piezoelectric vibration; Secondary extinction; *12073. SP305-3.*
- Theory; X-ray inelastic scattering; Differential cross section; Real metals; *J79A No. 2, 415-417 (1975). SP305-7.*
- Theory; Zeeman effect; Chromium; Configurations in  $C$  configurations  $(3d + 4s)^4 4p$  in  $Cr$  I; Configuration interaction;  $Cr$  I; *J74A No. 2, 157-179 (1970). SP305-2.*
- Theory and experiment; Fast neutron capture; Co, Ni, Cu, Nb, Ho, Ta, Au,  $^{238}\text{U}$ ; *SP425, pp. 901-904. SP305-7.*
- Theory of calorimetry; Thermal analysis; Heats of transition; Scanning calorimetry; *13333. SP305-5.*



ry of cement hardening; Time of set; Vane-shear apparatus; Cement; Cement mortar; Cement paste; Early strength; False set; Hardening of cement; Hydration; Shear resistance; *BSS28. SP305-2.*

ry of chromatography; Column materials; Detectors; Gas chromatography; *15926. SP305-8.*

ry of computation; Combinatorics; Dynamic programming; Optimization; Systems of distinct representatives; *J.74B No. 43-247 (1970). SP305-2.*

ry of diffusion; Vacancy diffusion; Computer simulation; Relation factor for diffusion; Diffusion; Matrix calculation; Monte Carlo calculation; *16073. SP305-8.*

ry of elasticity; Bulk modulus; Composite materials; Elastic constants; Filled polymers; Mechanical properties; Particulate composites; Shear modulus; *J.78A No. 3, 355-361 (74). SP305-6.*

ry of elasticity; Composite materials; Elastic constants; Filled polymers; Mechanical properties; Particulate composites; Shear modulus; *J.79A No. 2, 419-423 (1975). SP305-7.*

ry of free radical degradation; Computer calculation; Intramolecular transfer; Molecular weights; Polystyrene; Pyrolysis; *10120. SP305-1.*

ry of games; Equilibrium; Probability; *J.72B No. 2, 93-101 (68). SP305-1.*

ry of games; Inspection; Mathematical model; Regulation; Strategy; *J. Res. 80B No. 2, 189-236 (1976). SP305-8.*

ry of grinding; Abrasive; Ceramics; Diamond; Fracture; Grinding; Grinding forces; Grinding temperatures; Machining; Polishing; Residual stresses; Stock removal; Surface analysis; *SP348, pp. 5-35. SP305-4.*

ry of isoperibol and adiabatic shield calorimeters; Atherostrotic plaque; DSC; Elastomers and vulcanizates; Explosives; High temperature DTA; Kinetics by TGA; Selection of A parameters; Temperature standards; TGA; *SP338. SP305-2.*

ry of magnetic susceptibility;  $\text{Co}^{++}$  compounds; Crystal field; Magnetic susceptibility; *13747. SP305-5.*

ry of mass spectra; Unimolecular dissociation; Franck-Condon factors; *10597. SP305-1.*

ry of symmetric deformations of plates; Thickness-shear modes; Thickness-stretch modes; Variational equations; Frequency as wave numbers; Vibrations of square bars; Longitudinal modes; *10753. SP305-1.*

apeutic aerosols; Aerosol size measurements; Aerosol spectrometer; Aerosol sprays; Condensation on aerosol droplets; Evaporation of aerosol droplets; Laser light scattering by aerosols; *SP412, pp. 33-40. SP305-6.*

apeutic beam; Dose profiles; Electron dosimetry; Pencil beam; *SP456, pp. 313-326 (Nov. 1976). SP305-8.*

apy; Activation cross-section; Bone mineral; *in vivo* neutron-activation analysis; *SP425, pp. 520-526. SP305-7.*

apy; Dosimetry; Intercomparisons; Radiation; Supervoltage; *SP456, pp. 359-363 (Nov. 1976). SP305-8.*

apy; TLD; Dosimetry; Ion chamber; Patient; Precision; *SP456, pp. 343-350 (Nov. 1976). SP305-8.*

apy; Traceability; Diagnosis; Measurement accuracy; Medical facilities; Regulatory; *SP456, pp. 139-146 (Nov. 1976). SP305-8.*

apy departments; Thermoluminescence dosimeters; Uncertainty; Water phantom; Absorbed dose; Cobalt-60 gamma radiation; Computation check; Dose interpretation; Mailings; Results; *J. Res. 80A No. 4, 663-668 (1976). SP305-8.*

ermal; Ceramics; Chemical composition; Mechanical properties; Pressure; Properties; Standards; Standard Reference materials; Temperature; *12181. SP305-3.*

ermal; Conservation; Costs; Economics; Energy; *SP403, pp. 1-101 (June 1976). SP305-8.*

Thermal; Thermodynamics; Automobile; Break-even analysis; Conservation; Cooling; Economics; Energy; Environment; Fuel; Heating; Imports; Industry; Management; Manufacturing; Paper; Petroleum; Resources; Standards; Steel; *SP403. SP305-8.*

Thermal; Transient; Absorption; Acoustic; Adiabatic; Fluid; Heat-conducting; Inviscid; Isothermal; Kirchhoff-Langevin equation; Stability; Steady-state; *J.74B No. 2, 67-84 (1970). SP305-2.*

Thermal; Volume; Compressibility; Configuration; Entropy; Heat capacity; Holes; Polymer; Poly(vinyl acetate); Pressure; *16077. SP305-8.*

Thermal; Westcott; Cross section; Neutron; Resonance; Sodium-22; *SP425, pp. 792-794. SP305-7.*

Thermal; 8-hydroxyquinoline; Bis(8-hydroxy-5-quinolyl)methane; Coordination; Copper; Decomposition; Infrared spectrophotometry; Ligand; Mass spectrometry; Polymer; *11261. SP305-2.*

Thermal acceleration; Arrhenius rate theory; Dislocation dynamics; Statistical theory of dislocation; *SP317, pp. 1065-1076. SP305-3.*

Thermal activation; Ambient temperatures; Dislocation mechanisms; Fracture mechanics; Sapphire; Slow crack growth; *15122. SP305-7.*

Thermal activation; Arrhenius law; Mechanical properties; Precipitation hardening; *SP317, pp. 1077-1082. SP305-3.*

Thermal activation; Bordoni-peaks; Dislocation motion; Kink relaxation; Mechanical properties; *SP317, pp. 1137-1156. SP305-3.*

Thermal activation; Dislocations; Plasticity; *14246. SP305-6.*

Thermal analyses; Analyses of thermal apparatus; Differential scanning calorimetry; Evaluation of heats and temperatures of transition; Instrumental time constants; Interfacial thermal conductivity; *SP338, pp. 119-136. SP305-2.*

Thermal analyses; Thermodynamic laws; Equilibria; Freezing point equation; Ideal solution laws; *11471. SP305-2.*

Thermal analysis; Accessibility; Arrhenius plots; Burned celluloses; Celluloses; Combustion; Crystallinity; Decomposition; DP; DTA; Flame-retardant;  $\text{KHCO}_3$ ; Kinetics; Moisture; Oxygen indexes; Pyrolysis; Reaction rates; Temperature; TGA; *13129. SP305-5.*

Thermal analysis; Acidity; Aging; Alum sorption; Laboratory aging; Manifold; Paper records; Stability; Stability of cellulose; Stability of paper; *11789. SP305-2.*

Thermal analysis; Calorimetry; Cellulose; Flames; Flammable gases; Nylon; Oxidation reactions; Oxygen index; Phosphorus; Polyester; Polymer substrates; Pyrolysis-gas chromatography; Textiles; *SP411, pp. 37-49. SP305-6.*

Thermal analysis; Cooling curve temperature calibration; Differential scanning calorimetry; Evaluation of thermal apparatus; Temperature calibration; *13704. SP305-5.*

Thermal analysis;  $\text{CoO-O}_2$  system; Melting point depression; Nonstoichiometry in liquid  $\text{CoO}$ ; Solar furnace; *SP364, pp. 471-481. SP305-4.*

Thermal analysis; Dipole ordering; DTA; NMR; Order-disorder; Phase transition; *13009. SP305-4.*

Thermal analysis; DTA; International Confederation on Thermal Analysis; International cooperative testing; Standard Reference Materials NBS 758, 759, 760; Temperature scale; *SP260-40. SP305-4.*

Thermal analysis; Heats of transition; Scanning calorimetry; Theory of calorimetry; *13333. SP305-5.*

Thermal analysis; Thermal behavior; Transient heat flows; Building heat transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; Temperature predictions; *BSS45. SP305-5.*

Thermal analysis; Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; Pyrolysis; TGA; *13926. SP305-6.*

Thermal analysis; Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; Pyrolysis; TGA; *SP338*, pp. 137-150. **SP305-2.**

Thermal analysis; Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; Pyrolysis; TGA; *15292*. **SP305-7.**

Thermal analysis; Thermoanalytical calorimetry; Base line determination; Differential scanning calorimetry (DSC); Heats of transition; *13324*. **SP305-5.**

Thermal analysis; Thermodynamic properties; Branched polyethylene; Calorimetry; Glass transition; Heat capacity; Linear polyethylene; Polyethylene; *J77A No. 4*, 395-405 (1973). **SP305-5.**

Thermal analysis; Thermodynamic properties; DSC; Enthalpy; Glass transition; Heat capacity; *14324*. **SP305-6.**

Thermal analysis; Thermodynamic properties; Differential scanning calorimetry (DSC); Electronic and thermal coupling; Instrumental limitations; Supercooling; Theoretical model; *14824*. **SP305-7.**

Thermal analysis; Thermostat setback; Transient heat flows; Air leakage measurement; Building heat transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; Temperature predictions; *B557*. **SP305-7.**

Thermal analysis; Transient heat flows; Building heat transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; *15762*. **SP305-8.**

Thermal analysis; Wet chemistry; X-ray fluorescence; Activation analysis; Characterization; Chemical composition; Chromatographic analysis; Coulometry; Electron probe microanalysis; Ion-selective electrodes; Mass spectrometry; Polarography; Spectrochemical analysis; *15165*. **SP305-7.**

Thermal analysis; Zinc selenide window; Computer analysis; Laser induced stresses; Stress analysis; *SP462*, pp. 29-35 (Dec. 1976). **SP305-8.**

Thermal analysis DTA standards; Trace elements-glass standards; Bilirubin solvent extraction with  $\beta$ -isopropyltropolone; Clinical; Filter; Fluorimetric standards; Inert gas fusion; Lead-base alloys; Multi-element flame spectrometer; Spectrophotometric standards; Steels and metallo-organics; *TN544*. **SP305-2.**

Thermal behavior; Transient heat flows; Building heat transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; Temperature predictions; Thermal analysis; *B5545*. **SP305-5.**

Thermal boosts; High plutonium productivity; Moderation-jacket in blanket; *SP425*, pp. 422-425. **SP305-7.**

Thermal breakdown; Transistor reliability; Transistors; Circuit reliability; Diodes; Failure mechanisms; Failure modes; Review; Second breakdown; Semiconductor devices; *10230*. **SP305-1.**

Thermal breakdown; Transistors; Bibliography; Device reliability; Diodes; Failure mechanisms; Failure modes; Second breakdown; Semiconductor devices; *TN431*. **SP305.**

Thermal bridges; Thermal insulation; U-values of walls; Floors and panels; Moisture condensation; *TN710-7*. **SP305-5.**

Thermal building design; Thermal insulation; Thermal performance standards; Indoor thermal environment; Insulated construction; Insulation research; *9498*. **SP305.**

Thermal burn hazards; Burn hazards, household appliances; Fault-tree diagrams; Generic safety standards; Household appliances; Operations research; *NBSIR 76-1097*. **SP305-8.**

Thermal burns; Apparel fabrics; Fabrics; Fire hazard; Flammability testing; Ignition; *NBS-GCR-73-7*. **SP305-8.**

Thermal burns; Apparel fabrics; Fabrics; Fire hazard; Flammability testing; Simulation; Skin; *NBS-GCR-73-13*. **SP305-8.**

Thermal burns; Thermal measurements; Apparel fabrics; Fabrics; Fire hazards; Flammability testing; Ignition; Skin; *NBS-GCR-73-6*. **SP305-8.**

Thermal burns; Thermal measurements; Apparel fabrics; Fabrics; Fire hazard; Flammability testing; Skin; *NBS-GCR-73-9*. **SP305-8.**

Thermal burns; Thermal measurements; Apparel fabrics; Fabrics; Fire hazards; Flammability testing; Ignition; *NBS-GCR-73-12*. **SP305-8.**

Thermal capillary convection; Vacuum vaporization; Al Complex equilibria; Convective-diffusion; Evaporative Purification (evaporative); Solutal-capillary; *19233*. **SP305.**

Thermal capillary convection; Vacuum vaporization; Al Complex equilibria; Convective diffusion; Evaporative Purification (evaporative); Solutal-capillary; *15968*. **SP305.**

Thermal capture spectra; Valence capture in  $^{39}\text{Ar}$  and  $^{40}\text{Ar}$ ; *SP425*, pp. 795-798. **SP305-7.**

Thermal coefficient of refractive index;  $\text{As}_2\text{S}_3$ ; Chalcogenide glass; Coefficient of thermal expansion; Elastic constants; frared laser window materials; KCl; Photoelasticity; Polycrystalline ZnSe; Refractive index; *SP414*, pp. 141-142. **SP305-6.**

Thermal coefficient of refractive index;  $\text{As}_2\text{S}_3$ ; Chalcogenide glass; Coefficient of thermal expansion; Elastic constants; frared laser window materials; KCl; Photoelasticity; Polycrystalline ZnSe; Refractive index; Stress-optical constants; *NBSIR 74-525*. **SP305-6.**

Thermal coefficient of refractive index; Coefficient of thermal expansion; Elastic constants; Infrared laser window materials; Photoelasticity; Polycrystalline ZnSe; Refractive index; Stress-optical constants; *NBSIR 75-639*. **SP305-7.**

Thermal coefficient of refractive index; ZnSe; Birefringence; Elastic constants; Infrared-laser window materials; Interferometry; KCl; Photoelasticity; Polycrystalline ZnSe; Relative index; Stress-optical constants; *NBSIR 75-781*. **SP305.**

Thermal coefficient of refractive index; Thermal expansion coefficient; ZnSe;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ; Fused silica; Interferometry; Photoelasticity; Piezo-optic constants; *SP462*, pp. 51-52 (Dec. 1976). **SP305-8.**

Thermal coefficient of refractive index; Birefringence; Elastooptic constants; Infrared-laser window materials; Interferometry; KCl; Photoelasticity; Piezo-optic constants; Refractive index; Stress-optical constants; *NBSIR 76-115*. **SP305-8.**

Thermal coefficient of refractive index; Thermal expansion coefficient; ZnSe;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ; Fused silica; Interferometry; Photoelasticity; Piezo-optic constants; Refractive index; *NBSIR 76-1115*. **SP305-8.**

Thermal coefficient of solubility; Beta-tricalcium phosphate preparation; Solubility, solubility product, stoichiometry; Dissolution, thermodynamics of; Ion pairs; Singular point; Solubility isotherms; *J78A No. 6*, 667-674 (1974). **SP305.**

Thermal comfort requirement; Curtains, effect of; Environmental conditions; Glazed openings; Human response; *TN710*. **SP305-4.**

Thermal comforts; Weights and measures; Building industry; Calibration system; Centigrade/celsius; Computer; Electrical industries; Environments; Glass standards; Government intervention; Heating/cooling; Lead-paint; Metric; *DIM/NBS No. 10*, 1-24 (1976). **SP305-8.**

Thermal conditions; Turnout coat; Comfort; Fire fighting; Impact protection; Injury statistics; Protective clothing; *14621*. **SP305-6.**

Thermal conductance; Thermal conductivity; Conductivity; Heat transfer; Nuclear safety; Soils; Temperature; *10944*. **SP305-2.**

Thermal conductance; Thermal conductivity; Conductivity; Heat transfer; Nuclear safety; Soils; Temperature; *11305*. **SP305-2.**

Thermal conductance of contacts;  $^3\text{He}$  cryostat; Low temperature; Low temperature calorimetry; Mechanical heat switches; Pressed contacts; *11270*. **SP305-2.**

Thermal conduction; Absorption coefficients; Barothermal gas  
 pressure; Gas pressure; Highly transparent solids; 15914. SP305-  
 4.

Thermal conduction; Thermal transport; Transport coefficient;  
 Wave transmission in random media; Harmonic crystal; Heat  
 transport; Isotopic disorder; Kapitza resistance; Scattering  
 theory in one-dimension; Statistical mechanics; 12808.  
 SP305-4.

Thermal conduction; Thermal vacuum tests; Volatile con-  
 stants; Volatilization; Absorption; Adsorption; "bake out";  
 Components; Decomposition; Degassing; Environment;  
 Evaporation; Outgassing; Simulation; Sublimation; SP336, pp.  
 448-485. SP305-3.

Thermal conductivities; Thermodynamic functions; Viscosities;  
 Electric constants; Methane, specific heats; 13049. SP305-  
 4.

Thermal conductivity; Aluminum; Copper; Heat transfer; Kapit-  
 za conductance; Niobium; Superfluid helium; 13569. SP305-  
 4.

Thermal conductivity; Aluminum; Impurity; Resistivity; Skin ef-  
 fect; 10821. SP305-1.

Thermal conductivity; Aluminum alloys; Composites; Cryogenic  
 temperatures; Elastic properties; Engineering materials;  
 Fracture; Fracture; Iron alloys; Mechanical properties; Nickel  
 alloys; Superconducting machinery; NBSIR 76-839. SP305-8.

Thermal conductivity; Ambient temperature index; Edge heat-  
 flux; Errors; Guarded-hot-plate apparatus; Line-heat-source;  
 1084. SP305-8.

Thermal conductivity; Analytic solutions; Boundary conditions;  
 Computation, temperature distribution; Furnaces, high-pres-  
 sure. High-pressure furnaces; High-temperature, high-pres-  
 sure research; Power dissipation; J.75C No. 2, 79-83 (1971).  
 SP305-3.

Thermal conductivity; Aramid fiber; Composites; Cryogenic;  
 epoxy; Glass fiber; 15021. SP305-7.

Thermal conductivity; Armo iron; Conductivity; Electrical  
 conductivity; Electrical resistivity; Heat conductivity; Heat  
 transfer; Iron; Lorenz function; Resistivity; J.71C4-259, 285-  
 311 (1967). SP305.

Thermal conductivity; Austenitic stainless steel; Electrical re-  
 sistivity; High temperature; Low temperature; Standard  
 reference materials; SP260-46. SP305-7.

Thermal conductivity; Austenitic steel; Cryogenics; Electrical  
 resistivity; Electrolytic iron; Lorenz ratio; 16206. SP305-8.

Thermal conductivity; Austenitic stainless steel; Electrical re-  
 sistivity; High temperature; Low temperature; Standard  
 reference materials; 16494. SP305-8.

Thermal conductivity; Beryllium copper; Conductivity; Copper  
 alloys; Electrical conductivity; Heat conductivity; Lorenz  
 function; Resistivity; 10720. SP305-1.

Thermal conductivity; Capacitance method; Critical density;  
 Experimental measurement; Helium gas; Parallel plate  
 method; 10705. SP305-1.

Thermal conductivity; Composite; Cryogenics; Superconducting  
 alloys; 15031. SP305-7.

Thermal conductivity; Composites; Copper alloys; Cryogenic  
 temperatures; Elastic properties; Engineering materials;  
 Fracture; Fracture; Iron alloys; Mechanical properties; Nickel  
 alloys; Superconducting machinery; NBSIR 75-828. SP305-8.

Thermal conductivity; Composites; Elastic properties; Fracture;  
 Liquid helium; Mechanical properties; Structural materials;  
 Superconducting machinery; NBSIR 74-393. SP305-7.

Thermal conductivity; Composites; Elastic properties; Fracture;  
 Liquid helium; Mechanical properties; Structural materials;  
 Superconducting machinery; NBSIR 75-810. SP305-7.

Thermal conductivity; Composites; Fracture; Liquid helium;  
 Mechanical properties; Structural materials; Superconducting  
 machinery; NBSIR 74-359. SP305-6.

Thermal conductivity; Computer; Cryogenic; Cryptography;  
 Data; Energy labeling; Energy needs; Fluid safety; Materials;  
 NBS, GSA experiment; Optical spectra; Plastic pipes;  
 DIM/NBS 59, No. 9, 193-216 (1975). SP305-7.

Thermal conductivity; Conductance; Conductivity; Heat  
 transfer; Nuclear safety; Soils; Temperature; Thermal con-  
 ductance; 10944. SP305-2.

Thermal conductivity; Conductivity; Electrical conductivity;  
 Electrical resistivity; Heat conductivity; Lorenz function;  
 Platinum; Reference material; Resistivity; Standard; J.71C4-  
 258, 255-284 (1967). SP305.

Thermal conductivity; Conductivity; Electrical conductivity;  
 Electrical resistivity; Heat conductivity; Lorenz function;  
 Platinum; Reference material; Resistivity; Standard; 10549.  
 SP305-1.

Thermal conductivity; Conductivity; Heat conductivity; Heat-  
 resistant alloys; Heat transfer; Stainless steel; Temperature-  
 resistant alloys; 10721. SP305-1.

Thermal conductivity; Conductivity; Electrical conductivity;  
 Electrical resistivity; Heat conductivity; Lorenz function;  
 Platinum; Reference material; Resistivity; Standard; 11304.  
 SP305-2.

Thermal conductivity; Conductance; Conductivity; Heat  
 transfer; Nuclear safety; Soils; Temperature; Thermal con-  
 ductance; 11305. SP305-2.

Thermal conductivity; Conductivity; Electrical; Heat conduc-  
 tivity; Heat transfer; Lorenz function; 15986. SP305-8.

Thermal conductivity; Conductivity; 16169. SP305-8.

Thermal conductivity; Copper-base alloy properties; Electrical  
 resistivity; Smith-Palmer equation; NBSIR 76-1003. SP305-8.

Thermal conductivity; Correlation length; Critical point; Gas-  
 liquid; Non-spherical molecules; Ornstein-Zernike theory;  
 16484. SP305-8.

Thermal conductivity; Corresponding-states principle correla-  
 tion; Cryogenic liquids and liquid mixtures; Mutual-diffusiv-  
 ity; Self-diffusivity; 10416. SP305-1.

Thermal conductivity; Critical evaluation; Gases; Graphites;  
 Metallic elements; Metals; Recommended values; Standard  
 reference data; NSRDS-NBS16, Part 2. SP305-1.

Thermal conductivity; Critical evaluation of data; Gases;  
 14369. SP305-6.

Thermal conductivity; Critical region; Normal hydrogen;  
 Parahydrogen; 11827. SP305-3.

Thermal conductivity; Critical region; Parahydrogen; 11734.  
 SP305-2.

Thermal conductivity; Cryogenic thermal conductivity; Ele-  
 ments, alloys, commercial metals, semiconductors,  
 semimetals, ionic and valence crystals, mine salts, molecular  
 crystals, polymers, glasses, disordered dielectrics, thermal  
 conductivity of; Review; Monogr. 131. SP305-5.

Thermal conductivity; Cryogenics; Dielectric constant; Loss  
 tangent; Machinable glass-ceramic; Specific heat; 15046.  
 SP305-7.

Thermal conductivity; Cryogenics; Electrical resistivity; Stain-  
 less steel; Standard Reference Material; SP260-35. SP305-4.

Thermal conductivity; Dislocation mobility; Dislocation-phonon  
 interactions; Nonlinear elasticity; Phonons; SP317, pp. 363-  
 389. SP305-3.

Thermal conductivity; Electrical conductivity; Graphite;  
 Neutron irradiation damage; 12550. SP305-4.

Thermal conductivity; Freezing rates; Solid hydrogen; Thawing;  
 NBSIR 73-339. SP305-6.

Thermal conductivity; Gases; Liquids; Metals; Solids; NSRDS-  
 NBS8. SP305.

Thermal conductivity; Heat conduction; Heat generation; Heat  
 transfer; Neutron absorption; Radioactive decay; J.71C4-260,  
 293-298 (1967). SP305.

Thermal conductivity; Instrument; Solid argon; Solid deuterium;  
 Solidified gases; Solid methane; 12523. SP305-4.

- Thermal conductivity; Thermal contact; Window holder; Cryostat; Deposit; 10290. SP305-1.
- Thermal conductivity; Thermal contact; Cryogenics; Electrical leads; Low temperature; 13902. SP305-6.
- Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; TN631. SP305-5.
- Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Hydrogen; Index of refraction; Joule-Thomson; Latent heat; TN617. SP305-4.
- Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; TN622. SP305-4.
- Thermal conductivity; Thermal diffusion; Viscosity; Carbon dioxide; Diffusion; Dispersion coefficients; Methane; *m*-6-8 potential; Nitrogen; Oxygen; Rare gases; 12862. SP305-4.
- Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; TN384. SP305-3.
- Thermal conductivity; Thermal diffusion; Transport properties; Viscosity; Collision integrals; Diffusion; Potential; *J.72A No. 4*, 359-424 (1968). SP305-1.
- Thermal conductivity; Thermal diffusivity; Thermal resistivity; Thermophysical properties; Conductance; Conductivity; Contact conductance; Contact resistance; Electrical conductivity; Electrical resistivity; Heat transfer; Lorenz function; Resistivity; SP302. SP305-1.
- Thermal conductivity; Thermal diffusivity; Thermophysical properties; Transient techniques; Transport properties; Heat transfer; 14251. SP305-6.
- Thermal conductivity; Thermal diffusion; Transport properties; Viscosity; Collision integrals; Diffusion; Potential; NSRDS-NBS47. SP305-6.
- Thermal conductivity; Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; Nitrogen; TN648. SP305-6.
- Thermal conductivity; Thermal diffusivity; Cryogenic insulation; Powders; 15177. SP305-7.
- Thermal conductivity; Thermal conductivity coefficient; Viscosity coefficient; Correlation; Critical point; Equation of state; Methane; 15184. SP305-7.
- Thermal conductivity; Thermal diffusivity; Thermal properties; Transient techniques; Heat capacity; High pressures; 15709. SP305-8.
- Thermal conductivity; Thermal contraction; Boron; Cryogenics; Glass; Graphite; Literature review; PRD-49; Reinforced aluminum; Reinforced plastics; Structural composites; Tensile moduli; Tensile strength; 15745. SP305-8.
- Thermal conductivity; Thermal expansion; Thermal radiation; Viscoelasticity; Ceramics; Elasticity; Fracture; Inelastic deformation; Melting point; Standards; SP303. SP305-1.
- Thermal conductivity; Thermal gradient; Thermal flux; Turbulence; Two-fluid hydrodynamics; Vorticity; Helium II, superfluid; 11718. SP305-2.
- Thermal conductivity; Thermal insulation; Conduction; Energy conservation; Heat transfer; Insulation; 15756. SP305-8.
- Thermal conductivity; Thermal diffusivity; Thermo-elastic coupling; Continuum theory of diffusion; Density; Kinetic temperature; Molecular dynamics; Numerical error; Perfect lattice; 16281. SP305-8.
- Thermal conductivity; Thermal resistance; Alloys; Cryogenics; Electrical resistivity; Electron conductivity; Lorenz ratio; Low temperature research; Metals; 12538. SP305-4.
- Thermal conductivity; Thermoelectric power; Transition metal transport properties; Tungsten (W); Chromium; Electrical density of states; Iridium; Low-temperature specific heat; Magnetic susceptibility; Molybdenum; Niobium; SP323, 685-690. SP305-4.
- Thermal conductivity; Thermo-optic properties; Transmittance; Chemical composition; Density; Glasses; Hardness; Latent heat; Optical homogeneity; Photoelasticity; Refractive index; *J. Opt. Soc. 3*, 163-174 (1971). SP305-3.
- Thermal conductivity; Thermophysical properties; Transport properties; Glass transition; Heat transfer; Hevea rubber; 14591. SP305-6.
- Thermal conductivity; Thermopower; Titanium alloy; Aluminum alloy; Electrical resistivity; Lorenz ratio; Nickel alloy; 11336. SP305-2.
- Thermal conductivity; Thermopower; Electrical resistivity; Electrolytic iron; High temperature; Iron; Lorenz ratio; Low temperature; Standard reference material; SP260-50. SP305-7.
- Thermal conductivity; Thermopower; Tungsten; Electrical resistivity; High temperature; Lorenz ratio; Low temperature; Standard reference materials; SP260-52. SP305-7.
- Thermal conductivity; Titanium alloy; Transport properties; Aluminum alloy; Cryogenics; Electrical resistivity; Lorenz ratio; Nickel alloys; Seebeck effect; *J.75A No. 4*, 269 (1971). SP305-3.
- Thermal conductivity; Titanium alloys; Aluminum alloys; Composites; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloys; Cryogenic temperatures; Maraging steels; Mechanical properties; Nickel alloys; Phenolphthalein; Stainless steels; NBSIR 76-848. SP305-8.
- Thermal conductivity; Transport coefficients; Triple collision; Viscosity; Dense gases; Rigid disks; Rigid spheres; 9. SP305.
- Thermal conductivity; Transport first density corrections; Transport property; Modified Enskog theory; Prediction of transport data; 13234. SP305-5.
- Thermal conductivity; Transport properties; Viscosity; Binary liquids; Critical phenomena; Dense gases; Phase transition; 13134. SP305-5.
- Thermal conductivity; Transport properties; Carbon dioxide; Critical phenomena; Steam; 13460. SP305-5.
- Thermal conductivity; Transport properties; Cryogenics; Electrical resistivity; Iron; Lorenz ratio; Seebeck effect; 12. SP305-4.
- Thermal conductivity; Transport properties; Disordered systems; Dimensional crystal; Multiple scattering; Statistical physics; 12376. SP305-3.
- Thermal conductivity; Transport properties; Cryogenics; Electrical resistivity; Electrolytic iron; Lorenz ratio; Seebeck effect; SP260-31. SP305-3.
- Thermal conductivity; Transport properties; Viscosity; Dependence; Liquid state; Simple fluids; Temperature dependence; 11879. SP305-3.
- Thermal conductivity; Transport properties; Triple collision; Viscosity; Dense gases; Rigid spheres; 9400. SP305.
- Thermal conductivity; Transport properties; Triple collision; Viscosity; Dense gases; Diffusion; Rigid disks; Rigid spheres; 10709. SP305-1.
- Thermal conductivity; Transport properties; Conductivity; Calculated data; Data compilation; Elements; Reference data; *J. Phys. Chem. Ref. Data* 1, No. 2, 279-421 (1972). SP305-6.
- Thermal conductivity; Transport properties; Tungsten; Cryogenics; Electrical resistivity; Lorenz ratio; Seebeck effect; Standard reference material; NBSIR 73-351. SP305-



- Thermal conductivity; Transport properties; Cryogenics; Electrical resistivity; Equipment; Error analysis; Iron; Lorenz ratio; Seebeck effect; *J74A No. 5, 673-690 (1970)*. **SP305-2.**
- Thermal conductivity; Transport properties; Viscosity; Compressed gases; *11119*. **SP305-2.**
- Thermal conductivity; Transport properties; Viscosity; Argon; Parker-Henderson perturbation theory; Modified Enskog theory; *14775*. **SP305-7.**
- Thermal conductivity; Vacuum effect; Ablation material; *836*, pp. 197-208. **SP305-3.**
- Thermal conductivity; Van der Waals gas; Volume viscosity; Critical phenomena; Fluctuation and time correlation function; Heat capacity; Shear viscosity; *10696*. **SP305-1.**
- Thermal conductivity; Velocity of sound; Viscosity; Computer programs; Density; Enthalpy; Entropy; Heat capacity at constant pressure; Heat capacity at constant volume; Heat capacity ratio; Heat transfer coefficient; Hydrogen; Pressure; *625*. **SP305-5.**
- Thermal conductivity; Alloys; Compilation; Cryogenic; Electrical resistivity; Lorenz ratio; Metals; *TN634*. **SP305-5.**
- Thermal conductivity; Viscosity; Absorption; Acoustic propagation; Fluids; Kirchhoff-Langevin; Navier-Stokes; Stability; *594*. **SP305-2.**
- Thermal conductivity; Viscosity; Corresponding states; Enskog theory; Helium-four; Kinetic theory; Quantum fluid; *10971*. **SP305-2.**
- Thermal conductivity; Viscosity; Correlation; Density dependence; Kinetic theory; Least squares analysis; Logarithmic expansion; *10972*. **SP305-2.**
- Thermal conductivity; Viscosity; Critically evaluated data; Argon; Kinetic theory; Modified Enskog theory; *J. Phys. Chem. Ref. Data 1*, No. 4, 1101-1114 (1972). **SP305-6.**
- Thermal conductivity; Viscosity; Dissociation; Hydrogen; Intermolecular potential functions; Kinetic theory; Quantum gas; *4A No. 3, 331-353 (1970)*. **SP305-2.**
- Thermal conductivity coefficient; Thermal diffusion factor; Viscosity coefficient; Critically evaluated data; Dilute diatomic gas; Kinetic theory of polyatomic molecules;  $m-3$  potential; Nitrogen; *J. Phys. Chem. Ref. Data 2*, No. 4, 5-756 (1973). **SP305-6.**
- Thermal conductivity coefficient; Transport property; Viscosity coefficient; Xenon; Argon; Correlation; Critical data evaluation; Critical point; Dense gas and liquid; Excess transport property functions; Krypton; *J. Phys. Chem. Ref. Data 3*, No. 979-1018 (1974). **SP305-6.**
- Thermal conductivity coefficient; Viscosity coefficient; Dilute gas; Kinetic theory;  $m-6-8$  potential function; Rare gases; *J. Phys. Chem. Ref. Data 2*, No. 3, 619-642 (1973). **SP305-6.**
- Thermal conductivity coefficient; Viscosity coefficient; Correlation; Critical point; Equation of state; Methane; Thermal conductivity; *15184*. **SP305-7.**
- Thermal conductivity of Ar; Thermal conductivity of He; Thermal conductivity of  $N_2$ ; Excess thermal conductivity of  $N_2$ ; *79A No. 2, 407-413 (1975)*. **SP305-7.**
- Thermal conductivity of He; Thermal conductivity of  $N_2$ ; Excess thermal conductivity of  $N_2$ ; Thermal conductivity of Ar; *79A No. 2, 407-413 (1975)*. **SP305-7.**
- Thermal conductivity of  $N_2$ ; Excess thermal conductivity of  $N_2$ ; Thermal conductivity of Ar; Thermal conductivity of He; *79A No. 2, 407-413 (1975)*. **SP305-7.**
- Thermal constraints; Constrained refinement; Least-squares refinement; Molecular crystal structures; Molecular libration; Rigid-bodies; *13221*. **SP305-5.**
- Thermal contact; Cryogenics; Electrical leads; Low temperature; Thermal conductivity; *13902*. **SP305-6.**
- Thermal contact; Cryogenics; Equipment design; Heat transmission; *11816*. **SP305-3.**
- Thermal contact; Window holder; Cryostat; Deposit; Thermal conductivity; *10290*. **SP305-1.**
- Thermal contraction; Boron; Cryogenics; Glass; Graphite; Literature review; PRD-49; Reinforced aluminum; Reinforced plastics; Structural composites; Tensile modulus; Tensile strength; Thermal conductivity; *15745*. **SP305-8.**
- Thermal control; High vacuum; Solar cells; Space radiation; Space simulation; *SP336*, pp. 935-947. **SP305-3.**
- Thermal control; 1-butene; 2-butene; Concurrent reactions; Consecutive reactions; Controlled oxidation; Conventional additive experiments; Cool-flames; Intermediate products; Isobutane; Isotopic tracer techniques; *SP357*, pp. 111-117. **SP305-4.**
- Thermal control coatings; Degradation mechanising; Electron bombardment; Electron degradation; Polymeric perfluorinated ethylene-propylene; Proton bombardment; *SP336*, pp. 359-382. **SP305-3.**
- Thermal control coatings; Ultraviolet degradation; Vacuum UV; Alzak; *SP336*, pp. 383-392. **SP305-3.**
- Thermal control coatings; Ultraviolet degradation; Alkaline paint; Conduction of paints during ultraviolet exposure; Electrode potential of paints; Photo degradation; *SP336*, pp. 373-402. **SP305-3.**
- Thermal convection; Crystal growth; Fused salts; Magnetic fields; Molten metals; Solute distribution; *9513*. **SP305.**
- Thermal convection; Thermal wave; Tin; Turbulence; Interface; Kinetics; *10798*. **SP305-1.**
- Thermal convection; Ventilation; Air infiltration and extraction, airtightness; Discomfort index; Duct system, collective and individual branch; Flow rates; Noise; Pressure-loss-depression; *TN710-3*. **SP305-4.**
- Thermal convection; X-ray topography; Copper single crystals; Crystal perfection; Dislocations; Fluid flow; *13944*. **SP305-6.**
- Thermal convectors; Thermoelements; Transfer standards; Voltage comparator; Voltage measurements; Audio-frequency; Comparator; Standards; *9782*. **SP305-1.**
- Thermal converters; Transfer standards; Ac-dc transfer standards; Alternating current and voltage; *9783*. **SP305-1.**
- Thermal cross section; Nickel-59; Resonance integral; Resonance parameters; *SP425*, pp. 776-779. **SP305-7.**
- Thermal cross sections; Bound level parameters; Spin assignments; *SP425*, pp. 357-359. **SP305-7.**
- Thermal cycle vacuum testing; Thermal shroud; Gaseous nitrogen heater; Gas stream blower; GN temperature conditioning; Solar array; Solar cell; *SP336*, pp. 669-682. **SP305-3.**
- Thermal cycling at low temperature; Thermometry; Germanium resistors; Germanium resistor reproducibility; Low temperature thermometry; Reproducibility of germanium resistors; *J70C4-235, 245-254 (1966)*. **SP305.**
- Thermal damage; Absorption limit; Extrinsic absorption; High-power laser window materials; Intrinsic absorption; Optical absorption mechanisms; *SP372*, pp. 165-171. **SP305-4.**
- Thermal damage; Dielectric particles; Inclusions; Laser damage; *SP387*, pp. 208-216. **SP305-5.**
- Thermal decomposition; Alcohols; Chemical activation; Nonequilibrium; Oxygen atoms; RRM; *15881*. **SP305-8.**
- Thermal decomposition; HCl; He-Ne laser; Poly(vinyl chloride); Pyrolysis; Smoke; *13650*. **SP305-5.**
- Thermal decomposition; Thermal volatilization; 1,2-dihydronaphthalene; Degradation; Polymerization; Pyrolysis; *9218*. **SP305.**
- Thermal decomposition; Thermodynamic functions; Carbonates; *NSRDS-NBS30*. **SP305-1.**
- Thermal decomposition; Thermodynamics; Inorganic oxyanions; *13850*. **SP305-6.**
- Thermal decomposition; Thermodynamic functions; Nitrates; Nitrates; *J. Phys. Chem. Ref. Data 1*, No. 3, 747-772 (1972). **SP305-6.**
- Thermal decomposition; Thermodynamic functions; Bromates; Bromites; Chlorates; Chlorites; Critically evaluated data;

- Iodates; Iodites; Perbromates; Perchlorates; Periodates; *J. Phys. Chem. Ref. Data* 3, No. 2, 481-526 (1974). **SP305-6.**
- Thermal decomposition; Thermogravimetry; Thermolysis; Stability of polymers; Degradation; Nonisothermal kinetics; Polymers; Pyrolysis; *J.70A6-422, 487-523 (1966).* **SP305.**
- Thermal decomposition; Volatilization; High pressure; Initiation rate; Poly-3,3,3-trifluoropropene; Pyrolysis; Random component; *10092.* **SP305-1.**
- Thermal decomposition; 1-butene; 1,5 hexadiene; 4-methylpentene-1; 4,4-dimethylpentene-1; Allyl radicals; Allylic resonance energy; Single pulse shock tube; T-butyl radicals; *10105.* **SP305-1.**
- Thermal decomposition; 1,1-difluoroethane; 1,1,1-trifluoroethane; Elimination; Fluoroethane; Kinetics; Single pulse shock tube; *14199.* **SP305-6.**
- Thermal decomposition; 2,2,3,3-trimethylpentane; Bond energy; Cyclohexyl radical; 3,4-dimethylhexane; Heats of formation; n-propyl radical; s-butyl radical; Shock tube; t-butyl radical; *12562.* **SP305-4.**
- Thermal decomposition; 2,3-dimethylbutanol-2; 3,3-dimethylbutanol-2; Alcohols; Heats of formation; Hydroxy-alkyl radicals; Shock tube; *15904.* **SP305-8.**
- Thermal degradation; Combustion; Flammability; Kinetics; Polymer burning; Pyrolysis; Rapid heating; Surface pyrolysis; Surface temperature measurement; *SP357*, pp. 185-192. **SP305-4.**
- Thermal degradation; Mixtures; Molecular weight distribution; Monodisperse poly- $\alpha$ -methylstyrene; *15543.* **SP305-7.**
- Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; Pyrolysis; TGA; Thermal analysis; *13926.* **SP305-6.**
- Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; Pyrolysis; TGA; Thermal analysis; *SP338*, pp. 137-150. **SP305-2.**
- Thermal degradation; Thermogravimetric analysis; Differential thermal analysis; DTA; Kinetics; Pyrolysis; TGA; Thermal analysis; *15292.* **SP305-7.**
- Thermal degradation; Toxic gases; Aircraft materials; Combustion products; Fire tests; Interior finish; Smoke; *10750.* **SP305-1.**
- Thermal diffusion; Transport properties; Viscosity; Collision integrals; Diffusion; Potential; Thermal conductivity; *J.72A No. 4, 359-424 (1968).* **SP305-1.**
- Thermal diffusion; Transport properties; Viscosity; Collision integrals; Diffusion; Potential; Thermal conductivity; *NSRDS-NBS47.* **SP305-6.**
- Thermal diffusion; Viscosity; Carbon dioxide; Diffusion; Dispersion coefficients; Methane; m-6-8 potential; Nitrogen; Oxygen; Rare gases; Thermal conductivity; *12862.* **SP305-4.**
- Thermal diffusion factor; Viscosity coefficient; Critically evaluated data; Dilute polyatomic gas; Kinetic theory of polyatomic molecules; m-6-8 potential; Nitrogen; Non-spherical interactions; Oxygen; *J. Phys. Chem. Ref. Data* 2, No. 4, 735-756 (1973). **SP305-6.**
- Thermal diffusivity; Brillouin scattering; Carbon dioxide-light scattering; Critical point; Density fluctuations in fluids; Landau-Placzek intensity ratio; Negative dispersion; Non-local hydrodynamics; *9959.* **SP305-1.**
- Thermal diffusivity; Cadmium telluride; Gallium arsenide; Germanium; Laser flash method; Laser windows; *SP435*, pp. 98-106 (Apr. 1976). **SP305-8.**
- Thermal diffusivity; Cryogenic insulation; Powders; Thermal conductivity; *15177.* **SP305-7.**
- Thermal diffusivity; Thermal equilibrium; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Molecular dynamics; Second sound; Stress pulse; Temperature wave; *16589.* **SP305-8.**
- Thermal diffusivity; Thermal properties; Transient techniques; Heat capacity; High pressures; Thermal conductivity; *15709.* **SP305-8.**
- Thermal diffusivity; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Molecular dynamics; Second sound; Stress pulse; Shock wave; Stress wave; Temperature wave; *16138.* **SP305-8.**
- Thermal diffusivity; Thermal resistivity; Thermophysical properties; Conductance; Conductivity; Contact conductance; Contact resistance; Electrical conductivity; Electrical resistivity; Heat transfer; Lorenz function; Resistivity; Temperature; *SP302.* **SP305-1.**
- Thermal diffusivity; Thermal-wave; Cam; Equation; Generate; Sine wave; *10799.* **SP305-1.**
- Thermal diffusivity; Thermodynamic properties; Annealed or quenched glass; Calorimetry; cis-1,4-polyisoprene; Glass transformation; Heat capacity; Natural rubber; Normal or supercooled liquid; Rubber, natural; *J.75A No. 2, 113-1 (1971).* **SP305-3.**
- Thermal diffusivity; Thermo-elastic coupling; Continuum theory of diffusion; Density; Kinetic temperature; Molecular dynamics; Numerical error; Perfect lattice; Thermal conductivity; *16281.* **SP305-8.**
- Thermal diffusivity; Thermophysical properties; Transient techniques; Transport properties; Heat transfer; Thermal conductivity; *14251.* **SP305-6.**
- Thermal diffusivity; Underground installations; Amplitude; Earth temperature; Earth temperature phase shift; *987.* **SP305-1.**
- Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; Lambda line; *TN6.* **SP305-5.**
- Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Hydrogen; Index of refraction; Joule-Thomson coefficient; Latent heat; Melting point; *TN617.* **SP305-4.**
- Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; Lambda line; *TN6.* **SP305-4.**
- Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; Prandtl number; *TN384.* **SP305-3.**
- Thermal diffusivity; Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; Nitrogen; Prandtl number; Specific heat; *TN648.* **SP305-6.**
- Thermal diffusivity of earth; Earth temperature; Least squares technique; *J.71C1-442, 43-50 (1967).* **SP305.**
- Thermal distortion; Birefringence; Laser windows; *SP414, 31-38.* **SP305-6.**
- Thermal distortion; Interferometry; Laser windows; Optical materials; *SP462*, pp. 36-44 (Dec. 1976). **SP305-8.**
- Thermal distortion; Laser windows and mirrors; Optical figure; Pulsed laser; *SP462*, pp. 11-24 (Dec. 1976). **SP305-8.**
- Thermal distortion; Thermal lensing; ZnSe; Far field intensity; Laser windows; *SP435*, pp. 142-147 (Apr. 1976). **SP305-8.**
- Thermal distortion; Windows; Infrared lasers; Interferometry; Stress birefringence; *SP435*, pp. 126-141 (Apr. 1976). **SP305-8.**
- Thermal effects; Tissue; Tumor; Ultrasonic; Velocity; Absorption; Attenuation; Brain; Neoplasm; TAST; *SP453*, pp. 1-163 (Oct. 1976). **SP305-8.**

Thermal efficiency; Benefit-cost analysis; Building economics; Building envelope; Economic analysis; Economic efficiency; Energy conservation; Engineering economics; Insulation; Life-cycle costs; Marginal analysis; *B5S64*. SP305-6.

Thermal efficiency; Buildings; Conservation; Energy; Energy losses; Measurement; Simulation; *14669*. SP305-6.

Thermal efficiency; Thermal energy system; Total energy system; Utility system performance; Waste heat recovery; Data acquisition system; Electrical power system; Energy conservation; Fuel utilization; *14216*. SP305-6.

Thermal emf; Thermocouples; Thermoelectric reference data; Thermometry; Calibration; Nickel-base alloys; Nickel-chromium alloys; Nickel-silicon alloys; Reference tables; Temperature measurements; *15518*. SP305-7.

Thermal emf; Transition metal oxides; Conductivity; Ferrites; Mobility; *11342*. SP305-2.

Thermal emf; W-3% Re and W-25% Re thermoelements; Evaporation; Exposure; Hydrogen and high vacuum environments; Metallographic examination; Stability; *11683*. SP305-2.

Thermal emf drift; Tungsten-rhenium alloys; Beryllium oxide; Refractory metals; Sheathed thermocouples; Tantalum; Temperature measurements; *15797*. SP305-8.

Thermal emf of elements; Thermocouple tables; Thermometry; Thermometry fixed points; Electrical resistivity; IPTS-68; Temperature scale; *13110*. SP305-5.

Thermal emf-temperature; Thermocouples; Tungsten-rhenium alloys; Beryllium oxide; Drift; Microstructure; *14094*. SP305-8.

Thermal emittance; Thermodynamics; Electrical resistivity; Graphite; Heat capacity; High-speed measurements; High temperature; *15108*. SP305-7.

Thermal energy; Helium ions; Ion-neutral; Ions; Helium; Reaction rates; *9707*. SP305-1.

Thermal energy; Vibrational energy; Ammonia; Mass spectrometry; Photoionization; Rate constants; *12999*. SP305-4.

Thermal energy system; Total energy system; Utility system performance; Waste heat recovery; Data acquisition system; Electrical power system; Energy conservation; Fuel utilization; Thermal efficiency; *14216*. SP305-6.

Thermal environment; ASHRAE Task Group Energy Requirements; Computer application; Heating/cooling load; Room temperature; *SP361*, Vol. 1, pp. 407-418. SP305-4.

Thermal environment; Coincident dry- and wet-bulb temperature; Fallout shelter ventilation; *9869*. SP305-1.

Thermal environment; Thermal neutrality; Air motion; Air temperature; Comfort; Mean radiant temperature; Performance; Relative humidity; *SP361*, Vol. 1, pp. 31-42. SP305-4.

Thermal environment; Ventilation requirements; Coincident summer weather characteristics; Fallout shelter; *9868*. SP305-1.

Thermal equilibrium; Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Molecular dynamics; Second sound; Stress pulse; Temperature wave; Thermal diffusivity; *16589*. SP305-8.

Thermal expansion; Alloys; Aluminum; Copper; Expansivity; Iron; Metals; Nickel; *10876*. SP305-2.

Thermal expansion; Alloys; Coefficients of thermal expansion; Compilation; Critical evaluation; Elements; *16005*. SP305-8.

Thermal expansion; Anisotropic crystal; Grüneisen's constant; Interferometer; Rutile; *J71A5-466*, 363-369 (1967). SP305.

Thermal expansion; Azides; *13208*. SP305-5.

Thermal expansion; Barium ferrite; Low temperature; *16196*. SP305-8.

Thermal expansion; Bond method; Phase transition; Thallous oxide; *13904*. SP305-6.

Thermal expansion; Borosilicate glass; Dilatometer calibration; Standard reference material; *14586*. SP305-6.

Thermal expansion; Components of error (within and between samples); Copper; Interferometer; Standard reference material; *12036*. SP305-3.

Thermal expansion; Compressibility; Density; Dilatometer; Pressure; Specific volume; Temperature; *12977*. SP305-4.

Thermal expansion; Controlled-gradient vacuum furnace; Elevated temperatures; Optical comparator; *J71C2-247*, 85-91 (1967). SP305.

Thermal expansion; Crystal equation of state; Frequency distribution; Grüneisen constant; Grüneisen equation of state; Quasi-harmonic approximation; *J77A No. 4*, 406-409 (1973). SP305-5.

Thermal expansion; Ferromagnetism; Hyperfine field; NMR; Nuclear interaction; Nuclear quadrupole resonance; *9219*. SP305.

Thermal expansion; Fused silica; Standard reference material; *13209*. SP305-5.

Thermal expansion; High-speed measurements; High temperature; Platinum; *12139*. SP305-3.

Thermal expansion; Interferometry; Light scattering; Oxide glasses; Polarizability; Pressure; Refractive index; Temperature coefficient of refractive index; *J77A No. 6*, 755-763 (1973). SP305-5.

Thermal expansion; Lead azide; *14086*. SP305-6.

Thermal expansion; Platinum; Standard reference materials; *12503*. SP305-4.

Thermal expansion; Thermal properties; Volume; Bulk modulus; Grüneisen; *n*-alkanes; Normal mode; Polyethylene; Quasi-harmonic specific heat; String of beads; *12305*. SP305-3.

Thermal expansion; Thermal radiation; Viscoelasticity; Ceramics; Elasticity; Fracture; Inelastic deformation; Melting point; Standards; Thermal conductivity; *SP303*. SP305-1.

Thermal expansion; Thermodynamics and expansions; Bulk modulus; Dislocations and thermodynamics; Entropy; Specific heat; *SP317*, pp. 1223-1225. SP305-3.

Thermal expansion; Thorium; Volume dependence of density-of-states; Aluminum (Al); Electronic density of states; Electronic specific heat; Gallium; Grüneisen parameter, electronic; Superconductivity; *SP323*, pp. 731-734. SP305-4.

Thermal expansion; Titanium alloys; Aluminum alloys; Copper-nickel alloys; Cryogenics; Specific heat; Stainless steel; *12784*. SP305-4.

Thermal expansion; TTF—TCNQ; D.c. conductivity; Microwave conductivity; Organic conductors; *16050*. SP305-8.

Thermal expansion; Tungsten; Standard Reference Materials; *13380*. SP305-5.

Thermal expansion; Two relaxation model; Viscosity; Activation energy; Annealing; Germania glass; Index of refraction; Relaxation times; *J72A No. 4*, 425-433 (1968). SP305-1.

Thermal expansion; Vermiculite concrete; Cellular concrete; Drying shrinkage; Foam concrete; Low density concrete; Perlite concrete; *12705*. SP305-4.

Thermal expansion; Volume relaxation, WLF; Dilatometer; Isothermal volume change; Polyethylene; Specific volume; Superposition; *13774*. SP305-5.

Thermal expansion; Waxes; Flow; Melting; *9969*. SP305-1.

Thermal expansion; Young's modulus; Composite; Low temperature; Poisson's ratio; Superconductor; *NBSIR 73-349*. SP305-6.

Thermal expansion; ZnSe; Chemical vapor deposited ZnSe; Elastic compliance; Elastic constants; Polycrystalline ZnSe; Refractive index; Stress-optic constants; Temperature coefficient of index; *15938*. SP305-8.

Thermal expansion; 3-methylpentane; Consolute point; Critical exponent  $\alpha$ ; Critical phenomena; Critical solution point; Density; Gravity effects; Mixture, binary; Mixture, liquid; Nitroethane; *15691*. SP305-7.

- Thermal expansion  $\text{AgNO}_3$ ; Unit cell dimensions  $\text{AgNO}_3$ ;  $\text{AgNO}_3$ ; Density  $\text{AgNO}_3$ ; Polymorphism  $\text{AgNO}_3$ ; 11044. SP305-2.
- Thermal expansion  $\text{AgNO}_3$ ; Unit cell dimensions  $\text{AgNO}_3$ ;  $\text{AgNO}_3$ ; Density  $\text{AgNO}_3$ ; Polymorphism  $\text{AgNO}_3$ ; 11750. SP305-2.
- Thermal expansion anisotropy; Fracture surface energy; Machining damage; Plastic deformation; Polycrystalline alumina; Strength; Surface features; 14037. SP305-6.
- Thermal expansion anisotropy; Strength; Surface stress; Grain size; Griffith equation; Petch equation; 13211. SP305-5.
- Thermal expansion casting technique; Wax, inlay casting; Castings, dental, accuracy; Castings, lost wax technique; Dental materials; Gold alloys, dental; High heat casting technique; Hygroscopic expansion; Investment, dental; SP354, pp. 61-66. SP305-4.
- Thermal expansion coefficient; Corresponding states; Lattice vibration spectrum; Solid argon; Solid krypton; Solid xenon; 9957. SP305-1.
- Thermal expansion coefficient;  $\text{ZnSe}$ ;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ; Fused silica; Interferometry; Photoelasticity; Piezo-optic constants; Thermal coefficient of refractive index; SP462, pp. 58-63 (Dec. 1976). SP305-8.
- Thermal expansion coefficient;  $\text{ZnSe}$ ;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ; Fused silica; Interferometry; Photoelasticity; Piezo-optic constants; Refractive index; Thermal coefficient of refractive index; NBSIR 76-1115. SP305-8.
- Thermal flux; Turbulence; Two-fluid hydrodynamics; Vorticity; Helium II, superfluid; Thermal conductivity; Thermal gradient; 11718. SP305-2.
- Thermal fracture; Two-photon absorption; Nonlinear index of refraction; Optical distortion; SP435, pp. 395-405 (Apr. 1976). SP305-8.
- Thermal fracture; Window materials; Infrared absorption; Infrared laser systems; SP372, pp. 172-175. SP305-4.
- Thermal free energy; Thermodynamics; Characteristic function (Planck); Chemical bonding energy; Double helix; Heat integrals; Molecular biology; 13729. SP305-5.
- Thermal functions; Thermodynamic properties of materials; Thermodynamics; Evaluated data; NSRDS-NBS37. SP305-3.
- Thermal functions;  $\text{UO}_2$ ; Entropy; Infrared spectrum; Matrix isolation; 12628. SP305-4.
- Thermal gradient; Thermal flux; Turbulence; Two-fluid hydrodynamics; Vorticity; Helium II, superfluid; Thermal conductivity; 11718. SP305-2.
- Thermal gradient; Thermocouple; Thermoelectric stability; Aging; Calibration change; Gradient; High temperature (700 to 2000 °C); Iridium; Iridium-rhodium alloy; Noble-metal thermocouple; Oxidation; Platinum; Platinum-rhodium alloy; Preferential oxidation; 16158. SP305-8.
- Thermal gradients; Absorbed dose; Calorimeter; Heat-loss compensation; J78A No. 5, 595-610 (1974). SP305-6.
- Thermal gradients; Zero shift; Pressure measurement errors; Pressure transducers; Response; Temperature; TN490. SP305-1.
- Thermal grounding; Transmission line; Cryostat; Laminate; Photocasting; 13278. SP305-5.
- Thermal hysteresis; Thermal resistance; Thermographic measurements; Transistor screening; Current constriction; DC current gain; Hot-spot screening; Methods of measurement; Power transistors; Reliability; 12474. SP305-4.
- Thermal hysteresis, transistors; Transistors, hot spot detection; Current gain, hot spot detection; Hot spots, current gain as indication of; Power transistors, screening; Screening for hot spots, transistors; 13219. SP305-5.
- Thermal impact; Thermal potential; Thermal safety; Contact burn; Heat conduction; Human tissue; 15050. SP305-7.
- Thermal impedance measurements; Thermal response measurements; Transistors (thermal measurements); Computer simulation (transient thermal); Current crowding (transistor); Power transistors; 14616. SP305-6.
- Thermal impedance measurements; Thermal response measurements; Transistors (thermal measurements); Computer simulation (transient thermal); Current crowding (transistor); Power transistors; 14963. SP305-7.
- Thermal inertia; ASTM Standard E119; Building construction; Charring; Combustion; Fire endurance; Fire test; Flame emissivity; Heat transfer; Pyrolysis; Radiant heat; NBS-GCR-50. SP305-8.
- Thermal inertia; Thermal injury; Thermal safety; Thermal tissue damage; Heat conduction; 14517. SP305-6.
- Thermal injury; Thermal safety; Thermal tissue damage; Heat conduction; Thermal inertia; 14517. SP305-6.
- Thermal inlay; Thermal partial denture; Alloy castings; Gold alloys; Hygroscopic inlay; 10410. SP305-1.
- Thermal instability; Base widening; Current crowding; Hot spots; Power transistors; Safe operating area; Second breakdown; 16451. SP305-8.
- Thermal instability; Transistors; Breakdown; Diodes; Reliability; Second breakdown; 10048. SP305-1.
- Thermal insulation; Conduction; Energy conservation; Heat transfer; Insulation; Thermal conductivity; 15756. SP305-8.
- Thermal insulation; Cryogenics; Conductivity; Diffusivity; Peders; 11358. SP305-2.
- Thermal insulation; Cryogenics; 12608. SP305-4.
- Thermal insulation; Flat roofs; Heat transfer; Moisture transfer; BSS37. SP305-3.
- Thermal insulation; Thermal performance standards; Index; Thermal environment; Insulated construction; Insulation research; Thermal building design; 9498. SP305.
- Thermal insulation; Thermal-vacuum chambers; Evacuation; Heat transmission; Infrared scanning; Mars environment simulation; Outgassing; SP336, pp. 725-748. SP305-3.
- Thermal insulation; Transfer standards; Calorimeters; Filament; Foam insulation; Insulation transfer-standard; Multilayer insulation; 13416. SP305-5.
- Thermal insulation; Transient heat transfer; Performance coefficients; 12471. SP305-4.
- Thermal insulation; U-values of walls; Floors and panels; Moisture condensation; Thermal bridges; TN710-7. SP305-8.
- Thermal ionization; Isotope dilution; Isotopes; Mass spectrometry; Molybdenum; Nickel; Normalization; Standard reference materials; 14904. SP305-7.
- Thermal ionization; Uranium; Isotopes; Precise analysis; 10048. SP305-1.
- Thermal lensing;  $\text{ZnSe}$ ; Far field intensity; Laser window; Thermal distortion; SP435, pp. 142-147 (Apr. 1976). SP305-8.
- Thermal measurements; Apparel fabrics; Fabrics; Fire hazard; Flammability testing; Ignition; Skin; Thermal burns; NBS-GCR-73-6. SP305-8.
- Thermal measurements; Apparel fabrics; Fabrics; Fire hazard; Flammability testing; Skin; Thermal burns; NBS-GCR-73. SP305-8.
- Thermal measurements; Apparel fabrics; Fabrics; Fire hazard; Flammability testing; Ignition; Thermal burns; NBS-GCR-72. SP305-8.
- Thermal measurements; Thermodynamic properties; Apparel fabric; Fabric; Fire hazard; Flammability testing; NBS-GCR-73-8. SP305-8.
- Thermal mechanical analysis (TMA); Thermal properties; Thermogravimetric analysis (TGA); Thermoplastic polychlorinated polyvinyl chloride; Hardness; Internal stress; Polyvinyl chloride; NBSIR 74-610. SP305-7.
- Thermal microbalance; X-ray diffraction; Cerium oxide; Microhydrodynamics; System  $\text{K}_2\text{O-ZrO}_2$ -cerium oxide; 16444. SP305-8.
- Thermal model; Angle of incidence; Polarization; Pulsed laser damage; SP435, pp. 41-48 (Apr. 1976). SP305-8.



mal motion; Crystal structure; Neutron diffraction;  $\text{PH}_4\text{Br}$ ; Rigid-body analysis; 12119. SP305-3.

mal motion; Crystal structure; Low temperature; Meta-stable compound; Neutron diffraction;  $\text{NH}_4\text{ClO}_4$ ; 15223. SP305-4.

mal motion; Crystal structure; Deuterium peroxide; Hydrogen bonds; Hydrogen peroxide; Neutron diffraction; Structure refinement; 15271. SP305-7.

mal motion;  $\text{TiN}_3$  structure; Ionic crystal;  $\text{KN}_3$  structure; Low temperature study; Monovalent metal azides;  $\text{NaN}_3$  structure; Neutron diffraction;  $\text{RbN}_3$  structure; 15973. SP305-8.

mal motion; Torsional oscillation; Constrained refinement; Ordered rotation; Hydrogen bonds; Hydroxylammonium; Neutron diffraction; Perchlorates; 14853. SP305-7.

mal motion; Water molecule; Bond angle; Diffraction; Fluoride; Hydrate; Hydrogen bond; Neutron diffraction; Structure refinement; 12819. SP305-4.

mal neutrality; Air motion; Air temperature; Comfort; Mean radiant temperature; Performance; Relative humidity; Thermal environment; SP361, Vol. 1, pp. 31-42. SP305-4.

mal neutron; Converter tube; Fast neutron; NSBR; Pile activity; Radiation effects; Radioactive; Research Reactor; 66. SP305-1.

mal neutron absorption; Manganous sulfate bath; Neutron source absorption; Neutron source calibration; 12177. SP305-3.

mal neutron constants; Calibration; Neutron moisture gauge; Pedology; Soil; SP425, pp. 516-519. SP305-7.

mal neutron detection; Acoustic cavitation; Boron ( $n,\alpha$ ) fission reaction; Cavitation; Neutron detection; Radiation-induced cavitation; 11741. SP305-2.

mal neutron detection; X-radiographic paper; Image quality; Neutron converters; Neutron radiography; Neutron scintillator; 15549. SP305-7.

mal neutron flux; Absolute gamma ray source strength; Back glass beads; 9435. SP305.

mal neutron flux; Threshold foil; Cadmium ratio; Fast neutron flux; Neutron activation analysis; Sample pressure; 4083. SP305-6.

mal neutron irradiation; Uranium; Fission tracks; Flux monitors; Glass standards; Standard reference material; SP260-49. SP305-6.

mal neutrons; Alpha tracks; Alumina; Cellulose acetate; Citric acid; Image analyzing system; Nuclear track technique; Oxygen tracer; 13758. SP305-5.

mal neutrons; Data analysis; Flux density; Intercomparisons; Least squares; Standards; 12048. SP305-3.

mal neutrons; Kossel diffraction; Lattice expansion; LiF; IBS reactor; Radiation damage; 15346. SP305-7.

mal neutrons; Three-dimensional; Complex object; Aminography; Multiple-film; Radiographic inspection; 6371. SP305-8.

mal neutrons; X rays; Calibration; Data processing; Evaluation; Gamma rays; Intercomparison; Performance; Personnel dosimetry; Phosphate glass; Photographic film; Radioactive sources; 10920. SP305-2.

mal noise; Available power ratio; Microwave multipoint; Nonreciprocal multipoints; 11176. SP305-2.

mal noise; Josephson radiation; Line-width; Point contacts; Superconductivity; 10258. SP305-1.

mal noise; Low-frequency detector; Noise power; Noise temperature; Operational amplifiers; 11216. SP305-2.

mal noise; Millimeter waves; Noise calibration; Standard; 4148. SP305-6.

mal noise; Thermometry; Absolute temperature; 13587. SP305-5.

mal noise measurements; Voltage measurements; Attenuation measurements; Field strength measurements; High

frequency measurements; Impedance measurements; Phase measurements; Progress in radio measurements; 10182. SP305-1.

Thermal noise standard; Error analysis; Millimeter wave; Noise; Nyquist's theorem; TN615. SP305-4.

Thermal oscillations; Liquid helium; Cryogenics; TN363. SP305-1.

Thermal oscillations; Two-dimensional lattice dynamics; Energy calculations; Grüneisen parameter; Lattice stability; Shock wave propagation; 11165. SP305-2.

Thermal partial denture; Alloy castings; Gold alloys; Hydroscopic inlay; Thermal inlay; 10410. SP305-1.

Thermal performance; Data requirements; Measurement uncertainty; Solar energy systems evaluation; NBSIR 76-1137. SP305-8.

Thermal performance; Solar collector; Solar energy; Solar radiation; Standard; Standard test; NBSIR 74-635. SP305-7.

Thermal performance; Thermal storage; Thermal test; Solar energy; Standard; Standard test; NBSIR 74-634. SP305-7.

Thermal performance; Thermal storage; Solar collector; Solar energy; Solar radiation; Standard; Standard test; TN899. SP305-8.

Thermal performance; Ventilation; Water heating; Air leakage; Building design; Energy conservation; Fenestration; HVAC systems; Illumination; Insulation; Lighting; Performance standard; NBSIR 74-452. SP305-8.

Thermal performance standards; Indoor thermal environment; Insulated construction; Insulation research; Thermal building design; Thermal insulation; 9498. SP305.

Thermal polystyrene; Polymers; Polystyrene degradation; Pyrolysis; Thermolysis; Anionic polystyrene; Molecular weight distributions; Molecular weights; J.77A No. 1, 157-170 (1973). SP305-5.

Thermal potential; Thermal safety; Contact burn; Heat conduction; Human tissue; Thermal impact; 15050. SP305-7.

Thermal properties; Adhesive; Low temperature; Mechanical properties; Polymer; Polyurethane; Resilience; 11515. SP305-2.

Thermal properties; Advanced fiber composites; Cryogenics; Dynamic mechanical properties; Literature review; Static mechanical properties; 15667. SP305-7.

Thermal properties; Combustion; Conduction; Diffusion flames; Flame spread; Heat transfer; Integral equations; Mass transfer; Radiation; Reaction kinetics; 11285. SP305-2.

Thermal properties; Compilation; Electrical properties; Mechanical properties; Plastics; Polymers; 13444. SP305-5.

Thermal properties; Compilation; Electrical properties; Mechanical properties; Plastics; Polymers; Monogr. 132. SP305-5.

Thermal properties; Composite materials; Electrical properties; Mechanical properties; Metals; Plastics; Review; 13554. SP305-5.

Thermal properties; Cryogenics; Dynamic mechanical properties; Glass-fiber composites; Literature review; Static mechanical properties; 15170. SP305-7.

Thermal properties; Fiberglass cloth; Mechanical properties; Stress analysis; Superconducting coil composite; Superconducting wire; NBSIR 76-837. SP305-8.

Thermal properties; Thermogravimetric analysis (TGA); Thermoplastic pipe; Chlorinated polyvinyl chloride; Hardness; Internal stress; Polyvinyl chloride; Thermal mechanical analysis (TMA); NBSIR 74-610. SP305-7.

Thermal properties; Transient techniques; Heat capacity; High pressures; Thermal conductivity; Thermal diffusivity; 15709. SP305-8.

Thermal properties; Transistors, power, safe-operating area; Method of measurement, electrical; Semiconductor devices; Temperature, peak; 15493. SP305-7.

- Thermal properties; Volume; Bulk modulus; Grüneisen;  $n$ -alkanes; Normal mode; Polyethylene; Quasiharmonic specific heat; String of beads; Thermal expansion; *12305*. SP305-3.
- Thermal properties; Wire bonds; Carrier lifetime; Electrical properties; Germanium; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; *TN472*. SP305-1.
- Thermal quantities; Time and frequency; Acoustic quantities; Electrical quantities; Electromagnetic quantities; End-use measurements; Ionizing radiation; Measurement activities; Measurement institutions; Mechanical quantities; National Measurement System; *NBSIR 75-943*. SP305-8.
- Thermal quantities; Time and frequency; Acoustics; Atomic properties; Economics; Electrical quantities; Ionizing radiation; Mechanical quantities; National measurement system; Optical quantities; Surface properties; *NBSIR 75-947*. SP305-8.
- Thermal radiant-energy response; Thermal transient response; Transducer; Coatings; Photoflash bulb; Pressure transducer; Protective coatings; *NBSIR 76-1060*. SP305-8.
- Thermal radiant-energy response; Thermal transient response; Transducers; Zero shift; Coatings; Dynamic; Dynamic response; Pressure transducer; Protective coatings; Shock tube; Tape; *NBSIR 76-1144*. SP305-8.
- Thermal radiation; Computational methods; Emissivity; Emittance measurements; Radiant heat transfer; Reflectance measurements; *9303*. SP305.
- Thermal radiation; Fire growth; Fire tests; Flashover; Room fires; Scale models; *NBSIR 75-710*. SP305-7.
- Thermal radiation; Fire tests; Flashover; Heat release rate; Scale models; *SP411*, pp. 139-153. SP305-6.
- Thermal radiation; Thermal transient; Zero shift; Accelerometer; Performance characteristics; Piezoelectric; Test method; *TN855*. SP305-7.
- Thermal radiation; Thoria; Zirconia; Alumina; Ceramic oxides; Emittance; Error sources; Magnesia; Measurement uncertainties; Spectral emittance; *J70A5-412*, 393-415 (1966). SP305.
- Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; Radiation properties; Reflectance; Spectral emittance; Spectral reflectance; *TN292*. SP305.
- Thermal radiation; Total emittance; Emissivity; Emittance; High temperature reflectance; Infrared reflectance; Radiation properties; Reflectance; Spectral emittance; Spectral reflectance; *10017*. SP305-1.
- Thermal radiation; Upholstery; Waste receptacle; Buildings; Combustibility; Fire intensity; Flames; Furnishings; Heat release; Ignition; Smoke; *NBSIR 75-679*. SP305-7.
- Thermal radiation; Vacuum; Weightlessness; Ablation; Particulate radiation; Re-entry; Space simulation; *SP336*. SP305-3.
- Thermal radiation; V-grooves; Reflectance; Specular walls; *J70C4-238*, 275-280 (1966). SP305.
- Thermal radiation; Viscoelasticity; Ceramics; Elasticity; Fracture; Inelastic deformation; Melting point; Standards; Thermal conductivity; Thermal expansion; *SP303*. SP305-1.
- Thermal radiation; Wastebaskets; Buildings; Calorimetry; Combustibility; Fire intensity; Flame spread; Furnishings; Heat release; *SP361*, Vol. 1, pp. 677-686. SP305-4.
- Thermal radiation properties; Absorbance; Electromagnetic theory; Emittance; Measurement techniques; Metals; Reflectance; Surface effects; *13684*. SP305-5.
- Thermal radiation properties; Computations; Oxygen; *13185*. SP305-5.
- Thermal radiation properties; Emittance; High-speed measurements; Melting; Normal spectral emittance; Tantalum; *12307*. SP305-3.
- Thermal radiation properties; Thermodynamics; Tungsten; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; *J75A No. 4*, 283-291 (1971). SP305-3.
- Thermal radiation properties; Thermodynamics; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Niobium; *J75A No. 6*, 565-571 (1971). SP305-3.
- Thermal radiation properties; Thermodynamics; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Tantalum; *J75A No. 1*, 1-10 (1971). SP305-3.
- Thermal radiation properties; Thermodynamics; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Molybdenum; *J74A No. 1*, 65 (1970). SP305-2.
- Thermal radiation shields; Total emissivity; Niobium; Supercapacitors; *13371*. SP305-5.
- Thermal radiative transfer; Blackbody; Holrahn radiative transfer; *13543*. SP305-5.
- Thermal reactor testing; Benchmark experiments; Dosimeter; Fast reactor testing; Fission products; Shielding; *SP425*, 834-841. SP305-7.
- Thermal regeneration; Ellipsometer; Iron; Oxidation; *108*. SP305-1.
- Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Interatomic potential; Molecular dynamics; Second sound; Shock wave; Stress wave; Temperature wave; Thermal diffusivity; *16138*. SP305-8.
- Thermal relaxation; Anharmonic crystal; Computer simulation; Energy transport; Heat pulse; Molecular dynamics; Second sound; Stress pulse; Temperature wave; Thermal diffusivity; Thermal equilibrium; *16589*. SP305-8.
- Thermal relaxation; Anharmonicity; Crystal; Heat pulse; Lattice; Molecular dynamics; Second sound; Stress wave; Temperature wave; *14253*. SP305-6.
- Thermal relaxation; Equation of state of solids; Lattice dynamics; Shock compression; Shock wave; *SP326*, pp. 105-110. SP305-3.
- Thermal relaxation; Glassy state; Glass transition; Heat capacity; Polymer; Specific heat; Strain energy; Supercooled liquid; *16309*. SP305-8.
- Thermal relaxation; Three dimensions; Crystalline solid; Liquid; Molecular dynamics; Second sound; Shockwave; *134*. SP305-5.
- Thermal relaxation; Volume viscosity; Brillouin scattering; Density fluctuations in liquids; Rayleigh scattering; Spectral distribution of scattered light; Structural relaxation; *J72A No. 1*, 95-100 (1968). SP305-1.
- Thermal relaxation; Volume viscosity; Activity coefficients; Binary mixture; Brillouin scattering; Fluctuations; Light scattering from solutions; Rayleigh scattering; *11686*. SP305-2.
- Thermal relaxation density fluctuations in liquids; Brillouin scattering; Carbon disulfide-light scattering; Intensity of scattered light; Light scattering liquids; *9958*. SP305-1.
- Thermal resistance; Alloys; Cryogenics; Electrical resistivity; Electron conductivity; Lorenz ratio; Low temperature research; Metals; Thermal conductivity; *12538*. SP305-4.
- Thermal resistance; Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Ultrasonic bonding; Voltage contrast mode; Wire bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; *SP400-8*. SP305-7.
- Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electron epitaxial layer thickness; *SP400-12*. SP305-7.

Thermal resistance; Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Boron redistribution; Boron redistribution; Capacitance-voltage methods; Carrier lifetime; Deep depletion; Dopant profiles; Electrical properties; Electron beam evaporator; *SP400-17. SP305-7.*

Thermal resistance; Thermal response; Transistors; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; Large-coupled device structures; *SP400-19. SP305-8.*

Thermal resistance; Thermal transmittance; Windows; Acoustics; Air infiltration; Air leakage; Architectural acoustics; Building acoustics; Doors; Energy conservation; Heat loss from buildings; Heat transfer; Sound transmission loss; *BSS77. SP305-7.*

Thermal resistance; Thermally stimulated measurements; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; Generation centers; *TN773. SP305-5.*

Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; Generation centers; Germanium; *TN788. SP305-5.*

Thermal resistance; Thermally stimulated properties; Trapping centers; Wire bonds; Beam leads; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Generation centers; Gold-doped silicon; *4806. SP305-5.*

Thermal resistance; Thermally stimulated capacitance; Thermally stimulated current; Wire bonds; Contact resistance; Die attachment; Dopant profiles; Electrical properties; Electronics; Gold-doped silicon; Hermeticity; Metallization; Methods of measurement; Microelectronics; *SP400-1. SP305-5.*

Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; *TN717. SP305-4.*

Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; *TN727. SP305-4.*

Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN733. SP305-4.*

Thermal resistance; Thermographic measurements; Transistor screening; Current constriction; DC current gain; Hot-spot screening; Methods of measurement; Power transistors; Reliability; Thermal hysteresis; *12474. SP305-4.*

Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; *TN702. SP305-3.*

Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN560. SP305-3.*

Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; *TN571. SP305-3.*

Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; *TN592. SP305-3.*

Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; *TN598. SP305-3.*

Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Germanium; Metallization; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; *TN475. SP305-1.*

Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; Microelectronics; *TN488. SP305-1.*

Thermal resistance; Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; Microelectronics; *TN495. SP305-1.*

Thermal resistance; Thermographic measurements; Ultrasonic microphone; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; Gold-doped silicon; *TN520. SP305-2.*

Thermal resistance; Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN555. SP305-2.*

Thermal resistance; Transistor, power; Current crowding; Hot spots; Reliability; Safe operating area limits; Second breakdown; Semiconductor devices; *16328. SP305-8.*

Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Generation centers; Germanium; Gold-doped silicon; *TN754. SP305-5.*

Thermal resistance; Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Generation centers; Germanium; Gold-doped silicon; *TN743. SP305-4.*

Thermal resistance; Ultrasonic wire bonding; Voltage contrast mode; X-ray photoelectron spectroscopy; Acoustic emission; Auger electron spectroscopy; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; Dopant profiles; *SP400-25. SP305-8.*

Thermal resistance; Wood floor; Wood joist; Fire endurance; Fire test; Flame through; Full scale; Housing; Operation BREAKTHROUGH; Single family residence; Small scale; *13790. SP305-5.*

Thermal resistance measurement; Darlington hot spot screen; Darlington thermal resistance; Emitter-only switching; Hot spot screen for Darlington; Integrated power Darlington thermal resistance; *15610. SP305-7.*

Thermal resistivity; Cottrell atmospheres; Mechanical properties; Phonon scattering; *SP317, pp. 391-394. SP305-3.*

Thermal resistivity; Thermophysical properties; Conductance; Conductivity; Contact conductance; Contact resistance; Electrical conductivity; Electrical resistivity; Heat transfer; Lorenz function; Resistivity; Temperature; Thermal conductivity; *SP302. SP305-1.*

- Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Thick film copper; Voltage contrast mode; Wire bonds; X-ray photoelectron spectroscopy; Boron redistribution; Collector resistor; Doping profiles; Effective masses; Electrical properties; *SP400-4. SP305-6.*
- Thermal response; Thermally stimulated capacitance; Thermally stimulated current; Ultrasonic bonding; Voltage contrast mode; Wire bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; Epitaxial layer thickness; *SP400-8. SP305-7.*
- Thermal response; Transistors; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; Charge-coupled device structures; Darlington pairs; *SP400-19. SP305-8.*
- Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; Epitaxial layer thickness; Flying-spot scanner; *SP400-12. SP305-7.*
- Thermal response; Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Boron nitride; Boron redistribution; Capacitance-voltage methods; Darlington pairs; Deep depletion; Dopant profiles; Electrical properties; Electron beam evaporator; *SP400-17. SP305-7.*
- Thermal response factors; On-line simulation of temperature controls; *16220. SP305-8.*
- Thermal response measurements; Transistors (thermal measurements); Computer simulation (transient thermal); Current crowding (transistors); Power transistors; Thermal impedance measurements; *14616. SP305-6.*
- Thermal response measurements; Transistors (thermal measurements); Computer simulation (transient thermal); Current crowding (transistors); Power transistors; Thermal impedance measurements; *14963. SP305-7.*
- Thermal safety; Contact burn; Heat conduction; Human tissue; Thermal impact; Thermal potential; *15050. SP305-7.*
- Thermal safety; Thermal tissue damage; Heat conduction; Thermal inertia; Thermal injury; *14517. SP305-6.*
- Thermal self-focusing; Absorption coefficient; Damage threshold; Electrostrictive self-focusing; Electrostriction; Kerr effect; Laser damage; Nonlinear index of refraction; Self-focusing; *13529. SP305-5.*
- Thermal self-focusing; Absorption coefficient; Damage threshold; Electrostriction; Electrostrictive self-focusing; Kerr effect; Laser damage; Nonlinear index of refraction; Self-focusing; *13964. SP305-6.*
- Thermal self-focusing; Thoria:yttrium oxide ceramic; Yttrium aluminum garnet; Absorption coefficient; Calcite; Damage threshold; Deuterated potassium dihydrogen phosphate; Electrostriction; Electrostrictive self-focusing; Inclusion damage; Kerr effect; *13793. SP305-5.*
- Thermal self-focusing; Yttrium aluminum garnet; Absorption coefficient; Electrostriction; Kerr effect; Laser damage; Nonlinear refractive index; Optical glasses; Self-focusing; *SP387, pp. 26-35. SP305-5.*
- Thermal sensitivity index; Calorimeter; Combustion; Fire test; Heat release; Limiting thermal index; Pyrolysis; Radiant heat; *NBS-GCR-76-54. SP305-8.*
- Thermal shock; Abrasive machining; Alumina ceramic; Chemical polishing; Crack healing; Delayed fracture; Glazing; Humidity; Refiring; Strength; Surface flaws; Surface treatments; *SP348, pp. 353-363. SP305-4.*
- Thermal shock; Built-up roof membrane; Innovation; Preventive measures; Splitting failures; *9207. SP305.*
- Thermal shock; Ceramics; Fracture; Fracture surface energy; Strength; *11524. SP305-2.*
- Thermal shock; Time to failure; Ceramics; Fracture; Fracture mechanics; Glass; Impact damage; Strength; *14886. SP305-7.*
- Thermal shock control; Arc machining; Cutting; Drilling; E beam mass machining; Laser machining; Shaping; *SP348, 193-195. SP305-4.*
- Thermal shroud; Gaseous nitrogen heater; Gas stream blow GN temperature conditioning; Solar array; Solar cell; Thermal cycle vacuum testing; *SP336, pp. 669-682. SP305-3.*
- Thermal stability; Coordination polymers; Role of metal ligand; *16308. SP305-8.*
- Thermal stability; Metallo-organic polymers; Role of metal ligand; Synthesis; *10276. SP305-1.*
- Thermal stability; Thermogravimetric analysis; Wood pulp; Aluminum; Calcium; Carboxylic acid; Cellulose; Different thermal analysis; Hemicellulose; Ion exchange; PH; Pyrolysis; *13109. SP305-5.*
- Thermal stability; Uranium; Fission track; Glass; Nuclear technique; Standard Reference Material; *13093. SP305-5.*
- Thermal storage; Energy conservation; GSA/Manchester building; Solar collector; Solar heating and cooling; *NBSIR 1056. SP305-8.*
- Thermal storage; Solar buildings; Solar collectors; So domestic hot water systems; Solar heating; Standards; *NBS 76-1059. SP305-8.*
- Thermal storage; Solar collector; Solar energy; Solar radiation; Standard; Standard test; Thermal performance; *TN8. SP305-8.*
- Thermal storage; Thermal test; Solar energy; Standard; Standard test; Thermal performance; *NBSIR 74-634. SP305-7.*
- Thermal stratification; Computer program; Cryogenic; Liquid hydrogen; Mathematical model; Self pressurization; *1420. SP305-6.*
- Thermal stress; Yield stress; Elastic stress; Heat transfer; Plastic strain; *J70B4-188, 265-272 (1966). SP305.*
- Thermal stresses; Extrinsic damage; Intrinsic damage; Laminate materials; Surface damage; Switched lasers; *12569. SP305.*
- Thermal structure; Atmospheric resonances; Auroral fringing; Infrasonic waves; *9186. SP305.*
- Thermal studies; Atherosclerosis; Cholesterol and its fatty acid esters; Differential scanning calorimetry; Lecithin; Lip water systems; Phospholipids; Sphingomyelin; *SP338, pp. 511-517. SP305-2.*
- Thermal test; Solar energy; Standard; Standard test; Thermal performance; Thermal storage; *NBSIR 74-634. SP305-7.*
- Thermal tissue damage; Heat conduction; Thermal inertia; Thermal injury; Thermal safety; *14517. SP305-6.*
- Thermal titration; Adsorption of hydrogen on platinum black; Heat of adsorption of hydrogen; Platinum black; *1020. SP305-1.*
- Thermal transient; Laser; Performance characteristic; Pressure transducer; Temperature effects; Test method; *TN7. SP305-4.*
- Thermal transient; Transducer; Acceleration; Calibrator; Dynamic; Centrifuge; Dynamic; Inter-agency Transducer Project; Liquefaction; Pressure; Shock tube; *10483. SP305-1.*
- Thermal transient; Transducer; Calibration; Dynamic; Photoflash bulb; Pressure; Pressure measurement; Pressure transducer; *NBSIR 75-654. SP305-7.*
- Thermal transient; Transducer; Calibration; Dynamic; Electronic flash; Photoflash bulb; Pressure; Pressure transducer response; *NBSIR 75-732. SP305-7.*
- Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; Photographic flashbulb; Pressure; Pressure measurement; Pressure transducer; *TN905. SP305-8.*
- Thermal transient; Transducer; Zero shift; Calibration; Dynamic; Electronic flash; Photoflash bulb; Pressure; Pressure measurement; Pressure transducer; Pressure transducer response; *NBSIR 76-1038. SP305-8.*
- Thermal transient; Zero shift; Accelerometer; Performance characteristics; Piezoelectric; Test method; Thermal radiation; *TN855. SP305-7.*



nal transient response; Transducer; Coatings; Photoflash  
 Pressure transducer; Protective coatings; Thermal radi-  
 energy response; *NBSIR 76-1060. SP305-8.*

nal transient response; Transducers; Zero shift; Coatings;  
 Dynamic response; Pressure transducer; Protective  
 coatings; Shock tube; Tape; Thermal radiant-energy  
 response; *NBSIR 76-1144. SP305-8.*

nal transients; Architectural heritage; Fire; Guardrail;  
 Capacity; Mathematics; Mercury; Performance standard;  
 Pressure transducers; SRM; Surgical implants; Testing;  
*J. NBS 60, No. 8, 1-24 (1976). SP305-8.*

nal transmittance; Windows; Acoustics; Air infiltration;  
 leakage; Architectural acoustics; Building acoustics;  
 Energy conservation; Heat loss from buildings; Heat  
 transfer; Sound transmission loss; Thermal resistance; *BSS77.*  
*SP305-7.*

nal transpiration; Anomalous Knudsen limit; Diffuse scat-  
 tering; Irreversible thermodynamics; Specular scattering;  
*J. SP305-5.*

nal transpiration; Transport phenomena; Viscous flow;  
 Continuous systems; Diffusion flow; Discontinuous systems;  
 Membranes; Nonequilibrium thermodynamics; Porous media;  
*J. SP305-1.*

nal transpiration; Vapor-stream pumping; Viscosity gauge;  
 Capacitance-diaphragm gauge; Knudsen radiometer; McLeod  
 gauge; Micromanometry; Quartz Bourdon gauge; Static ex-  
 pansion; *14933. SP305-7.*

nal transport; Equations of motion; Nonequilibrium  
 statistical mechanics; Open systems; *12197. SP305-3.*

nal transport; Transport coefficient; Wave transmission in  
 random media; Harmonic crystal; Heat transport; Isotopic  
 order; Kapitza resistance; Scattering theory in one-dimen-  
 sion; Statistical mechanics; Thermal conduction; *12808.*  
*SP305-4.*

nal vacuum tests; Volatile constituents; Volatilization; Ab-  
 sorption; Adsorption; "bake out"; Components; Decomposi-  
 tion; Degassing; Environment; Evaporation; Outgassing;  
 Sublimation; Thermal conduction; *SP336, pp.*  
*3-485. SP305-3.*

nal volatilization; 1,2-dihydronaphthalene; Degradation;  
 Polymerization; Pyrolysis; Thermal decomposition; *9218.*  
*SP305.*

nal voltage converter; Inductive voltage divider; Measure-  
 ment; Phase-angle; Standard; Audio frequency; *TN347.*  
*SP305.*

nal voltage converter; Transfer standard; Ac-dc transfer;  
 Comparison; *13098. SP305-5.*

nal wave; Tin; Turbulence; Interface; Kinetics; Thermal  
 convection; *10798. SP305-1.*

nal-current-converter; Thermopile; Ammeter; Compensa-  
 tion; Radio-frequency; RF-DC difference; Standard; *14588.*  
*SP305-6.*

nal-cycling; Thermocouple; Tungsten-rhenium; Vacuum;  
 Neon; Argon; Beryllium-oxide; Calibrations; Emf; Helium;  
*425. SP305-4.*

nal-inertia; Thermesthesiometer; Burn-hazard; Heat-flow;  
*589. SP305-6.*

nalization; Absorption; Neutron; Reactor; Resonance;  
*46. SP305-1.*

nalization; Elastic collisions; Positronium; *J.72A No. 1,*  
*93 (1968). SP305-1.*

nalization length; Formation; Line; Noncoherent scatter-  
 ing; *12071. SP305-3.*

nalization length; Noncoherent scattering; Radiative  
 transfer; Spectral line; *11444. SP305-2.*

nal-activated processes; Twinning; Conference; Con-  
 sumer mechanics; Crystal physics, dislocations; Disloca-  
 tions; Elasticity; Electron-dislocation interactions; Lattice de-  
 fects; Phonon-dislocation interactions; Solid-state; Theoreti-  
 cal physics; *SP317. SP305-3.*

Thermally induced forces; Thermal-Shock Resistance Factor;  
 Development; Roofing membrane; Strength properties; *9651.*  
*SP305-1.*

Thermally induced forces; Thermal-shock resistance factor;  
 Development; Roofing membrane; Strength properties;  
*10332. SP305-1.*

Thermally stimulated capacitance; Thermally stimulated cur-  
 rent; Wire bonds; Contact resistance; Die attachment; Dop-  
 ant profiles; Electrical properties; Electronics; Gold-doped  
 silicon; Hermeticity; Metallization; Methods of measurement;  
 Microelectronics; Microwave diodes; *SP400-1. SP305-6.*

Thermally stimulated capacitance; Thermally stimulated cur-  
 rent; Thick film copper; Voltage contrast mode; Wire bonds;  
 X-ray photoelectron spectroscopy; Boron redistribution; Col-  
 lector resistor; Doping profiles; Effective masses; Electrical  
 properties; *SP400-4. SP305-6.*

Thermally stimulated capacitance; Thermally stimulated cur-  
 rent; Ultrasonic bonding; Voltage contrast mode; Wire  
 bonds; Boron redistribution; Darlington pairs; Dopant  
 profiles; Electrical properties; Electronics; Epitaxial layer  
 thickness; Flying-spot scanner; *SP400-8. SP305-7.*

Thermally stimulated capacitance; Thermally stimulated cur-  
 rent; Gold-doped silicon; Measurement methods; MOS  
 capacitor; *p-n* junction; Semiconductor defects; Silicon;  
*16363. SP305-8.*

Thermally stimulated capacitance; Thermally stimulated cur-  
 rent; Cryostat; Defects; Gold-doped silicon; Measurement  
 methods; Microelectronics; MOS capacitor; *p-n* junctions;  
 Semiconductors; Silicon; *SP400-26. SP305-8.*

Thermally stimulated current; Gold-doped silicon; Measure-  
 ment methods; MOS capacitor; *p-n* junction; Semiconductor  
 defects; Silicon; Thermally stimulated capacitance; *16363.*  
*SP305-8.*

Thermally stimulated current; Thermal resistance; Ultrasonic  
 wire bonding; Voltage contrast mode; X-ray photoelectron  
 spectroscopy; Acoustic emission; Auger electron spectroscopy;  
 Beam-lead bonds; Bias-temperature stress test; Boron  
 redistribution; *SP400-25. SP305-8.*

Thermally stimulated current; Cryostat; Defects; Gold-doped  
 silicon; Measurement methods; Microelectronics; MOS  
 capacitor; *p-n* junctions; Semiconductors; Silicon; Thermally  
 stimulated capacitance; *SP400-26. SP305-8.*

Thermally stimulated current; Thick film copper; Voltage con-  
 trast mode; Wire bonds; X-ray photoelectron spectroscopy;  
 Boron redistribution; Collector resistor; Doping profiles; Ef-  
 fective masses; Electrical properties; Electron beam induced  
 current mode electronics; *SP400-4. SP305-6.*

Thermally stimulated current; Ultrasonic bonding; Voltage con-  
 trast mode; Wire bonds; Boron redistribution; Darlington  
 pairs; Dopant profiles; Electrical properties; Electronics;  
 Epitaxial layer thickness; Flying-spot scanner; Gold-doped sil-  
 icon; Hermeticity; *SP400-8. SP305-7.*

Thermally stimulated current; Thermal resistance; Thermal  
 response; Ultrasonic bonding; Wire bonds; X-ray photoelec-  
 tron spectroscopy; Acoustic emission; Beam-lead bonds;  
 Boron redistribution; Darlington pairs; Dopant profiles; Elec-  
 trical properties; Electronics; *SP400-12. SP305-7.*

Thermally stimulated current; Thermal resistance; Thermal  
 response; Ultrasonic bonding; Wire bonds; X-ray photoelec-  
 tron spectroscopy; Boron nitride; Boron redistribution;  
 Capacitance-voltage methods; Darlington pairs; Deep depen-  
 sion; Dopant profiles; Electrical properties; *SP400-17. SP305-*  
*7.*

Thermally stimulated current; Wire bonds; Contact resistance;  
 Die attachment; Dopant profiles; Electrical properties; Elec-  
 tronics; Gold-doped silicon; Hermeticity; Metallization;  
 Methods of measurement; Microelectronics; Microwave  
 diodes; Mobility; MOS devices; Oxide films; *SP400-1. SP305-*  
*6.*

- Thermally stimulated currents; MOS capacitors; *p-n* junctions; Resistivity of silicon; Semiconductor devices; Semiconductor process control; Sheet resistors; Test patterns; *SP400-21*. **SP305-8.**
- Thermally stimulated measurements; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; Generation centers; Germanium; *TN773*. **SP305-5.**
- Thermally stimulated measurements; Defect centers; *p-n* junction; Semiconductor characterization; Silicon; *14226*. **SP305-6.**
- Thermally stimulated properties; Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; Generation centers; Germanium; Gold-doped silicon; *TN788*. **SP305-5.**
- Thermally stimulated properties; Trapping centers; Wire bonds; Beam leads; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Generation centers; Gold-doped silicon; Methods of measurement; *TN806*. **SP305-5.**
- Thermally tempered glass; Fracture mirror size; Modulus rupture; *9227*. **SP305.**
- Thermally-induced forces; Thermal-shock resistance factor; Development; Roofing membrane; Strength properties; *BSS9*. **SP305.**
- Thermal-shock resistance factor; Development; Roofing membrane; Strength properties; Thermally-induced forces; *BSS9*. **SP305.**
- Thermal-Shock Resistance Factor; Development; Roofing membrane; Strength properties; Thermally induced forces; *9651*. **SP305-1.**
- Thermal-shock resistance factor; Development; Roofing membrane; Strength properties; Thermally induced forces; *10332*. **SP305-1.**
- Thermal/structural performance of piping; Thermoplastic piping in plumbing; Fire performance of piping; Functional performance of piping; Performance characteristics for piping; *BSS68*. **SP305-7.**
- Thermal-vacuum chambers; Evacuating; Heat transmission; Infrared scanning; Mars environmental simulation; Outgassing; Thermal insulation; *SP336*, pp. 725-748. **SP305-3.**
- Thermal-wave; Cam; Equation; Generator; Sine wave; Thermal diffusivity; *10799*. **SP305-1.**
- Thermesthesiometer; Air conditioners; Clean air; Drunk drivers; Energy labeling; Fundamental constants; Irradiated foods; Metric computer program; Migrant camps; *DIM/NBS 58*, No. 1, 1-24 (1974). **SP305-6.**
- Thermesthesiometer; Burn-hazard; Heat-flow; Thermal-inertia; *14589*. **SP305-6.**
- Thermesthesiometer; Thermometry; Burn hazard; Consumer products; Contact temperature; *15285*. **SP305-7.**
- Thermesthesiometer; Thermometry; Consumer products; Contact temperature; *TN816*. **SP305-6.**
- Thermesthesiometer; Thermometry; Consumer products; Contact temperature; *15303*. **SP305-7.**
- Thermionic emission; Vaporization; Viscosity; Coal slags; MHD; *15449*. **SP305-7.**
- Thermionic emission; Work function; Adsorption; Carbon monoxide; Chemisorption; Desorption; Electron reflection; Nitrogen; Oxygen; Single crystal; Sticking coefficient; *10392*. **SP305-1.**
- Thermistor; Thermocouple; Conduction error; Radiation error; Resistance thermocouple; Temperature measurement; *BSS26*. **SP305-2.**
- Thermistor probe; High-resistance leads; Radio frequency heating; Temperature measurements; *15803*. **SP305-8.**
- Thermistors; Resistance thermometer; Radiation pyrometry; Temperature; Thermometry; Thermocouples; *Mono. 27*, Supplement 2. **SP305.**
- Thermistors; Thermocouple; Thermometry; Fluidic thermometers; Pyrometry; Radiation pyrometry; Temperature measurement; *SP373*. **SP305-4.**
- Thermistors; Thermocouples; Thermometers; Air in die measurement errors; Temperature measurement; *10*. **SP305-1.**
- Thermoanalytical calorimetry; Base line determination; Differential scanning calorimetry (DSC); Heats of transition; Thermal analysis; *13324*. **SP305-5.**
- Thermoanalytical standards; Tricalcium silicate; Spectrophotometry; Antimony; High precision determination nickel; Simultaneous determination copper; Co "releasing agents" in flame emission and atomic absorption; Magnesium; Ferrous SRMs; *TN402*. **SP305.**
- Thermocapillarity; Convection; Drops; Marangoni effect; Surface tension; *16341*. **SP305-8.**
- Thermochemical; Thermochemical standards; Thianthrene; Urea; Acetanilide; Bomb calorimetry; Calorimetry; Chlorobenzoic acid; Combustion; Creatinine; Fluorobenzoic acid; Nicotinic acid; Reference materials; *15441*. **SP305-7.**
- Thermochemical properties; Bond additivity method; Group additivity method; Peroxyacetyl nitrate; Peroxybenzoyl nitrate; *12204*. **SP305-3.**
- Thermochemical standard; Combustion; Enthalpy; Formation; Heat; Secondary standard; *J.79A No. 3*, 487-491 (1979). **SP305-7.**
- Thermochemical standards; Thianthrene; Urea; Acetanilide; Bomb calorimetry; Calorimetry; Chlorobenzoic acid; Combustion; Creatinine; Fluorobenzoic acid; Nicotinic acid; Reference materials; Thermochemical; *15441*. **SP305-7.**
- Thermochemical tables; Critically evaluated data; Enthalpy of formation; Equilibrium constant of formation; Free energy of formation; Gibbs energy function; Heat capacity; Heat of formation; *J. Phys. Chem. Ref. Data 3*, No. 2, 311-480 (1974). **SP305-6.**
- Thermochemical tables; Critically evaluated data; Enthalpy of formation; Equilibrium constant of formation; Free energy of formation; Gibbs energy function; Heat capacity; Heat of formation; *J. Phys. Chem. Ref. Data 4*, No. 1, 1-176 (1975). **SP305-7.**
- Thermochemical tables; Enthalpy; Entropy; Gibbs energy; Heat capacity; Potassium compounds; Rubidium compounds; Sodium compounds; Standard reference data; *NBSIR 76-1*. **SP305-8.**
- Thermochemistry; Adiabatic solution calorimeter; Enthalpy of reaction of  $H_2SO_4$  in aqueous NaOH;  $H_2SO_4$ , enthalpy of reaction in NaOH(aq); *J.77A No. 2*, 179-203 (1973). **SP305-5.**
- Thermochemistry; AgBr; AgCl; AgI;  $AgNO_3$ ; Enthalpy of solution; Enthalpy of precipitation; Enthalpy of solution; Enthalpy of reaction; KBr; KCl; Solution calorimetry; *J.77A No. 5*, 569-579 (1973). **SP305-5.**
- Thermochemistry; Analysis; Clinical chemistry; Glucose; Molar calorimetric; *15319*. **SP305-7.**
- Thermochemistry; Analytical chemistry; Bacterial identification; Biochemistry; Cellular processes; Clinical chemistry; Enzymes; Immunology; Medical instrumentation; Microcalorimetry; *13961*. **SP305-6.**
- Thermochemistry;  $BeF_2(c)$ ;  $BeO(c)$ ; Beryllium fluoride; Beryllium oxide; Enthalpies of formation;  $\Delta H^\circ_{298.15K}$  [ $BeF_2$ ]; *J.77A No. 2*, 227-235 (1973). **SP305-5.**
- Thermochemistry;  $BeO(c)$ , enthalpy of soln in HF(aq); Beryllium oxide; Enthalpy of soln in HCl(aq);  $BeO(c)$ , enthalpy of reaction HF(aq); Beryllium oxide; Enthalpy of solution; Heat of solution; *J.77A No. 2*, 217-225 (1973). **SP305-5.**

biochemistry; Biopolymer transitions; Calorimetry; Chemisorption; Dipalmitoyl L- $\alpha$ -lecithin; Microcalorimetry; 14573. SP305-6.

biochemistry; Calorimetry; Chemical energy; Chemical thermodynamic data; Energy scale (chemical); Equilibrium measurements; Mass spectrometry; Measurement system; Spectroscopy; State measurements; 15450. SP305-7.

biochemistry; Enthalpy of reaction; Heat of solution; Solubility; Calorimetry; Standard reference material; THAM; TRIS; (hydroxymethyl)aminomethane; J.77A No. 5, 581-597 (1973). SP305-5.

biochemistry; Enthalpy of reaction; Solution calorimetry; Standard reference material; Tris(hydroxymethyl)aminomethane; J.77A No. 5, 599-606 (1973). SP305-5.

biochemistry; Enthalpy of soln.  $\text{SiO}_2$ ; Heat of soln.  $\text{SiO}_2$ (c); Heat of soln in HF(aq); Reference material, soln calorimetry; (c), soln in HF(aq); J.77A No. 2, 205-215 (1973). SP305-5.

biochemistry; Thermodynamic data; Calorimetry; Microcalorimetry of biological processes; Standard reference materials for calorimetry; 13980. SP305-6.

biochemistry; Thermodynamics; Adenosine-5'-phosphate; Biochemistry; Enzyme catalyzed reactions; Glucose; Heat measurements; hexokinase; Metabolic processes; Microcalorimetry; 15174. SP305-7.

biochemistry; Thermodynamics; Adenosine 5'-phosphate; Biochemistry; Coupled equilibrium; Enzyme catalyzed reactions; Glucose; Heat measurement; Hexokinase; Magnesium; Metabolic processes; Microcalorimetry; 85. SP305-8.

biochemistry; Thermodynamics; Bibliography; Biochemical Biology; Data compilations; NBSIR 74-535. SP305-6.

biochemistry; Thermodynamics; Review articles; Water solution; Aqueous systems; Bibliography; Biochemical thermodynamics; Enthalpy data; Entropy data; Equilibrium data; Gibbs energy data; Heat capacity data; Partial molal properties; SP454. SP305-8.

biochemistry; Thermodynamic data networks; Computerized data analysis; Data evaluation; Least squares (L2); Statistical sums (L1); NBSIR 76-1147. SP305-8.

biochemistry; Ultrasonic bonding; Wire bond; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; Integrated circuits; Microelectronics; 726. SP305-4.

biochemistry; Ultrasonic bonds; Bonds (wire); Failure modes; Metallurgical failure modes; Microelectronics; 431. SP305-7.

biochemistry; Ammeter; Calibration; Current; Electrodynamics; Measurement; Radio-frequency; Standards; 10058. SP305-5.

biochemistry; Butane; Carbon monoxide; Catalysis; Combustion; Hydrogen; Optical pyrometer; Platinum; Platinum-13 percent rhodium; Temperature; 14637. SP305-6.

biochemistry; Conduction error; Radiation error; Resistance thermometer; Temperature measurement; Thermistor; 526. SP305-2.

biochemistry; Cryogenics; Seebeck voltage; Silver-gold alloy; Standard Reference Material; SP260-34. SP305-4.

biochemistry; Thermoelectric stability; Aging; Calibration range; Gradient; High temperature (700 to 2000 °C); Iridium; Iridium-rhodium alloy; Noble-metal thermocouple; Oxidation; Platinum; Platinum-rhodium alloy; Preferential oxidation; Temperature gradient; 16158. SP305-8.

biochemistry; Thermoelements; Sensor; Ultra high vacuum; W-Re alloys; EMF-temperature relationship; Furnace; High temperature; Refractory metals; J.75C No. 2, 99-106 (1971). SP305-3.

Thermocouple; Thermometry; Fluidic thermometers; Pyrometry; Radiation pyrometry; Temperature measurement; Thermistors; SP373. SP305-4.

Thermocouple; Triple point; Calibration; Fixed point; Freezing point; Furnaces; High temperature; IPTS-68; Platinum resistance thermometer; Temperature scale; 12354. SP305-3.

Thermocouple; Tungsten-rhenium; Vacuum; Anneal; Argon; Beryllium-oxide; Calibrations; Emf; Helium; Thermal-cycling; 12425. SP305-4.

Thermocouple data; Video tape; Warning lights; Weights and measures; Auto paint; Chlorine monitor; Color measurements; Color use; Postdoctoral appointments; Retroreflectors; Semiconductor technology; DIM/NBS 58, No. 9, 193-215 (1974). SP305-6.

Thermocouple disconnect; Thermoelectric thermometry; Thermometer; Vasodilation; Warm sensitive neurons; Anesthesiology; Brain temperature; Carotid artery; Clinical medicine; Cold stress (diver); Disposable thermometry; Esophageal thermometer; Fever; 13631. SP305-5.

Thermocouple drift; W-Re alloys; W-Re type thermocouples; W-Re thermoelements; Beryllium oxide; Ductility; Emf-temperature relationship; Microstructure; 13585. SP305-5.

Thermocouple psychrometers; Thermodynamic wet bulb temperature; Aspiring psychrometers; Dry- and wet-bulb psychrometers; Errors in psychrometric measurements; Psychrometric formulas; 12445. SP305-4.

Thermocouple tables; Thermometry; Thermometry fixed points; Electrical resistivity; IPTS-68; Temperature scale; Thermal emf of elements; 13110. SP305-5.

Thermocouples; Cryogenics; Gold alloy; Liquid helium; Liquid hydrogen; Liquid nitrogen; J.76A No. 3, 263-283 (1972). SP305-4.

Thermocouples; Cryogenics; Gold alloys; Standard reference data; 12618. SP305-4.

Thermocouples; Cryogenics; Gold alloy; 11454. SP305-2.

Thermocouples; Cryogenics; Homogeneity tests; Liquid helium; Liquid hydrogen; Liquid nitrogen; Monogr. 124. SP305-4.

Thermocouples; Standard Reference Data; 13572. SP305-5.

Thermocouples; Thermistors; Resistance thermometer; Radiation pyrometry; Temperature; Thermometry; Mono. 27, Supplement 2. SP305.

Thermocouples; Thermoelectric properties; Cryogenics; Dipping; Evaluation; Heterogeneity; Liquid helium; Liquid nitrogen; Low temperature tests; Seebeck effect; Temperature measurement; 12623. SP305-4.

Thermocouples; Thermoelectric reference data; Thermometry; Calibration; Nickel-base alloys; Nickel-chromium alloys; Nickel-silicon alloys; Reference tables; Temperature measurements; Thermal emf; 15518. SP305-7.

Thermocouples; Thermometers; Air in ducts; Measurement errors; Temperature measurement; Thermistors; 10632. SP305-1.

Thermocouples; Thermometry; Base metal alloys; Noble metal alloys; Temperature scale; Temperature standards; Monogr. 125. SP305-6.

Thermocouples; Thermometry; Base-metal thermocouples; Cryogenic thermocouples; Noble-metal thermocouples; Non-standardized thermocouples; Refractory metal thermocouples; Standardization; Temperature measurement; 15517. SP305-7.

Thermocouples; Thermometry; Cryogenics; 13603. SP305-5.

Thermocouples; Thermometry; Cryogenics; 10082. SP305-1.

Thermocouples; Thermometry; Temperature scales; 12984. SP305-4.

Thermocouples; Thermometry; Vapor pressure; Calibration; Cryogenics; Liquid helium; Liquid hydrogen; Liquid neon; Liquid nitrogen; Liquid oxygen; Reference data; Resistance thermometers; 14342. SP305-6.

- Thermocouples; Tungsten-rhenium alloys; Beryllium oxide; Drift; Microstructure; Thermal emf-temperature; 14094. SP305-6.
- Thermocouples, effect of pressure on emf of; Emf, thermocouple, effect of pressure on; Hot-junction temperature, non-linear evaluation of; Hot-junction temperature, pressurized furnace; Indirect temperature measurements; 12979. SP305-4.
- Thermodynamic; Absorption and emission spectroscopy; Far (vacuum) ultraviolet; Ion-molecule reactions; Matrix isolation; Photochemistry; Photoionization; Reaction kinetics; 13177. SP305-5.
- Thermodynamic; Argon; Bibliography; Compilations; Critical evaluation; Cryogenics; Experimental measurement; Fluorine; Helium; Hydrogen; Methane; Nitrogen; Oxygen; Properties of fluids; Review; 13848. SP305-6.
- Thermodynamic; Density; Dielectric constant; Electromagnetic properties; Equation of state; Ethane; Hydrocarbon; Liquefied natural gas; Measurements; Methane; Mixtures; 16631. SP305-8.
- Thermodynamic; Liquid; Configurational; Glass; Glass transition; Hole theory; Polymer; Poly(vinyl acetate); PVT; 14850. SP305-7.
- Thermodynamic; Vaporization; Enthalpy; Heavier elements; Literature survey; Refractory compounds; 9153. SP305.
- Thermodynamic analysis; Alkali hexafluorotellurates; Inorganic complex; Intermediate phases; Structure; 14298. SP305-6.
- Thermodynamic and kinetic factors; Calcium phosphates; Chemistry of calcium phosphates; Crystal chemistry; 9607. SP305-1.
- Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; Mechanical properties; Nuclear data; Standard reference data; Solid state data; TN747. SP305-4.
- Thermodynamic and transport properties; Cryogenic data center; Cryogenic fluids; Low temperature properties of materials; NBS cryogenic data center; 9255. SP305.
- Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design and development; Information services; Mechanical properties; Nuclear data; Solid state data; Standard reference data; TN448. SP305-1.
- Thermodynamic and transport properties; Accession list; Atomic and molecular properties; Chemical kinetics; Colloid and surface properties; Fundamental particles properties; General collections; Mechanical properties; Nuclear properties; Solid state properties; TN554. SP305-2.
- Thermodynamic and transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Data systems design; Information services; Mechanical properties; Nuclear data; Solid state data; Standard reference data; TN553. SP305-2.
- Thermodynamic anomalies; Vapor pressure; Argon; Carbon dioxide; Classical equation; Coexistence curve; Critical exponents; Critical point; Lattice gas; Power laws; Rectilinear diameter; Steam; 11985. SP305-3.
- Thermodynamic anomalies; Vapor pressure; Chemical potential; Critical region; Lattice gas; Scaling law; Specific heat; 10603. SP305-1.
- Thermodynamic cavitation; Cavitation; Cavitation inception; Cryogenic cavitation; Developed cavitation; 11298. SP305-2.
- Thermodynamic conductivity transport properties; Triple collisions; Viscosity; Collision integrals; Hard spheres; 12728. SP305-4.
- Thermodynamic consistency; Ammonia; Heat capacity; Ideal gas; PVT data; PVT surface; Temperature scale; 14678. SP305-6.
- Thermodynamic constants for HCl transfer; Activity coefficients; Non-aqueous emf; Standard emf; J.74A No. 5, 645 (1970). SP305-2.
- Thermodynamic cycles; Applications; Cryogenic; Refrigeration; 11520. SP305-2.
- Thermodynamic data; Calorimetry; Microcalorimetry of biochemical processes; Standard reference materials for calorimetry; Thermochemistry; 13980. SP305-6.
- Thermodynamic data; Waste disposal; Combustion thermodynamics; Enthalpies of formation; Incinerators, industrial; 16032. SP305-8.
- Thermodynamic data; X-ray diffraction data; Binary halide crystal structure transformation; Electronic data; Phase transformation; Spectroscopic data; NSRDS-NBS41. SP305-4.
- Thermodynamic data; X-ray diffraction data; Chromium crystal structure; Crystal structure transformation; Perchlorates; Phase transformations; Phosphates; Sulfates; NSRDS-NBS56. SP305-7.
- Thermodynamic data for incinerators; Waste utilization; from waste; Incinerators; Organic waste conversion; 15032. SP305-7.
- Thermodynamic data for mutarotations; Acid and catalysts; Catalysis of mutarotation; Deuterium oxidation; Isotope effects in mutarotations; Mechanism of mutarotation reaction; Mutarotases; Mutarotation of sugar; Pseudo-acyclic intermediates in mutarotation; 14456. SP305-6.
- Thermodynamic data networks; Computerized data analysis; Data evaluation; Least squares (L2); Least sums (L1); Thermodynamics; NBSIR 76-1147. SP305-8.
- Thermodynamic data, transport properties; Atomic and molecular data; Chemical kinetics; Colloid and surface properties; Mechanical properties; Nuclear data; Solid state data; Standard reference data; TN881. SP305-7.
- Thermodynamic diffusion equations; Vacancy diffusion mechanisms; Atomic diffusion mechanisms; Diffusion; domain wall; Review article; 15539. SP305-7.
- Thermodynamic effects; Vapor pressure; Cavitation; Capillary pressure; Steam; Steam vapor pressure; 14879. SP305-7.
- Thermodynamic equations; Alloys; Cross terms; Diffusion; Diffusion coefficients; Random alloys; 11595. SP305-2.
- Thermodynamic equations for diffusion; Vacancies; Binary alloys; Calculations; Correlation factors; Diffusion; Kirkendall shift; 10579. SP305-1.
- Thermodynamic equations for diffusion; Vacancies; Binary alloys; Diffusion; Diffusion coefficients; Kirkendall shift; 9032. SP305-1.
- Thermodynamic equilibrium; Collisional processes; LTE; Radiation field; State parameters; Stellar atmosphere; 10632. SP305-2.
- Thermodynamic equilibrium; Collisional processes; LTE; Radiation field; State parameters; Stellar atmosphere; 10632. SP305-2.
- Thermodynamic force; Entropy; Macroscopic fluctuations; 10146. SP305-1.
- Thermodynamic function; Density; Heat of vaporization; Hydrogen; Parahydrogen; Specific heat; 9246. SP305.
- Thermodynamic functions; Alumina; Aluminum oxide; Calcium; Drop calorimetry; Enthalpy; Heat capacity standard; Specific heat; Standard reference material; Synthetic materials; J.75A No. 5, 401-420 (1971). SP305-3.
- Thermodynamic functions; Ammonia; Ideal gas; J.72A No. 207-216 (1968). SP305-1.
- Thermodynamic functions; Ammonia; Ideal gas; NSRDS-NBS19. SP305-1.
- Thermodynamic functions; Bromates; Bromides; Chlorates; Chlorites; Critically evaluated data; Iodates; Iodides; Perchlorates; Periodates; Thermal decomposition; Phys. Chem. Ref. Data 3, No. 2, 481-526 (1974). SP305-



Thermodynamic functions; Carbonates; Thermal decomposition; *NSRDS-NBS30. SP305-1.*

Thermodynamic functions; Decomposition pressures; Sulfates; *NSRDS-NBS7. SP305.*

Thermodynamic functions; Nitrates; Nitrites; Thermal decomposition; *J. Phys. Chem. Ref. Data 1, No. 3, 747-772 (1972). SP305-6.*

Thermodynamic functions; Viscosities; Dielectric constants; Ethane, specific heats; Thermal conductivities; *13049. SP305-4.*

Thermodynamic information; Electronic density of states; Iron; Phase transitions; *SP323, pp. 741-752. SP305-4.*

Thermodynamic Kelvin Temperature Scale; Gas thermometry; International Practical Temperature Scale of 1968; Sorption; Triple point; Temperature standards; *J.77A No. 4, 383-389 (1973). SP305-5.*

Thermodynamic laws; Equilibria; Freezing point equation; Ideal gas laws; Thermal analyses; *11471. SP305-2.*

Thermodynamic limit; Distribution functions; Finite volumes; Redwood Salsburg equation; Perturbation expansion; Strip method; *15356. SP305-7.*

Thermodynamic measurements; Thermodynamic properties; Experimental thermodynamics; High-speed thermodynamic measurements; Shock wave techniques; *10831. SP305-1.*

Thermodynamic measurements; Transpiration equilibria; Absorption spectrometry; Calorimetry; Mass spectrometry; Diffusion applications; *12395. SP305-4.*

Thermodynamic parameters (estimated); Beryllia hydrates (series); Contaminants; Gold; Pyrometry; Reference vaporization; Temperature consistency; *J.76A No. 5, 511-515 (1972). SP305-4.*

Thermodynamic properties;  $\alpha$ -beryllium nitride; Calorimetry; Entropy; Heat capacity; Specific heat; *J.74A No. 5, 617-629 (1970). SP305-2.*

Thermodynamic properties; Adiabatic calorimetry; Branched polyethylene; Calorimetry; Cryogenic temperature; Heat capacity; Linear polyethylene; Polyethylene; *J.79A No. 2, 7-441 (1975). SP305-7.*

Thermodynamic properties; Air; Argon; Hydrogen; Ionized gases; Nitrogen; Oxygen; *16167. SP305-8.*

Thermodynamic properties; Air; Gases; High density; Mixtures; *1455. SP305-8.*

Thermodynamic properties; Aluminum trifluoride; Drop calorimetry; Enthalpy measurements; High-temperature calorimetry; Phase transition; Pretransition phenomena; Specific heat; *J.71A3-450, 185-193 (1967). SP305.*

Thermodynamic properties; Amorphous polyethylene; Calorimetry; Crystalline polyethylene; Extended chain crystals; Glass transition temperature; Heat capacity; Linear polyethylene; Polyethylene; *J.78A No. 3, 387-400 (1974). SP305-6.*

Thermodynamic properties; Analytical partition function; Molecular parameters; Molecular size; Simple liquids; *9691. SP305-1.*

Thermodynamic properties; Annealed and quenched glass; Calorimetry; *cis*-1,4-polyisoprene; Glass transformation; Heat capacity; Natural rubber; Normal and supercooled liquid; Rubber, natural; Thermal diffusivity; *J.75A No. 2, 113-120 (1971). SP305-3.*

Thermodynamic properties; Annealed glass; Crystal; Diethyl malate; Glass transformation; Heat capacity calorimetry; Molecular configurational state; Normal and supercooled liquid; Quenched glass; *J.71A4-461, 293-305 (1967). SP305.*

Thermodynamic properties; Apparel fabric; Fabric; Fire hazard; Flammability testing; Thermal measurements; *NBS-GCR-73. SP305-8.*

Thermodynamic properties; Associated vapors; Graphite; Heat capacity; Molybdenum; Molybdenum pentafluoride; Niobium; Radiance temperature; Spectral emittance; Surface roughness; *NBSIR 73-280. SP305-6.*

Thermodynamic properties; Beryllium 1:3-aluminate; Enthalpy; Entropy; Gibbs energy; Heat capacity; Low temperature calorimetry; *J.71A1-429, 3-8 (1967). SP305.*

Thermodynamic properties; Beryllium aluminate; Chrysoberyl, drop calorimetry; Enthalpy measurements; High-temperature calorimetry; Mixed oxides; Specific heat; *J.71A2-438, 89-95 (1967). SP305.*

Thermodynamic properties; Beryllium aluminate (1:3); Drop calorimetry; Enthalpy measurements; High-temperature calorimetry; Mixed oxides; Specific heat; *J.71A2-439, 97-103 (1967). SP305.*

Thermodynamic properties; Beryllium nitride; Drop calorimetry; Enthalpy data; Light-element compounds; Refractory crystals; *J.73A No. 5, 471-477 (1969). SP305-1.*

Thermodynamic properties; Beryllium aluminate; Chrysoberyl; Drop calorimetry; Enthalpy measurements; High temperature calorimetry; Specific heat; *J. Res. 80A No. 1, 65-73 (1976). SP305-8.*

Thermodynamic properties;  $\beta$ -lithium hexafluoroaluminate; Calorimetry; Entropy; Heat capacity; *J.74A No. 5, 631-639 (1970). SP305-2.*

Thermodynamic properties; Branched polyethylene; Calorimetry; Glass transition; Heat capacity; Linear polyethylene; Polyethylene; Thermal analysis; *J.77A No. 4, 395-405 (1973). SP305-5.*

Thermodynamic properties; C atom reactions; Cyanogen azide; Electronic spectrum; Force constants; HCCI free radical; HCl reaction; Infrared spectrum; Matrix isolation; Monochlorocarbodiimide; Monochlorocyanamide; NCN reactions; Photolysis; *10275. SP305-1.*

Thermodynamic properties; Calorimetry; Copper; Debye theta ( $\theta$ ); Electronic coefficient of heat capacity; Enthalpy; Entropy; Gibbs energy; Gold; Heat capacity; Silver; Temperature scales; *NSRDS-NBS18. SP305-1.*

Thermodynamic properties; Calorimetry; Critically evaluated data; Debye temperature ( $\theta$ ); Electronic coefficient of heat capacity ( $\gamma$ ); Enthalpy; Entropy; Gibbs energy; Heat capacity; *J. Phys. Chem. Ref. Data 3, No. 1, 163-209 (1974). SP305-6.*

Thermodynamic properties; Calorimetric methods; Calorimetry; Drop calorimetry; *10908. SP305-2.*

Thermodynamic properties; C-N bond; Infrared spectrum; Isotopic substitution; Matrix isolation; Methyl azide; Methylenimine; Normal coordinate analysis; Photolysis; *15110. SP305-7.*

Thermodynamic properties; Chemical reactions; Combustion; Cryogenic fluid safety; Explosions; Fires; Fuels; Handling; Hydrogen; Oxidizers; Oxygen; Propellants; Safety information; *15154. SP305-7.*

Thermodynamic properties; CODATA compatible values; Enthalpies of formation; Entropy; Gibbs energy of formation; Selected thermodynamic values; *NBSIR 75-968. SP305-8.*

Thermodynamic properties; Coexistence curve; Critical point; Liquid-gas phase transition; Parametric form; Scaling; *12156. SP305-3.*

Thermodynamic properties; Compressed liquid; Enthalpy; Entropy; Internal energy; Oxygen; Saturated liquid; *J.73A No. 1, 25-36 (1969). SP305-1.*

Thermodynamic properties; Compressed liquid; Heat capacities; Liquid; Oxygen; Specific heats; *J.73A No. 1, 15-24 (1969). SP305-1.*

Thermodynamic properties; Computer algorithm; Psychrometrics; Saturated and unsaturated moist air; *BSS21. SP305-2.*

Thermodynamic properties; Constraints; Equation of state; Fluid; Least squares; Parameter estimation; *p-V-T*; Statistical weighting; *15132. SP305-7.*

Thermodynamic properties; Convergence temperature; Melting temperatures; Methyl surfaces; *n-paraffins; Polyethylene; *J.70A6-421, 481-486 (1966). SP305.**

- Thermodynamic properties; Critical point; Equation of state; Hydrogen; Parahydrogen; Specific heats; *J73A No. 6, 585-591 (1969)*. SP305-1.
- Thermodynamic properties; Cryogenics; Dilution refrigerator; Fermi-Dirac statistics; Heat exchangers; Helium-3; Helium-4; Liquid helium; Mixtures; Quantum fluid; *12553. SP305-4*.
- Thermodynamic properties; Cryogenics; Dilution refrigerator; Fermi-Dirac statistics; Heat exchangers; Helium-3; Helium-4; Liquid helium; Mixtures; Quantum fluid; *11981. SP305-3*.
- Thermodynamic properties; Cryogenics; Dilution refrigerator; Enthalpy; Entropy; Fermi-Dirac gas; Helium-3; Helium-4; Liquid; Mixtures; Osmotic pressure; Quantum fluid; Specific heat; *TN362. SP305*.
- Thermodynamic properties; Cryogenics; Heat transfer; Helium; Refrigeration; *14096. SP305-6*.
- Thermodynamic properties; Differential scanning calorimetry (DSC); Electronic and thermal coupling; Instrumental limitations; Supercooling; Theoretical model; Thermal analysis; *14824. SP305-7*.
- Thermodynamic properties; Drop calorimetry; Enthalpy data; Lithium beryllium fluoride; Lithium tetrafluoroborate; Premelting; *J73A No. 5, 479-485 (1969)*. SP305-1.
- Thermodynamic properties; DSC; Enthalpy; Glass transition; Heat capacity; Thermal analysis; *14324. SP305-6*.
- Thermodynamic properties; Elastic constants; Lattice dynamics; Lattice parameter changes; Single crystal ice; Speed of sound; *9383. SP305*.
- Thermodynamic properties; Enthalpy of formation; Entropy; Gibbs energy of formation; Heat of formation; Specific heat; *TN270-3. SP305-1*.
- Thermodynamic properties; Enthalpy of formation; Entropy; Gibbs energy of formation; Heat capacity; Heat of formation; *TN270-4. SP305-1*.
- Thermodynamic properties; Equation of state; Hydrogen; Parahydrogen; *PVT*-relations; *J71A3-452, 203-218 (1967)*. SP305.
- Thermodynamic properties; Existing property tables; IPTS-48; IPTS-68; Practical-scale differences; Temperature-scale conversion; *J73A No. 5, 451-470 (1969)*. SP305-1.
- Thermodynamic properties; Experimental thermodynamics; High-speed thermodynamic measurements; Shock wave techniques; Thermodynamic measurements; *10831. SP305-1*.
- Thermodynamic properties; Fluorine; Heats of vaporization; Saturation; Single-phase; *12619. SP305-4*.
- Thermodynamic properties; Force constants; H + NO reaction; HNO; Infrared spectrum; Matrix isolation; *13840. SP305-6*.
- Thermodynamic properties; Glass transition; Heat capacity; High molecular weight linear polyethylene; Polyethylene; Temperature drift; *J. Res. 80A No. 1, 51-57 (1976)*. SP305-8.
- Thermodynamic properties; Heat of fusion; High-temperature drop calorimetry; Lattice vacancies; Muriate of potash; Potassium chloride; Sylvite; *J78A No. 4, 515-529 (1974)*. SP305-6.
- Thermodynamic properties; Methane; Pressure-density-temperature relations; *13048. SP305-4*.
- Thermodynamic properties; Thermodynamics, rigid-rotor; Rigid-rotor, high temperatures; *9263. SP305*.
- Thermodynamic properties; Thermodynamics; Thermometry; Time; Vaporization correction; Adiabatic calorimetry; Calorimeters; Calorimetry; Cryoscopy; Cryostats; Curvature correction; Heat-leak correction; Low temperature calorimetry; Phase studies; *11189. SP305-2*.
- Thermodynamic properties; Thermodynamic surface; Ammonia; Correlation; Gas; Liquid; *NBSIR 75-770. SP305-7*.
- Thermodynamic properties; Three body forces; Methane; Molecular dynamics; Potential function; Specific heat; Statistical mechanical ensembles; *15310. SP305-7*.
- Thermodynamic properties; Three-parameter theorem; An; Molecular complexity; Molecular thermodynamics; Prigogine's cell theory; *9386. SP305*.
- Thermodynamic properties; Three-phase loci; Apparatus; Argon-methane data; Liquid-vapor; Low temperature; Phase equilibrium; Solid-vapor; *11735. SP305-2*.
- Thermodynamic properties; Transportation; Conservation; Cryoelectronics; Cryogenics; Cryopumping; Helium; Liquefaction; Magnets; Purification; Refrigeration; Storage; *Monogr. 111. SP305-1*.
- Thermodynamic properties; Transport properties; Bibliography; Equation of state; Low temperature; Mechanical properties; Methane; *TN367. SP305-1*.
- Thermodynamic properties; Transport properties; Air; Bibliography; Equation of state; Low temperature; Mechanical properties; *TN383. SP305-2*.
- Thermodynamic properties; Transport properties; Correlation; Equation of state; Excess function; Hydrogen; Interpolation methods; Least squares; Methane; *15731. SP305-8*.
- Thermodynamic properties; Trifluorosilane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Force constants; Infrared spectrum; Matrix isolation; SiF<sub>3</sub> free radical; *11. SP305-2*.
- Thermodynamic properties; Trigonal selenium; Annealed quenched glasses; Calorimetry; Glass transformation; Heat capacity; Selenium; Supercooled liquid; *14179. SP305-6*.
- Thermodynamic properties; Two-phase; Fluorine; Liquid-vapor coexistence; Saturated liquid; Saturation; Specific heat; *J74A No. 4, 499-505 (1970)*. SP305-2.
- Thermodynamic properties; Ultraviolet photolysis; Carbon; Production; Carbon atom reactions; Cyanogen azide; Force constants; Infrared spectrum; NCN free radical; *9369. SP305-1*.
- Thermodynamic properties; Ultraviolet spectrum; Carbon; Oxide photolysis; C atom reactions; C atom sources; C free radical; Cyanogen azide photolysis; Force constants; Infrared spectrum; Matrix isolation; NCN free radical; *9. SP305-1*.
- Thermodynamic properties; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Carbon atom reaction; CF; Force constants; HCF; H<sub>2</sub>CF; HF reaction; Infrared spectrum; Isotopic substitution; Matrix isolation; Methyl fluoride; *11341. SP305-2*.
- Thermodynamic properties; Vacuum; Vacuum measurements; Barium nitride; Dissociation equilibria; Nitrides; Nitrogen; *J74A No. 1, 45-49 (1970)*. SP305-2.
- Thermodynamic properties;  $\beta$ -lithium hexafluoroaluminate; Calorimetry; Entropy; Heat capacity; *J74A No. 5, 631 (1970)*. SP305-2.
- Thermodynamic properties; Vapor pressure; Activity coefficients; Aqueous; Computer programs; Data evaluation; Electrolytes; Electromotive force; Isopiestic method; Osmotic coefficients; Nonlinear least squares; *TN928. SP305-8*.
- Thermodynamic properties; Vapors; High temperature calorimetry; High temperatures; Kilodegree range; *10456. SP305*.
- Thermodynamic properties; Vapor pressure; Xenon; Chemical potential; Critical point parameters; Critical properties; Fluids; He<sup>4</sup>; Sealing laws; Specific heat; *J73A No. 6, 563 (1969)*. SP305-1.
- Thermodynamic properties; Vibrational analysis; Gas; Oxygen; Raman spectroscopy; *14009. SP305-6*.
- Thermodynamic properties; Visible-ultraviolet spectrum; Atom reactions; Force constants; HNF; HNF<sub>2</sub>; Infrared spectrum; Matrix isolation; NF; NF<sub>2</sub>; *9335. SP305*.
- Thermodynamic properties data; Transport properties; Critically evaluated data; Ethylene; Propylene; *NBSIR 76-763. SP305-7*.
- Thermodynamic properties of materials; Thermodynamic data; Evaluated data; Thermal functions; *NSRDS-NBS37. SP305-3*.

thermodynamic properties; triple point; Bromobenzene; Calorimetry; Enthalpy; Entropy; Gibbs energy; Heat capacity; Heat of fusion; Heat of vaporization; *J79A No. 5, 619-628 (1975). SP305-7.*

thermodynamic property computations; Calculated properties; Property of gases, saturated fluids, and liquids; Equations of state; Systems analysis; *9798. SP305-1.*

thermodynamic publications; Inorganic compounds; *14339. SP305-6.*

thermodynamic quantities; Bases; Dissociation constant; Emf measurements; Morpholine; Morpholinium ion; *9460. SP305.*

thermodynamic scaling; Critical region; Equation of state; Scaling laws; *12489. SP305-4.*

thermodynamic scaling; Critical region; Equation of state; Liquid-gas transition; Phase boundary; Phase transition; *ISA No. 2, 103-107 (1971). SP305-3.*

thermodynamic surface; Ammonia; Correlation; Gas; Liquid; Thermodynamic properties; *NBSIR 75-770. SP305-7.*

thermodynamic temperature; CMN; Entropy; Magnetic susceptibility; Magnetic temperature; *15634. SP305-7.*

thermodynamic temperature; Thermometer; Ammonia; Calorimetry; Flow calorimeter; Heat capacity; Ideal-gas temperature; *13639. SP305-5.*

thermodynamic temperature scale; Blackbody; Calorimeter; Point; Steam point; Stefan-Boltzmann law; *13592. SP305-5.*

thermodynamic temperature scale; Gas thermometer; Sorption; Steam point; *13588. SP305-5.*

thermodynamic Temperature Scale; Thermometry; Triple point; Calibration; Calibration errors; Cryostat; Fixed points; Freezing point; International Practical Temperature Scale; Platinum resistance thermometer; *Monogr. 126. SP305-5.*

thermodynamic temperature scales; Acoustical thermometry; Black-body radiation; Gas thermometry; Kirchhoff's law; Magnetic thermometry; "noise" thermometry; Nuclear resonance thermometry; Radiation thermometry; Temperature measurement; Temperature scales; *10613. SP305-1.*

thermodynamic temperatures; Gas thermometry; International Practical Temperature Scale of 1968; Temperature scale differences; *J. Res. 80A Nos. 5 and 6, 703-738 (1976). SP305-5.*

thermodynamic theory; Binary alloys; Diffusion; Diffusion coefficients; Kinetic theory; Onsager reciprocal relation; *580. SP305-1.*

thermodynamic treatments of the segregation of solute atoms; Stacking faults; Stacking-fault energy in binary alloys; *73. SP305-1.*

thermodynamic watt bulb temperature; Instrumentation-measurement; Metric psychrometric charts; Psychrometric charts; Psychrometric formula; Temperature for moist air and enthalpy; *9659. SP305-1.*

thermodynamic wet bulb temperature; Aspirating psychrometers; Dry- and wet-bulb psychrometers; Errors in psychrometric measurements; Psychrometric formulas; Thermocouple psychrometers; *12445. SP305-4.*

thermodynamic wet-bulb temperature; Vapor content; Wet-bulb; Adiabatic saturation; Gas mixtures; Humidity; Psychrometer; Mixing ratio; Moist gas; Psychrometer; Psychrometric factor; Saturation; *J72C No. 1, 33-47 (1968). SP305-1.*

thermodynamics; Acid-base equilibria; Aminopyridine; Dissociation constant; Electrolytic dissociation; Methanol-water systems; *9493. SP305.*

thermodynamics; Acidity; Analytical chemistry; Conductance; Deuterium oxide; Dissociation processes; Electrochemistry; Electrolytes; Emf; Indicators; Isopiestic; Vapor pressure; Ethanol-water solvents; *TN400. SP305.*

thermodynamics; Acidity; Bis-tris; 2,2-bis(hydroxymethyl)-2,2'-nitritoltriethanol; Buffer solutions; Dissociation constant; Ionization constant; PH; PK; *11602. SP305-2.*

Thermodynamics; Acidity; Deuteriophosphoric acid; Deuterium oxide; Dissociation constant; Emf measurements; Isotope effects; Phosphoric acid; PK; *11601. SP305-2.*

Thermodynamics; Acidity; Ion activity; Medium effect; Nonaqueous solvents; PH; *11249. SP305-2.*

Thermodynamics; Actinide oxides; Actinide sesquioxides; Americium oxides; Berkelium oxides; Curium oxides; Melting points of actinide oxides; Nonstoichiometry; Oxides; *SP364, pp. 319-330. SP305-4.*

Thermodynamics; Activity coefficients; Emf measurements; Enthalpy; Entropy; Ethanol-water solvents; Hydrochloric acid; *11086. SP305-2.*

Thermodynamics; Adenosine 5'-triphosphate; Biochemistry; Coupled equilibrium; Enzyme catalyzed reactions; Glucose; Heat measurement; Hexokinase; Magnesium; Metabolic processes; Microcalorimetry; Thermochemistry; *16385. SP305-8.*

Thermodynamics; Adenosine-5'-triphosphate; Biochemistry; Enzyme catalyzed reactions; Glucose; Heat measurements; hexokinase; Metabolic processes; Microcalorimetry; Thermochemistry; *15174. SP305-7.*

Thermodynamics; Adiabatic calorimetry; Calorimeter; Calorimetry; Cryoscopy; Melting; Phase transition; Purity; *11188. SP305-2.*

Thermodynamics; Alkali-silicates; Glass; Immiscibility; Lithium-silicate binary; Melts; Miscibility gaps; Sodium-silicate binary; *14306. SP305-6.*

Thermodynamics; Automobile; Break-even analysis; Conservation; Cooling; Economics; Energy; Environment; Fuel; Heating; Imports; Industry; Management; Manufacturing; Paper; Petroleum; Resources; Standards; Steel; Thermal; *SP403. SP305-8.*

Thermodynamics; Beryllium oxide; Calorimetry; Chemical propulsion; Equilibrium; Estimates; *9301. SP305.*

Thermodynamics; Bibliography; Biochemistry; Biology; Data compilations; Thermochemistry; *NBSIR 74-535. SP305-6.*

Thermodynamics; Binary liquid mixtures; Critical opalescence; Critical phenomena; Critical point; Critical region; Equilibrium critical phenomena; Gases; Liquids; Liquid-vapor systems; Phase transitions; Ternary liquid mixtures; *SP327. SP305-2.*

Thermodynamics; Bulk; Chain fold; Crystallization; Fluctuation; Growth; Heat of melting; Homogeneous nucleation; Kinetics; Lamella thickness; Melt; Melting point; Nucleation; Polymer; Solution; Surface free energy; Theory; *11329. SP305-2.*

Thermodynamics; Calorimetry; Laser calorimetry; Lasers; *11841. SP305-3.*

Thermodynamics; Cells; Emfs; Free energies of formation; Fused salts; Halides; *11526. SP305-2.*

Thermodynamics; Characteristic function (Planck); Chemical bonding energy; Double helix; Heat integrals; Molecular biology; Thermal free energy; *13729. SP305-5.*

Thermodynamics; Chemical kinetics; Diffusion flames; Flame extinction; Flame temperature; Flame velocity; Flammability; Flammability limits; Oxygen index test; *NBSIR 76-1076. SP305-8.*

Thermodynamics; CODATA; Key values; *J75A No. 2, 97-101 (1971). SP305-3.*

Thermodynamics; Complex molecules; Mass spectrometry; Molten salt halides; *12280. SP305-3.*

Thermodynamics; Compressibility factors; Equation of state; High density; High temperature; Pairwise potentials; Redlich Kwong; Second virial coefficient; *11887. SP305-3.*

Thermodynamics; Computer simulation; Electrochemistry; Ionic activities; Liquid junction potentials; *12842. SP305-4.*

Thermodynamics; Critical phenomena; Divergences at critical points; Free energy surface; Geometry of thermodynamic surfaces; *15150. SP305-7.*

Thermodynamics; Dislocation; Multiaxial; Plasticity; *14979. SP305-7.*

- Thermodynamics; Dissociation; Electrolytes; Methanol; *m*-nitrophenol; Nonaqueous solvents; Phenols; *J71A1-430, 9-12* (1967). SP305-5.
- Thermodynamics; Dissociation constant; Ionization constant; Methanol; Mixed solvents; Piperazine; PK; *J74A No. 5, 667-671* (1970). SP305-2.
- Thermodynamics; Electrical resistivity; Emittance; High-speed measurements; High temperature; Niobium-zirconium alloy; Specific heat; *J77A No. 1, 45-48* (1973). SP305-5.
- Thermodynamics; Electrical resistivity; High-speed methods; High temperature; Melting point; Metals; Molybdenum; Pre-melting; *1223.1*. SP305-3.
- Thermodynamics; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Niobium; Thermal radiation properties; *J75A No. 6, 565-571* (1971). SP305-3.
- Thermodynamics; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Tantalum; Thermal radiation properties; *J75A No. 1, 1-13* (1971). SP305-3.
- Thermodynamics; Electrical resistivity; Emittance; High-speed measurements; High temperature; Refractory alloy; Specific heat; *14504*. SP305-6.
- Thermodynamics; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Molybdenum; Thermal radiation properties; *J74A No. 1, 65-92* (1970). SP305-2.
- Thermodynamics; Electrical resistivity; Graphite; Heat capacity; High-speed measurements; High temperature; Thermal emittance; *15108*. SP305-7.
- Thermodynamics; Electrical resistivity; Emittance; Hafnium; High-speed measurements; High temperatures; Specific heat; *J79A No. 2, 431-436* (1975). SP305-7.
- Thermodynamics; Energy; Heating systems; Model; *SP403*, pp. 57-64 (June 1976). SP305-8.
- Thermodynamics; Equation of state; Helium; Hydrodynamics; Near-critical flow; Refrigeration; Superconductors; *NBSIR 73-331*. SP305-6.
- Thermodynamics; Evaluated data; Liquid-vapor equilibria; Methane-*n*-pentane system; *n*-pentane; *NSRDS-NBS32*. SP305-2.
- Thermodynamics; Evaluated data; Thermal functions; Thermodynamic properties of materials; *NSRDS-NBS37*. SP305-3.
- Thermodynamics; Excluded volume; Lattice; Monte Carlo; Polymers; Random walks; *11218*. SP305-2.
- Thermodynamics; Graphite; Heat capacity; High-speed measurements; Specific heat; *13615*. SP305-5.
- Thermodynamics; Heat capacity; High-speed measurements; High temperature; Tantalum; *11871*. SP305-3.
- Thermodynamics; High-speed measurement; High temperature; Iron; Phase transformation; *15623*. SP305-7.
- Thermodynamics; Inorganic oxyanions; Thermal decomposition; *13850*. SP305-6.
- Thermodynamics; Lennard-Jones gas;  $m-6$  intermolecular potential; Quantum corrections; Second virial coefficient; Statistical mechanics; *J75A No. 1, 57-89* (1971). SP305-3.
- Thermodynamics; Review articles; Water pollution; Aqueous systems; Bibliography; Biochemical systems; Enthalpy data; Entropy data; Equilibrium data; Gibbs energy data; Heat capacity data; Partial molal properties; Thermochemistry; *SP454*. SP305-8.
- Thermodynamics; Thermometry; Time; Vaporization correction; Adiabatic calorimetry; Calorimeters; Calorimetry; Cryoscopy; Cryostats; Curvature correction; Heat-leak correction; Low temperature calorimetry; Phase studies; Phase transitions; Power; *11189*. SP305-2.
- Thermodynamics; Thermophysical properties; High-speed measurements; High temperature; *12488*. SP305-4.
- Thermodynamics; Thermophysical properties; High-speed measurement methods; High temperatures; *12028*. SP305-3.
- Thermodynamics; Thermophysical properties; High-speed measurements; High temperatures; *J75C No. 1, 7-18* (1970). SP305-3.
- Thermodynamics; Thermophysical properties; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Iron; Melting point; Phase transformation; *J78A No. 1, 1-4* (1974). SP305-6.
- Thermodynamics; Thermophysical properties; Zirconium; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; *J78A No. 4, 509-514* (1974). SP305-6.
- Thermodynamics; Thermophysical properties; High-speed measurements; High temperature; Specific heat; *11727*. SP305-7.
- Thermodynamics; Thermophysical properties; High-speed measurements; High temperature; Pulse calorimetry; *15108*. SP305-7.
- Thermodynamics; Thermophysics; Capacitor discharges; High-speed measurements; High temperatures; *14934*. SP305-7.
- Thermodynamics; Thermophysics; Vanadium; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; *J78A No. 2, 143-147* (1974). SP305-6.
- Thermodynamics; Transport properties; Argon; Kinetic theory; Phase studies; Potential functions; Special functions; *91047*. SP305-1.
- Thermodynamics; Transposed critical line; Helium; Hydrodynamics; One dimensional flow; Single phase flow; *15047*. SP305-7.
- Thermodynamics; Tungsten; Electrical resistivity; High-speed measurements; High temperature; Melting point; *12028*. SP305-4.
- Thermodynamics; Tungsten; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Thermal radiation properties; *J75A No. 4, 283-290* (1971). SP305-3.
- Thermodynamics; Tungsten bronze; Crystal growth; Electrocatalysis; Nonstoichiometry; Reaction mechanisms; *SP364*, pp. 62. SP305-4.
- Thermodynamics; Uranium dioxide; Capacitor discharges; Heat capacity; High-speed measurements; High temperature; *NBSIR 75-793*. SP305-7.
- Thermodynamics; Viscoelasticity; Constitutive equation; Continuum mechanics; Elasticity; Isotropy; Material symmetry; Mechanical properties; Rheology; Scalar-potential; Stress; energy; *14689*. SP305-6.
- Thermodynamics; Viscoelasticity; Creep; Dissipation; Elevated temperature; Energy; Hold-time; Hysteresis; Low-temperature fatigue; Plasticity; Stainless steel; Stress relaxation; *16108*. SP305-8.
- Thermodynamics; Viscoelasticity; Yielding; Anisotropy; Continuum mechanics; Entropy; Irreversibility; Nonequilibrium state; Nonlinear theory; Plasticity; *12948*. SP305-4.
- Thermodynamics; Warfarin; Adenosinetriphosphate; Thermodynamics; Chemical bond energy; Coiled helix; Homopolymers; Drug receptor complexing; Entropy; Enzyme denaturation + analysis; Equilibrium; Free energy; Free entropy; Heat of reaction; *13730*. SP305-5.
- Thermodynamics; Weak electrolytes; Acetic acid-*d*<sub>4</sub>; Acid-base; Deuterium oxide; Dissociation constants; Emf; Ionization isotope effects; *9492*. SP305.
- Thermodynamics; Weighting; Constraints; Curve fitting; Linear squares; Non-linear; *10259*. SP305-1.
- Thermodynamics; Young's mixture rule; Electrolytes; Thermodynamic properties of mixtures; Mixture; Ternary solutions; *14515*. SP305-6.



odynamics; Zirconium; Electrical resistivity; High-speed measurements; High temperature; Solid-solid phase transition; *J79A No. 1, 81-84 (1975). SP305-7.*

odynamics and dislocation motion; Constitutive relations; Titanium mechanics; Dislocation kinematics; Dislocations; Intermetallics; *SP317, pp. 1041-1052. SP305-3.*

odynamics and expansions; Bulk modulus; Dislocations thermodynamics; Entropy; Specific heat; Thermal expansion; *SP317, pp. 1223-1225. SP305-3.*

odynamics of dissociation; Acidic dissociation; Bicarbonate ion; Carbonic acid; Deuteriocarbonate ion; Deuterium; Dissociation of acids; EMF measurements; Heavy metals; Isotope effects; *11418. SP305-2.*

odynamics of dissociation; Weak acids; Acetic acid-d<sub>3</sub>; Association constant; Isotope effects; *9976. SP305-1.*

odynamics of ionization; Acid-base equilibria; Dissociation constant; Electrolyte; Ionization; Piperazine; Piperazinone; *10655. SP305-1.*

odynamics of liquids; Evaluated data; Liquids; Surface tension; *J. Phys. Chem. Ref. Data 1, No. 4, 841-1010 (1972). 05-6.*

odynamics of mixture; Electrolyte solutions; Ionic conductivity; Structure of solutions; *14914. SP305-7.*

odynamics of molten salts; Critically evaluated data; Equilibrium electrochemical cells; Excess entropies; Excess free energies; Gibbs free energies; Molten salt mixtures; Molten salts; Surface tension; *NSRDS-NBS28. SP305-6.*

odynamics of phase changes; Critical phenomena in liquid vapor systems; Liquid vapor systems; Statistical mechanics; *9755. SP305-1.*

odynamics of rubber elasticity; Cross-linking of rubber; Amyl peroxide; Elasticity theory of rubber; Entropy content; Gel point; Modulus of rubber; Rubber elasticity; Statistical theory of rubber elasticity; *J77A No. 1, 171-177 (1973). SP305-5.*

odynamics of solutions; Glass; Immiscibility; Phase diagrams; *J78A No. 1, 53-59 (1974). SP305-6.*

odynamics of standard cells; EMFs of standard cells; EMF-temperature coefficients of standard cells; Standard potential of standard cells; *J76A No. 3, 185-205 (1972). SP305-6.*

odynamics, rigid-rotor; Rigid-rotor, high temperatures; Thermodynamic properties; *9263. SP305.*

oeleastic; Transverse; Longitudinal; Polyethylene terephthalate; Polypyromellitimide; Relative creep; *12165. 005-3.*

oelelastic coupling; Continuum theory of diffusion; Diffusion; Kinetic theory; Molecular dynamics; Numerical simulation; Perfect lattice; Thermal conductivity; Thermal diffusivity; *16281. SP305-8.*

oelelastic theory; Antimony; Heat conduction; Laser materials; Nd-doped glass; Platinum; Stress components; *5A No. 4, 247-260 (1971). SP305-3.*

oelelastic theory; Antimony; Heat conduction; Laser materials; Nd-doped glass; Platinum; Stress components; *133. SP305-3.*

oelelectric; Connector; Electromotive force; Oil baths; Standard cells; *TN353. SP305.*

oelelectric; Cryogenic tests; Impurity characterization; Materials; *10434. SP305-1.*

oelelectric heat pump; Water vapor condensation; Accelerated corrosion; Atmospheric corrosion; Corrosion mechanisms; Humidity cabinet; Laboratory corrosion apparatus; Photomicrography; Reflectometry; Sulfur dioxide; *90. SP305-1.*

oelelectric power; Band structure; Properties of semiconductors; Semiconductors; *16161. SP305-8.*

Thermoelectric power; Transition metal; Transport properties; Tungsten (W); Chromium; Electronic density of states; Iridium; Low-temperature specific heat; Magnetic susceptibility; Molybdenum; Niobium; Palladium (Pd); Platinum; *SP323, pp. 685-690. SP305-4.*

Thermoelectric properties; Cryogenics; Dipping; Evaluation; Heterogeneity; Liquid helium; Liquid nitrogen; Low temperature tests; Seebeck effect; Temperature measurement; Thermocouples; *12623. SP305-4.*

Thermoelectric properties; Cryogenics; Dipping; Evaluation; Heterogeneity; Liquid helium; Liquid nitrogen; Low temperature tests; Seebeck effect; Temperature measurement; *12975. SP305-4.*

Thermoelectric reference data; Thermometry; Calibration; Nickel-base alloys; Nickel-chromium alloys; Nickel-silicon alloys; Reference tables; Temperature measurements; Thermal emf; Thermocouples; *15518. SP305-7.*

Thermoelectric stability; Aging; Calibration change; Gradient; High temperature (700 to 2000 °C); Iridium; Iridium-rhodium alloy; Noble-metal thermocouple; Oxidation; Platinum; Platinum-rhodium alloy; Preferential oxidation; Temperature gradient; Thermal gradient; *16158. SP305-8.*

Thermoelectric thermometry; Acoustical thermometry; Cerous magnesium nitrate thermometer; Error analysis; Liquid-in-glass thermometry; Reprints; Resistance thermometry; Spectroscopic thermometry; Standards; Temperature scales; *SP300, Volume 2. SP305-1.*

Thermoelectric thermometry; Thermometer; Vasodilation; Warm sensitive neurons; Anesthesiology; Brain temperature; Carotid artery; Clinical medicine; Cold stress (diver); Disposable thermometry; Esophageal thermometer; Fever; Fulminant hyperpyrexia; *13631. SP305-5.*

Thermoelement; Transfer standard; AC; Calibration; DC; Intercomparison; *10107. SP305-1.*

Thermoelement; Transfer standard; AC; Calibration; DC; Intercomparison; *11170. SP305-2.*

Thermoelement; Transfer voltmeter; Voltage converter; EMF comparator; Frequency compensation; Temperature compensation; *11200. SP305-2.*

Thermoelement; Transfer voltmeter, voltage measurements; AC-DC difference; Comparator; *J75C Nos. 3 and 4, 145-153 (1971). SP305-3.*

Thermoelement power; Alkali metals; Alloys; Cesium; Knight shift; Lithium; Potassium; Pressure dependences; Pseudopotential; Resistivity ratios; Rubidium; Sodium; *SP323, pp. 651-657. SP305-4.*

Thermoelements; Sensor; Ultra high vacuum; W-Re alloys; EMF-temperature relationship; Furnace; High temperature; Refractory metals; Thermocouple; *J75C No. 2, 99-106 (1971). SP305-3.*

Thermoelements; Thermometry; Base metals alloys; Noble metal alloys; Temperature scale; Temperature standards; *Monogr. 125, Suppl. 1. SP305-7.*

Thermoelements; Transfer standards; Voltage comparator; Voltage measurements; Audio-frequency; Comparator; Standards; Thermal convectors; *9782. SP305-1.*

Thermofunctions for ideal gas states; Thermophysical properties; Heats of vaporization; Methane; Orthobaric densities; Specific heats of the saturated liquid; *J75A No. 1, 15-21 (1971). SP305-3.*

Thermographic measurements; Transistor screening; Current constriction; DC current gain; Hot-spot screening; Methods of measurement; Power transistors; Reliability; Thermal hysteresis; Thermal resistance; *12474. SP305-4.*

Thermographic measurements; Ultrasonic bond; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN717. SP305-4.*

- Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN727, SP305-4*.
- Thermographic measurements; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Infrared response; *TN733, SP305-4*.
- Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN702, SP305-3*.
- Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; *TN560, SP305-3*.
- Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN571, SP305-3*.
- Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN592, SP305-3*.
- Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; *TN598, SP305-3*.
- Thermographic measurements; Ultrasonic microphone; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; *TN520, SP305-2*.
- Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; Gold-doped silicon; Metallization; Methods of measurement; *TN527, SP305-2*.
- Thermographic measurements; Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; *TN555, SP305-2*.
- Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; *TN475, SP305-1*.
- Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; Microelectronics; Nuclear radiation detectors; *TN488, SP305-1*.
- Thermographic measurements; Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; Microelectronics; Nuclear radiation detectors; *TN495, SP305-1*.
- Thermographic phosphor; Transistor-chip temperature; Surface temperature; Temperature measurement; Temperature-sensitive phosphor; *TN591, SP305-3*.
- Thermographic surveys; Thermography; Energy conservation; Energy surveys; Infrared; Nondestructive evaluation; *T, SP305-8*.
- Thermography; Energy conservation; Energy surveys; Infrared; Nondestructive evaluation; Thermographic surveys; *T, SP305-8*.
- Thermogravimetric analysis; Alum; Aluminum; Apparent activation energy; Calcium; Cellulose; Crosslinking; Differential thermal analysis; Ion exchange; Organic acid; Oxycellulose; Stability; Sulfuric acid; *12218, SP305-3*.
- Thermogravimetric analysis; Applied nonisothermal kinetic Generalized techniques; Historical review; Isothermal; Isoconversional and isokinetic methods; Kinetic parameters; *12356, SP305-3*.
- Thermogravimetric analysis; Carbon black; Curable Elastomer compounds and vulcanizates; Oxidation; *5, pp. 165-185, SP305-2*.
- Thermogravimetric analysis; Cellulose; Cotton; DAP; Inflammability; Flame retardants; Flammability; Rayon; *5, pp. 50-58, SP305-6*.
- Thermogravimetric analysis; Coordination; Infrared spectroscopy; Magnetic susceptibility; Mössbauer spectroscopy;  $M_2FeDTPA$ ; Photodecomposition; Preparation; *1, SP305-1*.
- Thermogravimetric analysis; Coordination studies; Hydroxyethylendiaminetetraacetate (III) infrared spectroscopy; Magnetic susceptibility;  $MFe(OH_2)EDTA$ ; Mössbauer spectroscopy; Photodecomposition; *1, SP305-1*.
- Thermogravimetric analysis; Differential thermal analysis; Kinetics; Pyrolysis; TGA; Thermal analysis; Thermal degradation; *13926, SP305-6*.
- Thermogravimetric analysis; Differential thermal analysis; Kinetics; Pyrolysis; TGA; Thermal analysis; Thermal degradation; *SP338, pp. 137-150, SP305-2*.
- Thermogravimetric analysis; Differential thermal analysis; Kinetics; Pyrolysis; TGA; Thermal analysis; Thermal degradation; *15292, SP305-7*.
- Thermogravimetric analysis; Variation of the activation energy; Calculation of kinetic parameters; Determination of activation energies; Preexponential factor; Stability of polymers; *9192, SP305*.
- Thermogravimetric analysis; Wood pulp; Aluminum; Calcium Carboxylic acid; Cellulose; Differential thermal analysis; micellulose; Ion exchange; PH; Pyrolysis; Thermal stability; *13109, SP305-5*.
- Thermogravimetric analysis (TGA); Thermoplastic; Chlorinated polyvinyl chloride; Hardness; Internal stress; Polyvinyl chloride; Thermal mechanical analysis (TMA); Thermal properties; *NBSIR 74-610, SP305-7*.
- Thermogravimetric variation of heating rates; Activation energy; Applied kinetic analysis; Determination of kinetic parameters; Non-isothermal kinetics; *9713, SP305-1*.
- Thermogravimetry;  $\alpha$ - and  $\beta$ - $CaSO_4 \cdot 1/2H_2O$ ;  $CaSO_4$ ; Differential scanning calorimetry; Differential thermal analysis; *J.76A No. 1, 41-49 (1972), SP305-4*.
- Thermogravimetry; Dissociation; Entropy; Equilibrium; Heat reaction; Intermediate oxides; Irreversibility; Lead oxide; Oxygen pressures; *9975, SP305-1*.
- Thermogravimetry; Energy of activation; Initial kinetic parameters; Non-isothermal kinetics; Polyethylene; Polymer degradation; Stability of polymers; *9451, SP305*.
- Thermogravimetry; Thermolysis; Stability of polymers; Degradation; Nonisothermal kinetics; Polymers; Pyrolysis; Thermal decomposition; *J.70A6-422, 487-523 (1970), SP305*.
- Thermogravimetry; Weight-loss; Degradation; Kinetics; Cation; Parameter jump method; Polystyrene; Relationship; *15858, SP305-8*.

luminescence; Annealing; F centers;  $^{60}\text{Co}$  gamma-ray irradiation; LiF (TLD grade) plaques; Readout; 14322. SP305-5.

luminescence; Thin foils;  $^{60}\text{Co}$  gamma radiation;  $\text{Fe-Mn}$ ; Electrons, 20 to 400 keV; Energy dependence; Energy response; Response per unit electron energy absorbed; Sample-thickness dependence; 10923. SP305-2.

luminescence; Track-etch; Films; Images; Neutron radiography; Nondestructive tests; Real-time imaging; 15796. SP305-8.

luminescence; Trap formation; Bremsstrahlung;  $\text{Co}^{60}$  isotopes; Energy dependence; F centers; Impurities; LiF (D); Rate dependence; Superlinearity; 10921. SP305-2.

luminescence;  $^{60}\text{Co}$  gamma radiation; F-center formation; LiF (TLD grade); Rate dependence; 10918. SP305-2.

luminescence dosimeters; Uncertainty; Water phantom; Absorbed dose; Cobalt-60 gamma radiation; Computation; Dose interpretation; Mailings; Results; Therapy determinants; *J. Res.* 80A No. 4, 663-668 (1976). SP305-8.

luminescent detectors; 30 and 57.4 MeV electrons; Angular distribution; Depth-dose; Photon energy; Ta target; 140. SP305-6.

luminescence; 15 MeV electrons;  $^{60}\text{Co}$  gamma rays; Absorbed dose;  $\text{CaF}_2\text{:Dy}$ ; Dosimeters; LiF; Response; 12833. SP305-4.

polymer; Anionic polystyrene; Molecular weight distributions; Molecular weights; Thermal polystyrene; Polymers; Polystyrene degradation; Pyrolysis; *J.77A No. 1, 157-170* (73). SP305-5.

polymer; Stability of polymers; Degradation; Nonisothermal effects; Polymers; Pyrolysis; Thermal decomposition; Thermogravimetry; *J.70A6-422, 487-523* (1966). SP305.

polymeric chain scission; Copolymer; Ethylene-propylene; Linear polyethylene; Stress relaxation; 9264. SP305.

ferromagnetism; Galvanomagnetism; Quantum transport theory; Semiconductors; 15525. SP305-7.

ferromechanical treatment; Cavities; Cellular solidification; Institutional supercooling; Copper (99.999%); Dislocation arrangements; Distribution of impurities; Precipitate particles; 139. SP305-3.

thermometer; Ammonia; Calorimetry; Flow calorimeter; Heat capacity; Ideal-gas; Temperature; Thermodynamic temperature; 13639. SP305-5.

thermometer; Bearings; Bolometer; Electron microscope; Helium; Hydrogen; Level gauging; Liquid level; Magnet; Motor; Pump; Rectifier; Solenoid; Superconductivity; Switch; Temperature; 9715. SP305-1.

thermometer; Capacitor; Depolarization; Dielectric; Dilution refrigerator; Glass ceramic; Phase transition; Strontium titanate; 12368. SP305-3.

thermometer; Carbon; Germanium; Pressure effect; 10741. SP305-1.

thermometer; Thermometer leads; Thermostated bath; Vacuum; Water tight; Bridge; Deep-sea thermometer; High pressure; Oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure seal; Pressure vessel; Resistance; Resistance thermometer; *TN894*. SP305-8.

thermometer; Time constant; Cryogenic; Instrumentation; Measurement; Metrology; Response time; Sensor; Temperature; 9944. SP305-1.

thermometer; Vasodilation; Warm sensitive neurons; Anesthesia; Brain temperature; Carotid artery; Clinical medicine; Cold stress (diver); Disposable thermometer; Esophageal thermometer; Fever; Fulminant hyperpyrexia; Heart temperature; 13631. SP305-5.

thermometer;  $^{60}\text{Co}$ ; Gamma rays; Josephson junction; Noise thermometer; 15166. SP305-7.

Thermometer calibration; Thermometer production; Thermometry; Measurement accuracy; National temperature measurement system; Temperature scale; 15060. SP305-7.

Thermometer leads; Thermostated bath; Vacuum; Water tight; Bridge; Deep-sea thermometer; High pressure; Oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure seal; Pressure vessel; Resistance; Resistance thermometer; Test; *TN894*. SP305-8.

Thermometer production; Thermometry; Measurement accuracy; National temperature measurement system; Temperature scale; Thermometer calibration; 15060. SP305-7.

Thermometer scale; Cerous magnesium nitrate; Dipole system; Low temperature; Paramagnetic salt; Specific heat; Susceptibility; 11822. SP305-3.

Thermometers; Air in ducts; Measurement errors; Temperature measurement; Thermistors; Thermocouples; 10632. SP305-1.

Thermometers; Clinical laboratory; Enzymology; Health care; Standard reference material; SRM 933; SRM 934; 14311. SP305-6.

Thermometers; Clinical laboratory; Enzymology; Health care; Liquid-in-glass thermometers; Standard reference material; SRM 933; SRM 934; *SP260-48*. SP305-6.

Thermometers; Cooling system; Cryogenics; Helium-cooled electrical leads; Helium impurities; Microwave cavities; Negative differential flow resistance; Pressure measurement; System dynamics; *NBSIR 75-823*. SP305-7.

Thermometers; Dilution refrigerator; Low temperature; Magnetic ordering; Nuclear quadrupole resonance; Nuclear resonance; 11381. SP305-2.

Thermometers, self-registering, clinical; Clinical thermometers; Glass thermometers, clinical; Mercury-in-glass thermometers; *PS39-70*. SP305-3.

Thermometric fixed point; Ac susceptibility; Superconductivity; Temperature; 13338. SP305-6.

Thermometric fixed point; OSRM; Pure cadmium; Superconductive transition temperature; Superconductive transition width; 15342. SP305-7.

Thermometric fixed point; Transition temperature; Carbon resistance thermometer; Electrical resistance; Heat capacity; Indium; Magnetic susceptibility; Superconductivity; 12889. SP305-4.

Thermometric fixed point; Transition temperature; Transition widths; Cryogenics; Pure cadmium; Reproducibility; Superconductivity; 14530. SP305-6.

Thermometric fixed points; Antiferromagnetism; Ferroelectricity; Solid-state transitions; Superconducting temperature calibration; 15353. SP305-7.

Thermometric fixed points; Blackbodies; Calibrations; Optical pyrometer; Platinum resistance thermometer; Platinum-rhodium vs platinum thermocouples; Reference tables; 13577. SP305-5.

Thermometric fixed points; Calibration techniques; Cryogenic temperature scale; OSRM; Pure elements; Superconductivity; 12988. SP305-4.

Thermometric fixed points; Superconductive transition temperatures; Superconductivity; Temperature; 15052. SP305-7.

Thermometric fixed points; Zinc; Aluminum; Cadmium; Cryogenics; Indium; Lead; Magnetic susceptibility; Superconductive transition temperature; Superconductivity; *SP260-44*. SP305-4.

Thermometry; Absolute temperature; Thermal noise; 13587. SP305-5.

Thermometry; Annual report; Calibrations; Progress report; Standards; Temperature scale; *TN869*. SP305-7.

Thermometry; Applications; Material detection; Nuclear quadrupole resonance; Piezometry; 15475. SP305-7.

Thermometry; Automatic calorimetry; Calorimetry; Heat capacity; Mueller bridge; 11310. SP305-2.

- Thermometry; Automatic potentiometry; Automation; Calorimetry; Dieselhorst ring; Potentiometer; Programmable potentiometer; Self-balancing potentiometers; *J. Res.* **80A** No. 4, 669-675 (July-Aug. 1976). **SP305-8.**
- Thermometry; Base metal alloys; Noble metal alloys; Temperature scale; Temperature standards; Thermocouples; *Monogr.* **125.** **SP305-6.**
- Thermometry; Base metals alloys; Noble metal alloys; Temperature scale; Temperature standards; Thermoelements; *Monogr.* **125.** *Suppl. 1.* **SP305-7.**
- Thermometry; Base-metal thermocouples; Cryogenic thermocouples; Noble-metal thermocouples; Nonstandardized thermocouples; Refractory metal thermocouples; Standardization; Temperature measurement; Thermocouples; **15517.** **SP305-7.**
- Thermometry; Blood banking; Bone cement; Clinical lab; Clinical SRM's; Dental research; Health research; Implant materials; Lead paint poisoning; MUMPS; Protein adsorption; *DIM/NBS* **58**, No. 5, 97-120 (1974). **SP305-6.**
- Thermometry; Burn hazard; Consumer products; Contact temperature; Thermesthesiometer; **15285.** **SP305-7.**
- Thermometry; Calibration; Nickel-base alloys; Nickel-chromium alloys; Nickel-silicon alloys; Reference tables; Temperature measurements; Thermal emf; Thermocouples; Thermoelectric reference data; **15518.** **SP305-7.**
- Thermometry; Calibration of germanium resistors; Germanium resistors; *J.71C1-441*, 29-41 (1967). **SP305.**
- Thermometry; Carbon resistors; Cryogenics; Liquid helium; Millikelvin; **15537.** **SP305-7.**
- Thermometry; Cerous magnesium nitrate; Low temperature; Magnetic temperature; Temperature scale; **13578.** **SP305-5.**
- Thermometry; CMN; Low temperature; Paramagnetic susceptibility; **10990.** **SP305-2.**
- Thermometry; Conference; Temperature; **15179.** **SP305-7.**
- Thermometry; Consumer products; Contact temperature; Thermesthesiometer; **17816.** **SP305-6.**
- Thermometry; Consumer products; Contact temperature; Thermesthesiometer; **15303.** **SP305-7.**
- Thermometry; Critical magnetic field; Heat capacity; Josephson junctions; Noise thermometry; Superconductive fixed points; Superconductivity; **13540.** **SP305-5.**
- Thermometry; Cryogenics; Thermocouples; **13603.** **SP305-5.**
- Thermometry; Cryogenics; Thermocouples; **10082.** **SP305-1.**
- Thermometry; Cryothermometry; Low temperature; **15127.** **SP305-7.**
- Thermometry; Data; International Practical Temperature Scale; Measurements; National Measurement System; Standards; *NBSIR* **75-932.** **SP305-8.**
- Thermometry; Fluidic thermometers; Pyrometry; Radiation pyrometry; Temperature measurement; Thermistors; Thermocouple; **SP373.** **SP305-4.**
- Thermometry; Germanium resistors; Germanium resistor reproducibility; Low temperature thermometry; Reproducibility of germanium resistors; Thermal cycling at low temperature; *J.70C4-235*, 245-254 (1966). **SP305.**
- Thermometry; Josephson effect; Linewidth; Millidegree; Noise; Superconductivity; **10376.** **SP305-1.**
- Thermometry; Josephson effect; Noise; Superconductivity; **12159.** **SP305-3.**
- Thermometry; Measurement accuracy; National temperature measurement system; Temperature scale; Thermometer calibration; Thermometer production; **15060.** **SP305-7.**
- Thermometry; Temperature; Temperature measurement; **10885.** **SP305-2.**
- Thermometry; Temperature; Temperature scales; **11503.** **SP305-2.**
- Thermometry; Temperature scales; Thermocouples; **12984.** **SP305-4.**
- Thermometry; Thermocouples; Thermistors; Resistance thermometer; Radiation pyrometry; Temperature; *Mono.* **27.** *Supplement 2.* **SP305.**
- Thermometry; Thermometry fixed points; Electrical resistivity; IPTS-68; Temperature scale; Thermal emf of elements; Thermocouple tables; **13110.** **SP305-5.**
- Thermometry; Time; Vaporization correction; Adiabatic calorimetry; Calorimeters; Calorimetry; Cryoscopy; Cryogenic Curvature correction; Heat-leak correction; Low temperature calorimetry; Phase studies; Phase transitions; Power; Pressure correction; **11189.** **SP305-2.**
- Thermometry; Time constant; Time response; Oceanographic temperature measurements; Temperature measurement; Temperature sensors; **15074.** **SP305-7.**
- Thermometry; Transition widths; Wire samples; Elements; Fixed points; Reproducibility; Superconductors; **12512.** **SP305-4.**
- Thermometry; Triple point; Calibration; Calibration error; Cryostat; Fixed points; Freezing point; International Practical Temperature Scale; Platinum resistance thermometer; Thermodynamic Temperature Scale; *Monogr.* **126.** **SP305-5.**
- Thermometry; Tunnel junctions; Josephson effect; Superconductivity; **17381.** **SP305-1.**
- Thermometry; Two-stage transformers; AC bridges; Bridge; Platinum thermometers; Resistance measurements; **16516.** **SP305-8.**
- Thermometry; Vacuum deposition; Calibration; Carbon film; Low temperature; *NBSIR* **74-355.** **SP305-7.**
- Thermometry; Vapor pressure; Calibration; Cryogenics; Liquid helium; Liquid hydrogen; Liquid neon; Liquid nitrogen; Liquid oxygen; Reference data; Resistance thermometers; Thermocouples; **14342.** **SP305-6.**
- Thermometry; Volume resistivity; Calorimetry; Cryogenic Dielectric constant; Ferroelectric ceramic; Pyroelectric effect; **11037.** **SP305-2.**
- Thermometry fixed points; Electrical resistivity; IPTS-68; Temperature scale; Thermal emf of elements; Thermocouples; **13110.** **SP305-5.**
- Thermometry, transition temperature; Superconductivity; **13485.** **SP305-5.**
- Thermomigration; Alloy diffusion; Copper; Diffusion; Thermomigration; Gold; Grain boundary diffusion; Impurity migration; Liquid metal diffusion; Silver; Surface diffusion; *J. Chem. Ref. Data* **3**, No. 2, 527-602 (1974). **SP305-6.**
- Thermomigration; Alloys; Cobalt; Copper; Diffusion; Thermomigration; Iron; Nickel; Palladium; Platinum; Rhodium; Ruthenium; *JPCRD* **5**, No. 1, 103-200 (1976). **SP305-8.**
- Thermo-migration; Copper; Diffusion; Electromigration; Liquid copper diffusion; Nuclear magnetic resonance and diffusion; Pressure effects on diffusion; Self-diffusion; Sintering; Surface diffusion; *J. Phys. Chem. Ref. Data* **2**, No. 3, 643-656 (1973). **SP305-6.**
- Thermomigration; Diffusion; Dilute alloys; Interstitial diffusion; vacancy pairs; Kinetic theory; Pair association model; **15847.** **SP305-8.**
- Thermomigration; Thulium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cesium; Chromium; Copper; Diffusion; Electromigration; Iridium; Grain boundary diffusion; Hydrogen; *J. Phys. Chem. Ref. Data* **4**, No. 1, 177-250 (1975). **SP305-7.**
- Thermomigration; Vacancies; Alloys; Aluminum; Copper; Diffusion; Nonisothermal diffusion; Silver-aluminum; **15847.** **SP305-8.**
- Thermomolecular pressure difference; Vapor pressure; Vapor pressure thermometry; Capacitance manometer; Cryogenic thermometry; Manometry; Pressure measurement; **15847.** **SP305-2.**
- Thermomaterial; X-ray diffraction; Crystal structure; Hydroxide carbonates; Hydrogen bonding; Sodium carbonate; *J.74C* **3**, 319-324 (1970). **SP305-2.**



- Optical properties; Transmittance; Chemical composition; Density; Glasses; Hardness; Laser; Optical homogeneity; Photoelasticity; Refractive index; Thermal conductivity; *J. A. No. 3, 163-174 (1971). SP305-3.*
- Physical measurements; Chemiluminescent; Diatomic molecules; Dissociation energies; High temperature; PbO; *IR 75-751. SP305-8.*
- Physical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; Research at high temperatures; *SP315-1. SP305-1.*
- Physical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; Research at high temperatures; *SP315-1. SP305-1.*
- Physical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; Research at high temperatures; *SP315-1. SP305-1.*
- Physical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; Research at high temperatures; *SP315-1. SP305-2.*
- Physical properties; Bibliography, high temperature; Chemistry, high temperature; High temperature chemistry; Materials properties; Research at high temperatures; *SP315-1. SP305-2.*
- Physical properties; Bibliography, high temperature; Conductance; Contact resistance; Electrical conductivity; Electrical resistivity; Heat transfer; Lorenz function; Resistivity; Temperature; Thermal conductivity; Thermal diffusivity; *SP305-1.*
- Physical properties; Bibliography, high temperature; Cryogenic temperature; Metals; *SP305-1.*
- Physical properties; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Melting point; Phase transformation; Thermodynamics; *J. A. No. 1, 1-4 (1974). SP305-6.*
- Physical properties; Heats of vaporization; Methane; Vapor densities; Specific heats of the saturated liquid; Modifications for ideal gas states; *J.75A No. 1, 15-21 (1971). SP305-3.*
- Physical properties; High-speed methods; High temperature; Phase transitions; Refractory metals; *13469. SP305-5.*
- Physical properties; High-speed measurements; High temperature; Thermodynamics; *12488. SP305-4.*
- Physical properties; High-speed measurement methods; High temperatures; Thermodynamics; *12028. SP305-3.*
- Physical properties; High-speed measurements; High temperatures; Thermodynamics; *J.75C No. 1, 7-18 (1971). SP305-3.*
- Physical properties; High-speed measurements; High temperature; Specific heat; Thermodynamics; *11727. SP305-5.*
- Physical properties; High-speed measurements; High temperature; Pulse calorimetry; Thermodynamics; *15146. SP305-7.*
- Physical properties; Transient techniques; Transport properties; Heat transfer; Thermal conductivity; Thermal diffusivity; *14251. SP305-6.*
- Physical properties; Transport properties; Tritium; Vapor pressure; Compilation; Density; Deuterium; Electrical properties; Enthalpy; Entropy; Fixed points; Hydrogen; Mechanical properties; Optical properties; Specific heat; *141. SP305-5.*
- Physical properties; Transport properties; Glass transition; Heat transfer; Hevea rubber; Thermal conductivity; *191. SP305-6.*
- Thermophysical properties; Vapor pressures; Virial coefficients; Melting pressures; Methane; *J.74A No. 5, 655-660 (1970). SP305-2.*
- Thermophysical properties; Zirconium; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Thermodynamics; *J.78A No. 4, 509-514 (1974). SP305-6.*
- Thermophysical properties symposium; Waste heat; Computer; Consumer; Drugs; Electrical pulses; Environmental standards; Friction measurement; Lead poisoning; LNG data; Optical; Standard reference materials; *DIM/NBS 60, No. 9, 1-24 (1976). SP305-8.*
- Thermophysics; Alloys; Electrical resistivity; High temperature; Melting point; Normal spectral emittance; Refractory materials; *J.78A No. 1, 5-8 (1974). SP305-6.*
- Thermophysics; Capacitor discharges; High-speed measurements; High temperatures; Thermodynamics; *14934. SP305-7.*
- Thermophysics; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperatures; *14214. SP305-6.*
- Thermophysics; Vanadium; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Thermodynamics; *J.78A No. 2, 143-147 (1974). SP305-6.*
- Thermopile; Absolute radiometry; Detectors; Extreme ultraviolet; Ionization chamber; Monochromator; *10469. SP305-1.*
- Thermopile; Ammeter; Compensation; Radio-frequency; RF-DC difference; Standard; Thermal-current-converter; *14588. SP305-6.*
- Thermopile; Detectors; Far ultraviolet; Ion chamber; Photodiodes; Radiometry; *13550. SP305-5.*
- Thermopile radiation; Ammeter; Coax; Infrared; RF-dc; *12198. SP305-3.*
- Thermopiles; Actinometers; Calibration of spectrofluorimeters; Detectors, absolute; Fluorescence spectra, corrected; Quantum counters; Spectrofluorimeters, design; Spectrofluorimetry, absolute; Standard lamps; Standards, fluorescence; *SP378, pp. 137-150. SP305-5.*
- Thermopiles; Actinometers; Calibration of spectrofluorimeters; Detectors, absolute; Fluorescence spectra, corrected; Quantum counters; Spectrofluorimeters, design; Spectrofluorimetry, absolute; Standard lamps; Standards, fluorescence; *J. 76A No. 6, 547-560 (1972). SP305-4.*
- Thermopiles; Tungsten; Vacuum ultraviolet; Anodized aluminum; Chromium; Gold; Photoelectric yield; Radiometric standards; Rare gas ionization chamber; *14708. SP305-6.*
- Thermoplastic pipe; Chlorinated polyvinyl chloride; Hardness; Internal stress; Polyvinyl chloride; Thermal mechanical analysis (TMA); Thermal properties; Thermogravimetric analysis (TGA); *NBSIR 74-610. SP305-7.*
- Thermoplastic pipe; Criteria for DWV pipe; Drain, waste, and vent systems; Environmental factors; Evaluative methods for DWV pipe; *SP361, Vol. 1, pp. 465-476. SP305-4.*
- Thermoplastic piping; ABS; Coefficient of expansion; CPVC; Glass transition temperature; Hardness; PB; Polybutene; Polyvinyl chloride; PVC; Residual stress; *NBSIR 74-629. SP305-7.*
- Thermoplastic piping in plumbing; Fire performance of piping; Functional performance of piping; Performance characteristics for piping; Thermal/structural performance of piping; *BSS68. SP305-7.*
- Thermopower; Electrical resistivity; Electrolytic iron; High temperature; Iron; Lorenz ratio; Low temperature; Standard reference material; Thermal conductivity; *SP260-50. SP305-7.*
- Thermopower; Titanium alloy; Aluminum alloy; Electrical resistivity; Lorenz ratio; Nickel alloy; Thermal conductivity; *11336. SP305-2.*

- Thermopower; Tungsten; Electrical resistivity; High temperature; Lorenz ratio; Low temperature; Standard reference materials; Thermal conductivity; *SP260-52, SP305-7.*
- Thermosetting monomers; Biomaterials; Dimethacrylates; Phthalate monomers; Purification methods; Resins for composites; Ternary eutectic; *11802, SP305-3.*
- Thermostat; Ultraviolet-visible;  $-150$  to  $+60$  °C; Spectrophotometry; *9316, SP305.*
- Thermostat setback; Transient heat flows; Air leakage measurement; Building heat transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; Temperature predictions; Thermal analysis; *BSS57, SP305-7.*
- Thermostated bath; Vacuum; Water tight; Bridge; Deep-sea thermometer; High pressure; Oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure seal; Pressure vessel; Resistance; Resistance thermometer; Test; Thermometer; *TN894, SP305-8.*
- Thermoviscoelasticity; Cylinder; Neumann series; *J73B No. 1, 31-40 (1969), SP305-1.*
- Theta alumina; Alpha alumina; Alumina; Amorphous alumina; Delta alumina; Gamma alumina; Intermediate aluminas; Metastable aluminas; Phase transitions; *10298, SP305-1.*
- Theta point; Chain partition function; Monte-Carlo computations; Near-neighbor interactions; Phase transition; Stochastic matrix; *11908, SP305-3.*
- Theta point; Excluded volume; Monte Carlo; Polymer solution; Radii of gyration; *14020, SP305-6.*
- Theta point; Transition probabilities; Volume exclusion; Linear polymers; Markov chains; Order-disorder transitions; Random variables; Restricted chains; *11646, SP305-2.*
- ThF<sub>4</sub>; Thin film; ZnSe;  $10.6\ \mu\text{m}$ ; Absorbing inclusions; Damage statistics; Laser damage; Reflectors; *SP435*, pp. 216-229 (Apr. 1976). *SP305-8.*
- Thianthrene; Combustion; Enthalpy; Formation; Heat; Secondary standard; Sulfur compound; *J79A No. 4, 561-564 (1975), SP305-7.*
- Thianthrene; Urea; Acetanilide; Bomb calorimetry; Calorimetry; Chlorobenzoic acid; Combustion; Creatinine; Fluorobenzoic acid; Nicotinic acid; Reference materials; Thermochemical; Thermochemical standards; *15441, SP305-7.*
- Thick film; Thin film; Waviness; Camber; Ceramic; Fired; Flatness; Ground; Lapped; Microwave; Polished; Roughness; Substrate; Surface; *SP348*, pp. 293-300. *SP305-4.*
- Thick film copper; Voltage contrast mode; Wire bonds; X-ray photoelectron spectroscopy; Boron redistribution; Collector resistor; Doping profiles; Effective masses; Electrical properties; Electron beam induced current mode electronics; Epitaxial layer thickness; *SP400-4, SP305-6.*
- Thick target bremsstrahlung; Efficiencies; Low energy; Monte Carlo predictions; Photon emission angles; *9991, SP305-1.*
- Thick target bremsstrahlung; Transport theory; Aluminum transmission; Bremsstrahlung; Electrons; Monte Carlo; Penetration; *11570, SP305-2.*
- Thick targets; Astrophysics; Cross sections; Fusion; Reaction rates; *SP425*, pp. 69-72. *SP305-7.*
- Thick targets; Bremsstrahlung; Bremsstrahlung efficiency; Monte Carlo; Photon neutron; Radiation transport; *11799, SP305-3.*
- Thick targets; Electrons; MeV electrons; Targets; *14572, SP305-6.*
- Thickening; Unit cell; Annealing; Comonomer inclusion; Copolymers; Lamella thickness; Theoretical and experimental; *13771, SP305-5.*
- Thickening; Volume change; Annealing; Crystalline polymers; Material transport; *14754, SP305-7.*
- Thickness; Cell; Kovar; Sapphire; Temperature; *15618, SP305-7.*
- Thickness; Thickness gages; Metal coatings; Micrometers; Microscopes; Optical equipment; Optical microscope; *12215, SP305-3.*
- Thickness; Tolerances; Blackboards; Dimensions; Na markings; Slabs; Slate; Standard sizes; *PS2-66, SP305.*
- Thickness; X-ray spectrometry; Coating thickness; Electrodeposition; Fluorescent x-rays; *13203, SP305-5.*
- Thickness determination of coatings; Coating thickness; Measurement of coating thickness; Metallography; Microscopy; *13141, SP305-5.*
- Thickness gages; Metal coatings; Micrometers; Microscopes; Optical equipment; Optical microscopes; Thickness; *12, SP305-3.*
- Thickness gages; Thickness measurement; Coating thickness; Coating thickness gages; Coatings; Electrodeposited coatings; Electroplated coatings; Metal coatings; Properties of electrodes; *15560, SP305-7.*
- Thickness measurement; Coating thickness; Coating thickness gages; Coatings; Electrodeposited coatings; Electroplated coatings; Metal coatings; Properties of electrodes; Thickness gages; *15560, SP305-7.*
- Thickness measurements; Corrosion; Electrochemistry; Electrochemistry; Oxidation; *14676, SP305-6.*
- Thickness of coal layer; Automation; Coal; Coal mine safety; Dielectric constant; Energy; Microwave measurement; destructive testing; *NBSIR 74-387, SP305-6.*
- Thickness of coal layer; Automation; Coal; Coal mine safety; Dielectric constant; Energy; Microwave measurement; destructive testing; *NBSIR 76-840, SP305-8.*
- Thickness of graphs; Conjectures; Connectivity; Cut-set; Graph theory; Mathematics; Minimality; *J72B No. 3, 239 (1968), SP305-1.*
- Thickness of graphs;  $t$ -minimal graphs; Bipartite graphs; Graph theory; Mathematics; Planar graphs; *J72B No. 2, 145 (1968), SP305-1.*
- Thickness of graphs; Two-connected graphs; Blocks; Combinatorics; Examples of graphs; Graph theory; Minimal block; Planar graphs; *J77B Nos. 1 and 2, 53-60 (1973), SP305-5.*
- Thickness vibration; Vibrational modes; X-ray diffraction; Dynamical diffraction; Extinction; Kinematical diffraction; Piezoelectricity; Theory; *11361, SP305-2.*
- Thickness-shear modes; Thickness-stretch modes; Variational equations frequency as wave numbers; Vibrations of square bars; Longitudinal modes; Theory of symmetric deformations of plates; *10753, SP305-1.*
- Thickness-stretch modes; Variational equations frequency as wave numbers; Vibrations of square bars; Longitudinal modes; Theory of symmetric deformations of plates; Thickness-shear modes; *10753, SP305-1.*
- Thin aluminum calorimeters;  $^{60}\text{Co}$  gamma-ray source; Absorbed dose; Diethylchlorostyrene film dosimeter; High-intensity pulsed electron source; *13201, SP305-5.*
- Thin carbon film; Fluid phase discrimination; Hydrogen; gravity; Resistance thermometer; *12576, SP305-4.*
- Thin film; ADP modulator; Automatic ellipsometer; Ellipsometer; Optics; Polarimetry; *10097, SP305-1.*
- Thin film; Carbon; Cryogenic; Fluid phase; Hydrogen; gravity; Resistance thermometer; Temperature; *1, SP305-2.*
- Thin film; Ginzburg-Landau theory; Magnetic field; Superconductor; *9541, SP305-1.*
- Thin film; Time resolved damage; Adhesion effect; Laser induced damage; Optical probe technique; *SP435*, pp. 284-289 (Apr. 1976). *SP305-8.*
- Thin film; Time resolved damage; Damage induced reflection; Laser induced damage; Laser induced surface acoustic waves; Surface; Surface breakdown plasma; *SP305-4.*

film; Tin; Vortex model; Electron tunneling; Ginzburg-Landau theory; Magnetic field; Superconduction; 9640. SP305-1.

film; Waviness; Camber; Ceramic; Fired; Flatness; Lapped; Microwave; Polished; Roughness; Substrate; Thick film; SP348, pp. 293-300. SP305-4.

film; ZnSe; 10.6  $\mu\text{m}$ ; Absorbing inclusions; Damage thresholds; Laser damage; Reflectors;  $\text{ThF}_4$ ; SP435, pp. 216-9 (Apr. 1976). SP305-8.

film adhesion; Thin film circuit imperfections; Aluminum oxide; Auger electron spectroscopy; Crystallographic texture; Microprobe; Scanning electron microscopy; Substrates; Surface defects; Surface segregation; SP348, pp. 271-290. SP305-4.

film analysis; Electron probe microanalysis; Electron-solid interactions; magnetic domains; Monte Carlo electron trajectory calculations; Particle analysis; Scanning electron microscopy; SP460. SP305-8.

film circuit imperfections; Aluminum oxide; Auger electron spectroscopy; Crystallographic texture; Ion microprobe; Scanning electron microscopy; Substrates; Surface defects; Surface segregation; Thin film adhesion; SP348, pp. 271-290. SP305-4.

film coated metal; Uncoated metal mirrors; Damage mechanisms; Inclusions in dielectrics; Multilayer dielectrics; Pulsed  $\text{CO}_2$  laser damage; SP372, pp. 183-193. SP305-4.

film coating; HF treatment; Inclusion damage; Passive and active testing; Platinum inclusion; Surface damage; SP372, pp. 3-10. SP305-4.

film correction factors; Resistivity profiles; Spreading resistance; SP400-10, pp. 63-74. SP305-6.

film damage; ZnTe;  $\text{As}_2\text{S}_3$ ; CdTe; Dielectric reflector; Inclusions in dielectrics; KCl; Pulsed  $\text{CO}_2$  laser damage; SP387, pp. 157-169. SP305-5.

film stress; Laser damage; Inhomogeneous films; Microscopy; Optical coatings; SP372, pp. 135-164. SP305-4.

film x-ray analysis; X-ray continuum radiation; Elemental distribution; Energy dispersive x-ray analysis; Light element analysis; Scanning electron microscopy; SP371. SP305-8.

films; Absorbed dose; Calorimetry; Cavity theory; Depth dose; Dosimetry; Dye dosimeters; Electron beams; Gamma rays; Plastic dosimeters; Radiochromic dyes; 13559. SP305-

films; Attenuated total reflection spectroscopy; Dielectric coatings; Infrared lasers; Laser damage; SP462, pp. 203-213 (Dec. 1976). SP305-8.

films; Avalanche ionization; IR windows and mirrors; Laser damage; Laser materials; Multiphoton processes; Self-focusing; SP435. SP305-8.

films; Avalanche ionization; Infrared windows; Laser damage; Metal mirrors; Optical fabrication; Optical materials; SP462. SP305-8.

films; Birefringence; Ellipsometer; 11550. SP305-2.

films; Bulk; Electro-absorption; Electron avalanche, laser damage; Local field corrections; Refractive index; Surfaces; 414, pp. 214-218. SP305-6.

films; Calorimetry; Depth dose; Dose distributions; Dyes; Electron beams; Interface; Monte Carlo transport; Power; 13558. SP305-5.

films; Cavity theory; Depth dose; Dose distributions; Dosimetry; Dyes; Electron beams; Radiochromic dyes; 424. SP305-7.

films; Computer programs; Ellipsometry; Fortran program; Multiple films; Optical constants; Reflection coefficients; 1479. SP305-1.

films; Corrosion; Electronic ellipsometer; Faraday cells; Nulling ellipsometer; 14409. SP305-6.

films; Damage threshold; Optical coatings; SP435, pp. 8-253 (Apr. 1976). SP305-8.

Thin films; Damage thresholds; Laser damage; Refractive index; Surface damage; Surface roughness; SP435, pp. 289-295 (Apr. 1976). SP305-8.

Thin films; Dose distribution; Dosimetry; Electron beams; Microdensitometry; Spectrophotometry; 12945. SP305-4.

Thin films; Dose distributions; Dosimetry; Dye dosimeters; Electron beams; Radiation curing; Radiation processing; Radiochromic dyes; 14957. SP305-7.

Thin films; Ellipsometry; Optics; 15061. SP305-7.

Thin films; Evaporation; Magnetic retention; Masks; Sputtering; Substrates; 15231. SP305-7.

Thin films; Far ultraviolet; Optical polishing; Scattering; Substrates; Surface roughness; 9812. SP305-1.

Thin films; Flash evaporation; High pressure phases; Sulfoselenides; SP364, pp. 695-702. SP305-4.

Thin films; IR windows and mirrors; Laser damage; Laser materials; Self-focusing; SP387. SP305-5.

Thin films; IR windows and mirrors; Laser damage; Laser materials; Self-focusing; SP372. SP305-4.

Thin films; IR windows and mirrors; Laser damage; Laser materials; Self-focusing; SP414. SP305-6.

Thin films; Laser damage; Mirror damage; SP414, pp. 48-52. SP305-6.

Thin films; Laser damage; Surface science; SP372, pp. 75-83. SP305-4.

Thin films; Threshold; Damage threshold; Etching; Flame polishing; Fused silica; Hydroxyl; Ion polishing; Polishing; Roughness; Surface damage; SP462, pp. 310-314 (Dec. 1976). SP305-8.

Thin films; Transmission; Interferometry; Kösters prism; Optical films; Phase shift; Polarized light; Reflection; 14495. SP305-6.

Thin films; Truncated Gaussian optics; Damage morphology; Damage thresholds; Laser-induced scatter; Ruby; Spark thresholds; SP372, pp. 123-134. SP305-4.

Thin films; Tunnel junctions; Josephson effect; Niobium; Superconducting device; 11407. SP305-2.

Thin films; Two fluid; Dielectric constant; Dissipation factor; Electrical measurements; FEP fluorocarbon; Polyethylene terephthalate; 12703. SP305-4.

Thin films; Two-photon absorption; Damage thresholds; Electron avalanche; Picosecond pulses; Refractory oxides; Standing-wave fields; SP462, pp. 292-300 (Dec. 1976). SP305-8.

Thin films; Ultrasonic cleaning; Damage thresholds; Fused silica; Ion polishing; Surface damage; Surface roughness; Surface structure; SP435, pp. 305-320 (Apr. 1976). SP305-8.

Thin films; Vacuum; Adsorption; Barium fluoride; Electric hygrometer; Humidity; J.71C3-255, 199-207 (1967). SP305.

Thin films; Vacuum ultraviolet;  $\text{Al}_2\text{O}_3$  films; Electron attenuation length; Electron mean free path; Photoelectric effect; Photoelectric threshold; 11085. SP305-2.

Thin films; Weak-signal scatter; Damage thresholds; Dielectric reflector; Laser-induced scatter; Picosecond pulses; Spark thresholds; SP414, pp. 39-47. SP305-6.

Thin films; Whiskers; Field-ion microscopy; Mass spectrometry ionization sources; Organic molecule imaging; 10689. SP305-1.

Thin films; X rays; Electron probe microanalysis; Monte Carlo calculations; Particulates; Quantitative analysis; 16410. SP305-8.

Thin films; X-ray analysis; Electron probe microanalysis; Monte Carlo electron trajectory calculations; Nuclear backscattering analysis; Scanning electron microscopy; SP460, pp. 129-138 (Dec. 1976). SP305-8.

Thin films; X-ray emission; Electron trajectories; Magnetic effects; Monte Carlo calculations; Multiple scattering x-ray generation; Particle analysis; Quantitative x-ray microanalysis; SP460, pp. 105-128 (Dec. 1976). SP305-8.

- Thin films; X-ray fluorescence; X-ray microanalysis; Distribution functions; Electron probe microanalysis; Semiconductor materials; *15967. SP305-8.*
- Thin films; 4<sup>th</sup> configurations; Complex ions; Coordination polyhedra; Nonstoichiometry; Polymolecular frameworks; Rare earth optical spectra; Rare earth oxide; Refractory materials; *SP364*, pp. 367-383. **SP305-4.**
- Thin films immersed in liquids; High power ruby laser damage; Multilayer reflectors; Single layer coatings; Spark detection; *SP462*, pp. 315-330 (Dec. 1976). **SP305-8.**
- Thin films vapor deposition; Ellipsometry; Epitaxy; Index of refraction; Optical constants; *11761. SP305-2.*
- Thin foils; Electron beam; Energy current; Moller scattering; Mott scattering; Secondary electron; *10494. SP305-1.*
- Thin foils; <sup>60</sup>Co gamma radiation; CaF<sub>2</sub>:Mn; Electrons, 20 to 400 keV; Energy dependence; Fluence response; Response per unit electron energy absorbed; Sample-thickness dependence; Thermoluminescence; *10923. SP305-2.*
- Thin layer electrochemistry; Vanadium; Automatic titrations; Coulometric titrations; Current integration; Digital timing; Epinephrine; Linear sweep voltammetry; Manganese; Micrometer cell; *SP422*, pp. 861-869 (Aug. 1976). **SP305-8.**
- Thin layer chromatography; Chromatography; Color matching; Color measurement; Diffuse reflectance; Kubelka-Munk function; Reflectance; Reflectance standards; *J. Res. 80A* No. 4, 551-565 (1976). **SP305-8.**
- Thin layers; Data reduction; Electron probe; Monte-Carlo calculations; *13526. SP305-5.*
- Thin plates; Bassali's theory; Concentric loading; Circular plates; Deflection; Elasticity; Experimental; Flexure; Point supports; Simplified approximate solutions; *J.70C4-234, 227-244* (1966). **SP305.**
- Thin plates; Bassali's theory; Deflection; Elasticity; Flexure; Point supports; Symmetrically distributed load; *J.72C No. 1, 21-26* (1968). **SP305-1.**
- Thin shells; Torsion; Aircraft structures; Buckling; Composite materials; Metal reinforcement; Stability; Stacking sequence; *NBSIR 74-572. SP305-6.*
- Thin shells; Torsion buckling; Aircraft structures; Boron/epoxy; Composite materials; Reinforced aluminum; Stability; *TN728. SP305-4.*
- Thin shells; Torsional buckling; Composite materials; Elastic buckling; Reinforced aluminum; Stability; *14424. SP305-6.*
- Thin silicon layers; Diffusion; Epitaxy; Ion implantation; Microwave devices; Profiling; Spreading resistance; *SP400-10*, pp. 209-216. **SP305-6.**
- Thin wall; Torsion; Tube; Creep; Primary creep; Shear; Shell; Stress analysis; *J.71C3-256, 209-225* (1967). **SP305.**
- Thin-film bolometers; Voltage measurement; BOLOVAC; Calibration of current meters through microwaves; Calibration of power meters through microwaves; Calibration of voltmeters through microwaves; Current measurement; Disk-type bolometer evaluation; *Monogr. 123. SP305-4.*
- Thin-film coating; Alkali halides; Antireflectance coating; Chalcogenide glasses; Infrared optical properties; Laser damage; Optical absorption; Optical scattering; *SP462*, pp. 214-220 (Dec. 1976). **SP305-8.**
- Thin-film damage; Coating defects; Damage morphology; Damage thresholds; Laser-induced scatter; Mean distance between defects; Rutile crystal damage; *SP387*, pp. 114-123. **SP305-5.**
- Thin-film device; Frequency source; Josephson radiation; Josephson tunnel junction; Junction array; Microstripline-coupling; *15599. SP305-7.*
- Thinking; Information retrieval; Information storage; Mechanized; Methodology; Optical-coincidence; Patents; References; Search; Systems; *10527. SP305-1.*
- Thin-layer chromatograms; Ultraviolet; Visible absorption spectra; 4-oxo-4H-benz[de]anthracene-7,8-dicarboxylic anhydride; Absorption spectra; Air pollutants; Anthraquinone-1,5-dicarboxylic acid; *J.72A No. 1, 39-47* (1968). **SP305-1.**
- Thinning; Cross sections; Linearization; Paging; Pre-process; Relative error; *SP425*, pp. 419-421. **SP305-7.**
- Thinning; Unresolved; Cross section; Interpolation; M. Carlo; Probability; Resonance; *SP425*, pp. 447-450. **SP 7.**
- Thin-wall mensuration; Attenuation of betas; Beta-transmission phenomenology; Counting geometry; Mass absorption coefficient derivation; Strontium 90 wall-thickness measurement; *SP335*, pp. 11-21. **SP305-3.**
- Thiobacilli; Underground pipeline corrosion; Anaerobic corrosion; Cathodic depolarization; Desulfovibrio; Microbial corrosion; Sulfate-reducing bacteria; *11000. SP305-2.*
- Thioborine; Absorption spectra; Force constants; HBS; Infrared; Molecular spectra; Spectra; *15000. SP305-7.*
- Thiocarbonyl; 1,3-dithiolane-2-thione; 1,3-dithiolene-2-thione; Carbon-13 NMR; Coordination compounds; Metal carbonyls; *16585. SP305-8.*
- Thioformaldehyde; Astronomically important; Electrodischarge; Interstellar medium; Microwave spectroscopy; Rotational spectrum; *11965. SP305-3.*
- Thioformaldehyde; Formaldehyde; Formamide; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; *J. Phys. Chem. Ref. 1, No. 4, 1011-1046* (1972). **SP305-6.**
- Thioformaldehyde; High resolution; Infrared; Rotational constants; Short lived molecule; Spectrum; *12500. SP305-4.*
- Thioformaldehyde; Structure; Dipole moment; Microwave spectrum; Reactive species; Rotational spectra; *12325. SP305.*
- Thioformaldehyde; Ultraviolet photolysis; Vacuum ultraviolet photolysis; CH<sub>3</sub>S; CH<sub>3</sub>SH; Dimethyldisulfide; Infrared spectrum; Matrix isolation; Pyrolysis; s-trithiane; *15334. SP30.*
- Thiophosgene; Chlorine isotope; Isotope separation; Laser discharge reaction; Laser irradiation; Photochemical reaction; *15959. SP305-8.*
- Thiourea; Urea; Ferroelectric; Libration; Molecular vibration; Neutron spectra; Phase transitions; Potential barrier; Rotation; *10425. SP305-1.*
- Third body; Bimolecular; Chlorine; Dissociation; Evaluation; Fluorine; Gas; Recombination; Review; Termolecular; *14. SP305-6.*
- Third interaction virial coefficients; Virial coefficients; Vapor-air mixtures; Chemical association; Lennard-Jones potential parameters; *J.79A No. 6, 775-776* (1975). **SP 7.**
- Third law; Entropy; Isotopes; Symmetry number; *12. SP305-4.*
- Third law heat; Vapor pressure; Bias of least squares estimates; Coefficient of variation; Correlated estimators; Entropy adjustments; Heat of vaporization; High temperature chemistry; Overestimation of standard deviation; *J.70A6-424, 539*, (1966). **SP305.**
- Third order feedback system; Time scales; Time synchronization; Computer simulation; Flicker noise; Frequency optimum prediction; *10301. SP305-1.*
- Third order spherical aberration; Cassegrainian systems; Comators; Cubic equations; Optical design; Reflecting systems; *10088. SP305-1.*
- Third sound; Energy attenuation; Helium film; Liquid helium; Normal fluid viscosity; *9992. SP305-1.*
- Third spectra; Atomic theory; Iron group; *J.73A No. 2, 189* (1969). **SP305-1.**
- Third spectra;  $\beta Q$  and  $T$  corrections; Configurations 3d<sup>5</sup>; Energy levels; Interaction parameters; Iron group; *J.72A 5, 505-520* (1968). **SP305-1.**
- Third spectra; Configurations 4d<sup>5</sup>+4d<sup>5</sup>-1s<sup>5</sup>; Energy level interaction parameters; Palladium group; Theoretical; *J.7. 415, 435-445* (1966). **SP305.**



d spectrum; Corrections to analysis of Au III; Gold; Spectrum of Au III; *J70A6-418, 465-466 (1966)*. SP305.

d spectrum; Vacuum ultraviolet; Wavelengths; Energy levels; Interaction parameters; Praseodymium; *J73A no. 3, 13-381 (1969)*. SP305-1.

d virial coefficient; Isochores; Isotherms; Joule-Thomson version curve; Liquid densities along melting line; PVT data; Second virial coefficient; *J74A No. 6, 747-760 (1970)*. SP305-2.

d virial coefficient; Water vapor; Air constituents; Boyle temperature; Deuterium; Hydrogen; Intermolecular potential; version temperature; Methane; Noble gases; Potential parameters; Second virial coefficient; *13108*. SP305-5.

d virial coefficients; Argon; M-6-8 potential; Nonadditivity; *1040*. SP305-4.

d virial coefficients; Virial equation; Nonpolar gases; Quantum gases; *10329*. SP305-1.

d-neighbor model; Cauchy relations; Central force interaction; Cubic crystals; Second- and third-order elastic constants; Stress-free equilibrium; *12980*. SP305-4.

d-order aberration; Electron lenses; Experiment; Theory; *1652*. SP305-4.

d-order aberration coefficients; Two-tube electrostatic lens; fifth-order aberration coefficients; Intrinsic aberration coefficients; Meridional electron trajectories; *12651*. SP305-4.

d-order aberration coefficients; Aberration integrals; asymptotic trajectories; Electron lens; *14197*. SP305-6.

d-order aberration coefficients; Two-tube electrostatic lens; eak lenses; Aberration integrals; Asymptotic aberration coefficients; Electron lenses; Strong lenses; *14817*. SP305-7.

d-order aberration coefficients; Two-tube lens; Aberration integrals; Asymptotic aberration coefficients; Electron optics; electrostatic lens; *14974*. SP305-7.

d-order theory; Unit magnification; Cassegrain; Reflecting objective; Spectrometers; Spherical aberration; *14802*. SP305-7.

ria; Tungsten; Diffuse reflectance; Graphite; High temperature reflectance; Infrared reflectance; Integrating sphere photometer; Laser, reflectance; Sodium chloride coating; synchronous amplification; *TN439*. SP305-1.

ria; Tungsten; Emittance; Graphite; Iridium; Laser-source integrating sphere; Reflectance; Shallow cavity emittance; surface characterization; *12940*. SP305-4.

ria; Tungsten; Graphite; High temperature reflectance; Integrating sphere; Laser; Reflectance; Sodium chloride coating; *10571*. SP305-1.

ria; Zirconia; Alumina; Ceramic oxides; Emittance; Error curves; Magnesia; Measurement uncertainties; Spectral emittance; Thermal radiation; *J70A5-412, 393-415 (1966)*. SP305.

ria-yttrium oxide ceramic; Yttrium aluminum garnet; Absorption coefficient; Calcite; Damage threshold; Deuterated potassium dihydrogen phosphate; Electrostriction; Electrostrictive self-focusing; Inclusion damage; Kerr effect; Laser damage; *13793*. SP305-5.

rium; Energy levels Th I; First spectrum; *11211*. SP305-2.

rium; Th I; Wavelengths; Zeeman-effect of Th I; Energy levels; *J. Res. 80A No. 2, 221-358 (1976)*. SP305-8.

rium; Thorium standards of class B; Wavelength standards; secondary standards in thorium spectrum; Standards of wavelength; *11739*. SP305-2.

rium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Jendelevium; Neptunium; Nobelium; Plutonium; Protactinium; *13594*. SP305-5.

rium; Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Jendelevium; Neptunium; Nobelium; Plutonium; Protactinium; *14257*. SP305-6.

Thorium; Uranium; Chromium; Isotopic ratios; Lead; Model ages; Nickel; Potassium; Rubidium; Strontium; *13932*. SP305-6.

Thorium; Uranium; Isotope dilution; Lead; Mass spectrometry; Silicate glass standard materials; Standard reference materials; Thallium; *13313*. SP305-5.

Thorium; Volume dependence of density-of-states; Aluminum (Al); Electronic density of states; Electronic specific heat; Gallium; Grüneisen parameter, electronic; Superconductivity; Thermal expansion; *SP323*, pp. 731-734. SP305-4.

Thorium; Wavelengths of Th II; Energy levels of Th II; g-values of Th II; Spectrum of Th II; Th II spectrum; *J78A No. 2, 163-246 (1974)*. SP305-6.

Thorium chemical yield; Bio-assay; Carbon-14; Detection efficiency; Isotope dilution; "over-all" yield; Radiochemical analysis; Random errors; Systematic errors; *9652*. SP305-1.

Thorium determination; Th/U ratio; Track excess; Fast flux; Fission track technique; *13899*. SP305-6.

Thorium dioxide; Uranium dioxide; Activity coefficients in solid solutions; Equilibria with molten fluorides; Equilibrium of actinide oxides and molten fluorides; Heat of mixing in solid solutions; *SP364*, pp. 331-341. SP305-4.

Thorium spectra; Wavelengths of Th; Classified lines of Th I and Th II; Fourier transform spectra of Th; Infrared spectra of Th; Spectra of Th; Th I and Th II; *J78A No. 2, 247-281 (1974)*. SP305-6.

Thorium standards of class B; Wavelength standards; Secondary standards in thorium spectrum; Standards of wavelength; Thorium; *11739*. SP305-2.

ThO<sub>2</sub> resonance integral; <sup>232</sup>Th; <sup>233</sup>U; Cross sections; *SP425*, pp. 415-418. SP305-7.

Thread properties; Threads, sewing; Apparel industry; Industry, apparel; Performance, sewing thread; Properties, sewing thread; Quality control, sewing threads; Sewing threads; Testing programs, sewing thread tests, sewing thread; *12382*. SP305-4.

Threads; Class T; Dimensions; Hydrostatic design stress; Materials; Pipe; Poly(vinyl chloride) (PVC); Pressure; Pressure rating (PR); Standard dimension ratio (SDR); *PS22-70*. SP305-2.

Threads, sewing; Apparel industry; Industry, apparel; Performance, sewing thread; Properties, sewing thread; Quality control, sewing threads; Sewing threads; Testing programs, sewing thread tests, sewing thread; Thread properties; *12382*. SP305-4.

Threat analysis; Behavioral impact; Cognitive processes; Nuclear weapon theft; Perceptual processes; Psychological deterrence; Security systems; Sensory processes; *NBSIR 76-1007*. SP305-8.

Three body correlation function; X-ray diffraction; Neutron diffraction; Percus-Yevick equation; Radial distribution function; Simple liquids; Superposition approximation; *12016*. SP305-3.

Three body forces; Methane; Molecular dynamics; Potential function; Specific heat; Statistical mechanical ensembles; Thermodynamic properties; *15310*. SP305-7.

Three components color theory; Chromatic induction; Color; Contrast; Crispness; Opponent color theory; Surround color; *9411*. SP305.

Three dimensions; Crystalline solid; Iron; Molecular dynamics; Second sound; Shockwave; Thermal relaxation; *13477*. SP305-5.

Three thicknesses; Transmission measurements; 190-m flight path; Background; JAERI lines; Natural U; Resonance parameters  $\Gamma_n^0$  up to 5 keV; *SP425*, pp. 738-741. SP305-7.

Three triplet model; Composite model of leptons; Electron number; Lepton quarks; Larks; Muon-electron universality; Muon number; Neutrino quarks; Strong interactions; *15614*. SP305-7.

- Three variables; Algebraic equation; Diophantine equations; Integers; *J.72B No. 1, 23-28 (1968). SP305-1.*
- Three-antenna extrapolation; Calibration; Ground antenna; Standard antenna gain; *15641. SP305-7.*
- Three-body problem; Confidence cross sections;  $^3\text{He}(pd)$  vertex; Plane wave impulse approximations; Quasi-free scattering; Separable potentials; *13102. SP305-4.*
- Three-body problem; Tritium; Electron scattering; Final state rescattering; Helium-3; Separable potential; *12849. SP305-4.*
- Three-body problem;  $^3\text{He}$ ; Pole dominance; Quasifree scattering; Rescattering effects; Separable potentials; *13126. SP305-5.*
- Three-circle; X-ray; Diffraction; Diffractometer; Neutrons; Simultaneous; *9524. SP305.*
- Three-color superposition; Color superposition photography; Field-ion microscopy; Image analysis; *16228. SP305-8.*
- Three-components theory of color vision; Tritanopia; Chromatic adaptation; Color blindness; Color-matching functions; Color vision; Deutanopia; Opponent-colors theory; Protanopia; *9819. SP305-1.*
- Three-dimensional; Complex object; Laminagraphy; Multiple-film; Radiographic inspection; Thermal neutrons; *16371. SP305-8.*
- Three-dimensional ferromagnet; Two-dimensional ferromagnet; Ising ferromagnet; Molecular field approximation; Pair correlation function; *11166. SP305-2.*
- Three-dimensional images; Ceramic Materials; CESEMI (Computer evaluation of scanning electron microscope images); Digital magnetic tape recordings; Profilometer; Profilometer rasters; Quantitative characterization; *SP348, pp. 309-316. SP305-4.*
- Three-dimensional Ising antiferromagnetic; Antiferromagnet;  $\text{DyPO}_4$ ; Exchange interaction; Ising; Magnetic; *1614. SP305-2.*
- Three-dimensional radiography; X-radiography; Dimensional measurement; Gamma radiography, image enhancement; Neutron radiography; Nondestructive testing; Proton radiography; Real-time techniques; *15214. SP305-7.*
- Three-dimensional reconstruction; Stereology; Stereometry; Stereopsis; Stochastic models; Structures; *SP431. SP305-8.*
- Three-dimensional scanning; Anechoic chamber evaluation; Omni-directional probe; Reflectivity; *14952. SP305-7.*
- Three-fluid model; Two-fluid model; Excess neutrons; Isospin; Nuclear charge distribution; Nuclear structure; *12114. SP305-3.*
- Three-parameter theorem; Argon; Molecular complexity; Molecular thermodynamics; Prigogine's cell theory; Thermodynamic properties; *9386. SP305.*
- Three-phase loci; Apparatus; Argon-methane data; Liquid-vapor; Low temperature; Phase equilibrium; Solid-vapor; Thermodynamic properties; *11735. SP305-2.*
- Three-terminal electrode set; Clausius-Mossotti; Density; Dielectric constant; Dilatometer; Function; High pressure;  $n$ -hexane; Pressure; *J.71A4-460, 287-292 (1967). SP305.*
- Three-triplet quark model; Color-quark model; Current algebra and pcac; Nonleptonic  $\Omega^-$  decays; Paraquark model; Symmetric quark model; *14569. SP305-6.*
- Three-voltmeter method; Wattmeter; Opamp; Phase-sensitive detector; Power-factor; Quadrature; *12848. SP305-4.*
- Three-voltmeter method; Wattmeter; Phase-sensitive detector; Power-factor; Quadrature; *13047. SP305-4.*
- Three-wave mixing; Ac Kerr effect; Glasses; Nonlinear optical effects; Nonlinear optical susceptibility; Self-focusing; *SP414, pp. 207-213. SP305-6.*
- Threshold; Acoustic cavitation; Alpha-particle-induced cavitation; Cavitation; Cavitation nucleus; Cavitation threshold; Fission-induced cavitation; Neutron-induced cavitation; Radiation-induced cavitation; *J.71C4-261, 299-312 (1967). SP305.*
- Threshold; Air-conduction; Audiometry; Bone-air cancellate; Bone-conduction; Hearing; Masking; Psychoacoustics; *100. SP305-1.*
- Threshold; Atom; Collision; Coulomb-interaction; Electron energy exchange; Ionization; *15884. SP305-8.*
- Threshold; Close-coupling; Electron excitation; Multi-channel Polarization; Resonance; *10737. SP305-1.*
- Threshold; CO; Electron excitation; Energy loss spectra; Resonance decay; Resonant structure; *15134. SP305-7.*
- Threshold; Consumer products; Electrical breakdown; Gas Hazard; High voltage; Sharp edges; Sharp points; *NBSIR 908. SP305-7.*
- Threshold; Damage threshold; Etching; Flame polishing; Fu silica; Hydroxyl; Ion polishing; Polishing; Roughness; Surface damage; Thin films; *SP462, pp. 310-314 (Dec. 1971). SP305-8.*
- Threshold; Ultraviolet; Vacuum; Dissociation; Fragment ionization; Mass spectrometer; Molecule;  $\text{NO}_2$ ;  $\text{NO}_2^+$ ;  $\text{N}_2$  Photoionization; *J.71A5-467, 371-378 (1967). SP305.*
- Threshold; Xenon; Autoionizing states; Electron excitation; Energy loss; Resonances; *15442. SP305-7.*
- Threshold dependence on wavelength and doping; GaAs; Laser induced acoustic pulse; Laser-induced damage; Stimulated Brillouin scattering; *SP387, pp. 103-106. SP305-5.*
- Threshold detectors; Activity measurement; Cross sections; Ionization spectrum; Neutron source; Scattering correction; *SP425, pp. 273-276. SP305-7.*
- Threshold energies; Autoionization; 1,2-dideuteroethylene; Ethylene; Mass spectra; Photoionization; Rydberg; *92. SP305.*
- Threshold energies; Detection; Induced radioactivity; Maximum permissible concentrations; Photoneuclear reaction; Processing; Radiation; *9853. SP305-1.*
- Threshold energies; Vacuum ultraviolet;  $\text{CH}_3\text{CN}$ ; Dissociation; HCN; Heats of formation; Ionization; Mass spectrometry; *10902. SP305-2.*
- Threshold energies; Water; Ammonia; Dissociative photoionization;  $\text{NH}_3^+$ ;  $\text{OH}^+$ ; Photoionization; *15352. SP305-7.*
- Threshold energy; Electronically excited state; Mass spectrometry; Photoionization; Rydberg levels; Sulfurhexafluoride; *9683. SP305-1.*
- Threshold foil; Cadmium ratio; Fast neutron flux; Neutron flux; Neutron activation analysis; Sample pressure; Thermal neutron flux; *14083. SP305-6.*
- Threshold increase; Threshold measurement; Ion beam polishing; Sapphire; Surface damage; *SP372, pp. 55-57. SP305-4.*
- Threshold limit; Amalgam condensation; Mercury; Mercury vapor levels; *12092. SP305-3.*
- Threshold measurement; Ion beam polishing; Sapphire; Surface damage; Threshold increase; *SP372, pp. 55-57. SP305-4.*
- Threshold of hearing; Audiometry; Earphones; NBS 9-A coupler; Reference threshold sound pressure levels; Standards for audiometers; *12260. SP305-3.*
- Threshold of hearing; Uncertainty of threshold of hearing standard; Artificial ear; Earphones; International audiometry reference zero; Pure-tone audiometers; *11186. SP305-2.*
- Threshold photoelectron spectroscopy; Coincidence; Mass spectrometry; Photoionization; Propane; Propane- $d_6$ ; Propane- $d_8$ ; *16590. SP305-8.*
- Threshold voltage; Tungsten; Binding states; Carbon monoxide Chemisorption; Cross section; Electronic desorption; Electron impact; Ion energy distribution; Nitric oxide; Oxygen; *10453. SP305-1.*
- Thromboresistance; Biocompatibility; Biomaterials; Blood protein; Ceramic implants; Implantable electrodes; Metal implants; Nerve prosthesis; Synthetic implants; *SP41. SP305-7.*
- Through hardening steel; Ceramic; Cermets; Dimensional stability; Gage blocks; Length standards; Precipitation hardening

eel; Secondary hardening steel; Tempering; *11223. SP305-5*.

throughput; Computer; Evaluation; Hardware monitors; Measurement; Performance; Software monitors; *SP406*, pp. 99-102. **SP305-7.**

throughput; Instrument; Polarimeter; Polarimetry quartz; Signal-to-noise ratio; *13619. SP305-5.*

throughput; TRIB; Data communications; Modems; Terminals; *4779. SP305-5.*

lawn objects tests; Dispersion tests; Lawn mowers; Penetration tests; Power lawn mowers; Safety standard; *NBSIR 76-22. SP305-8.*

J ratio; Track excess; Fast flux; Fission track technique; Thorium determination; *13899. SP305-6.*

ium; Anti-ferromagnet; Anti-phase domain; Augmented plane wave method (APW); Curie temperature; Electronic density of states; Enhancement factors; Erbium; Erbium-thorium alloys; Ferro-magnetic spiral structure; Gadolinium; *SP23*, pp. 571-577. **SP305-4.**

ium; Energy levels; Theory; *12829. SP305-4.*

ium; Energy levels; Theory; *12830. SP305-4.*

ium; Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; Diffusion; Electromigration; Europium; Grain boundary diffusion; Hydrogen; *J. Phys. Chem. Ref. Data* 4, No. 1, 7-250 (1975). **SP305-7.**

ium; Wavelengths; Energy levels; Spectrum; *J77A No. 1*, 43 (1973). **SP305-5.**

ium; Ytterbium; Cerium; Dysprosium; Erbium; Europium; Gadolinium; Hafnium; Holmium; Ionization energy; Lanthanum; Lutetium; Neodymium; Praseodymium; Promethium; Samarium; Terbium; *13703. SP305-5.*

ium; 3d edges; Erbium; Photoabsorption; Theory; *13045. SP305-4.*

ium arsenate;  $\text{TiAsO}_4$ ; Heat capacity; Jahn-Teller effect; Molecular field approximation; Schottky anomaly; *12990. SP305-4.*

ium compounds; Ytterbium compounds; Cerium compounds; Dysprosium compounds; Enthalpy; Entropy; Erbium compounds; Europium compounds; Gadolinium compounds; Gibbs energy of formation; Holmium compounds; Lanthanides; Lanthanum compounds; *TN270-7. SP305-5.*

ium-170; Barium-140; Iron foils; Praseodymium-142; *693. SP305-2.*

oid monitoring; Bioassay; I-125 uptake; *SP456*, pp. 371-399 (Nov. 1976). **SP305-8.**

alloys; Electronic specific heat; Electronic structure; Fe Co; Superfine fields; Isomer shift; Knight shift; S-admixture; *313. SP305-1.*

TiC; Transition metal compounds; Bonding; Carbides; Cohesive energy; Density of states; Electronic structure; Heat of formation;  $L_{II,III}$  spectra; Refractory hardmetals; *SP364*, pp. 567-582. **SP305-4.**

Ti ii; Ti iii; Arc; Experimental; Oscillator strengths; *15023. SP305-7.*

Ti i; Arc; Experimental; Oscillator strengths; Ti i; *15023. SP305-7.*

3d<sup>2</sup>; 3d<sup>4</sup>s; 3d<sup>4</sup>p configurations; Calculated line strengths; Configuration interaction; Intermediate coupling; *J73A No. 1*, 51-64 (1969). **SP305-1.**

Ti; Arc; Experimental; Oscillator strengths; Ti i; *15023. SP305-7.*

Ti; Transition strengths; 3d<sup>4</sup>p configurations; *11398. SP305-2.*

Ti; TiCo; TiFe; TiNi;  $\text{Ti}_2\text{Te}$ ; Binary alloys;  $\text{Bi}_2\text{Te}_3$ ; CdSb; Copper-gold (Cu-Au);  $\text{Cu}_3\text{Au}$ ; CuPt;  $\text{Cu}_3\text{Pt}$ ; Ductility; Electrical resistivity; Hall effect; *SP323*, pp. 483-492. **SP305-4.**

Ti-Al system; TiNi; Absorption correction; Density of states; Lifetime broadening; Nickel; Overlapping spectra; Soft x-ray spectra of alloys; Temperature broadening; *10533. SP305-1.*

TiC; Transition metal compounds; Bonding; Carbides; Cohesive energy; Density of states; Electronic structure; Heat of formation;  $L_{II,III}$  spectra; Refractory hardmetals; *SP364*, pp. 567-582. **SP305-4.**

$\text{TiCl}_3$ ;  $\text{TiCl}_4$ ; Dichlorides of Ca, Sc, Ti, V, Cr, Mn, Fe, Ni; Geometry; Infrared spectra of species; Matrix isolation;  $\text{ScCl}_3$ ; *12281. SP305-3.*

$\text{TiCl}_4$ ; Dichlorides of Ca, Sc, Ti, V, Cr, Mn, Fe, Ni; Geometry; Infrared spectra of species; Matrix isolation;  $\text{ScCl}_3$ ;  $\text{TiCl}_3$ ; *12281. SP305-3.*

TiCo; TiFe; TiNi;  $\text{Ti}_2\text{Te}$ ; Binary alloys;  $\text{Bi}_2\text{Te}_3$ ; CdSb; Copper-gold (Cu-Au);  $\text{Cu}_3\text{Au}$ ; CuPt;  $\text{Cu}_3\text{Pt}$ ; Ductility; Electrical resistivity; Hall effect; *SP323*, pp. 483-492. **SP305-4.**

Tides; Wind; Buildings; Cyclones; Disasters; Structural engineering; *B5586. SP305-8.*

Tides; Wind; Buildings; Failure; Hurricanes; Mobile homes; Roofs; Structural engineering; *TN569. SP305-3.*

Tie molecules; Chain rupture; Crystalline polymer; ESR investigation of radicals; Fibrous structure; Mechanical breakdown; Microfibrillar structure; Radical formation; *15476. SP305-7.*

Tieline; Condensate return; Epoxy; Fiberglass reinforced plastic; Filament-wound; Insulated; Molded; Morpholine; Prefabricated steel conduit; Qualified Products List; *B5566*, pp. 88-101. **SP305-7.**

TiFe; Calibration; Chemical shift; Iron; Knight shift; Mössbauer effect; Sodium nitroprusside; *J74A No. 5*, 691-697 (1970). **SP305-2.**

TiFe; TiNi;  $\text{Ti}_2\text{Te}$ ; Binary alloys;  $\text{Bi}_2\text{Te}_3$ ; CdSb; Copper-gold (Cu-Au);  $\text{Cu}_3\text{Au}$ ; CuPt;  $\text{Cu}_3\text{Pt}$ ; Ductility; Electrical resistivity; Hall effect; *SP323*, pp. 483-492. **SP305-4.**

TiFe;  $^{57}\text{Fe}$ ; Electronic structure; Knight shift; Nuclear magnetic resonance; Nuclear moment; *11561. SP305-2.*

$\text{TiFeH}_x$  alloys; Volume effects; Charge flow; Isomer; Mössbauer; Phase diagram; *16597. SP305-8.*

Tight binding calculation; W substrate; Density of states at the adsorbate; Energy levels; S state adsorbate; Surface molecule; *13671. SP305-5.*

Tight-binding; Augmented plane wave method (APW); Electronic density of states; K-p method; LCAO; Lead telluride ( $\text{PbTe}$ ); Optical properties; Pseudopotential; Random phase approximation;  $\pi$ . **SP305-4.**

Tight-binding; Cellular disorder; Disordered systems; Electronic density of states; Localization theory; Quasi-localized state; *SP323*, pp. 521-526. **SP305-4.**

Tight-binding approximation; Electronic density of states; Electronic specific heat; Palladium (Pd); Rh; Rh-Pd alloys; Ru-Rh alloys; Specific heat; *SP323*, pp. 579-585. **SP305-4.**

$\text{TiH}_2$ ; Soldering; Contact resistance; Oxide semiconductors; *11812. SP305-3.*

Tilt angle; Test testing; Abuse testing; Dynamic stability; Hazards; Obstruction; Riding toys; Stairway; Static stability; Test weight; *NBSIR 74-623. SP305-7.*

Timber; Grades; Lumber; Sizes; Softwood; Species; *PS20-70. SP305-2.*

Timber, structural glued laminated; Glued laminated timber; Laminated timber; Structural glued laminated timber; *PS56-73. SP305-5.*

Time; Ampere; Candela; Current; Degree Kelvin; International System of Units; Kilogram; Length; Luminous intensity; Mass; Meter; Metric system; Second; Standards for physical measurement; Temperature; *9796. SP305-1.*

Time; Broadcast; Communication; Frequency; Ratio; Synchronization; *16496. SP305-8.*

Time; Broadcasting; Dissemination; Frequency; Satellite; Synchronization; *14836. SP305-7.*

Time; Clocks; Coordinate time; General relativity; *TN659*. SP305-7.

Time; Dissemination; Frequency; Frequency synthesizers; Linear phase comparators; Television color subcarrier; *12234*. SP305-3.

Time; Dissemination; Frequency; High frequency broadcasts; Standard; *TN668*. SP305-7.

Time; Dissemination; Frequency; Satellites; Synchronization; *TN645*. SP305-5.

Time; Dissemination frequency; Frequency synthesizers; Linear phase comparators; Television color subcarrier; *14336*. SP305-6.

Time; Energy conservation; Fires; Gasoline consumption; Glass SRM; Hazardous chemicals; Leap second; Playground equipment safety; Scientific data; Silicon devices; *DIM/NBS 59*, No. 2, 25-48 (1975). SP305-7.

Time; Frequency; Questionnaire; Standard frequency and time broadcasts; *TN674*. SP305-7.

Time; Frequency; Satellites; *14060*. SP305-6.

Time; Frequency and time code; Television; *11878*. SP305-3.

Time; Reference specimens; Dielectric constant; Dissipation factor; Frequency; Fluorinated ethylene-propylene; Humidity; Polycarbonate; Polyethylene; Poly(1,4-cyclohexylendimethylene terephthalate); Polystyrene; *J71C2-251*, 119-125 (1967). SP305.

Time; Time and frequency standards; Time scales; Broadcast time signals; Standard frequency and time signals; *9791*. SP305-1.

Time; Time code; Clock; Microprocessor; Satellite; *TN681*. SP305-8.

Time; Time coordination; Time interval; Time scales; Treaty of the Meter (standards); U.S.A. standard time zones; USNO time and frequency; Astronomical time measurements; Clock synchronization; Clocks; Coordinated Universal Time (UTC); Frequency; *TN649*. SP305-6.

Time; Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; Time scales; "unified standard"; URSI; USA standard time zones; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; *Monogr. 140*. SP305-6.

Time; Time dissemination; VLF propagation; Zonal harmonics; Diurnal phase; Omega; *TN610*. SP305-4.

Time; Time scale; Time scale precision; Atomic clock; Clock weighting factors; Flicker noise; Frequency stability; Noise; Synchronization; *12480*. SP305-4.

Time; Time signals; VLF propagation; Frequency; Portable clocks; Standard frequency broadcasts; *10015*. SP305-1.

Time; Time standards, universal time; Atomic time; Standards; *12264*. SP305-3.

Time; Time/frequency dissemination; Time scales; Timing (HF, LF, satellite, TV, VLF); Wavelength standards; WWV; WWVB; WWVH; WWVL; Atomic clocks; Atomic standards; Clock dissemination; Crystal oscillators; Definition of second; *SP350*. SP305-3.

Time; Timing accuracy; ATS satellite; LES-6 satellite; NBS satellite timing; Satellites; TACSAT satellite; *12103*. SP305-3.

Time; Transition; Coaxial; Cylindrical; Error; Line; Loss; Response; Skin effect; Step; *15696*. SP305-7.

Time; Unit cell; Annealing; Crystallization; Deformation; Density; Fold surface; Melt; Polyethylene; Solvent; Temperature; *10897*. SP305-2.

Time; Units of measurement; Length; Mass; Temperature; *10219*. SP305-1.

Time; USNO; Astronomical time; Atomic time; Frequency; International atomic time; Management; NBS; Standard time; *13062*. SP305-5.

Time; USNO; Astronomical time; Atomic time; Frequency; International Atomic Time; Management; NBS; Standard time; *14265*. SP305-6.

Time; Vaporization correction; Adiabatic calorimetry; Calorimeters; Calorimetry; Cryoscopy; Cryostats; Curvature correction; Heat-leak correction; Low temperature calorimetry; Phase studies; Phase transitions; Power; Premixing correction; Purity; *11189*. SP305-2.

Time; VLF; Dispersion; Range; *10372*. SP305-1.

Time and frequency; Acoustic quantities; Electrical quantities; Electromagnetic quantities; End-use measurements; Ionizing radiation; Measurement activities; Measurement institutions; Mechanical quantities; National Measurement System; Optical quantities; *NBSIR 75-943*. SP305-8.

Time and frequency; Acoustics; Atomic properties; Economic quantities; Ionizing radiation; Mechanical quantities; National measurement system; Optical quantities; Surface properties; Thermal quantities; *NBSIR 75-947*. SP305-8.

Time and frequency; Appliance labeling; Avogadro constant; Biomolecules; Computers; Energy; EPIC; Ground ladder; Metrology guides; Sales seminars; Standardization and measurement; *DIM/NBS 58*, No. 10, 217-239 (1974). SP305-6.

Time and frequency; Clocks; Frequency and time; Measurement of time and frequency; *16569*. SP305-8.

Time and frequency; Frequency broadcasts; History of broadcasts; Standards of time and frequency; *9572*. SP305-1.

Time and frequency; High frequency; Measurement; Microwave; Physical properties; Physical quantities; Physical Standards; Standards laboratory; *10189*. SP305-1.

Time and frequency; Time scales; Users of NBS radio broadcasts; Atomic frequency standards; Aviation industry; Electric power industry; National Measurement System; Positioning; Shipping and boating industries; Standards laboratories; *SP445-1*. SP305-8.

Time and frequency; Worldwide radio stations; Atomic time; Frequency and time; International Time Bureau; Standard audio frequencies; Standard radio frequencies; *9537*. SP305-1.

Time and frequency dissemination; Time code generator; Time code receiver; Frequency standard; Network path delay; Stability; *13064*. SP305-5.

Time and frequency dissemination; Time code generator; Time code receiver; Frequency standard; Network path delay; Stability; *13070*. SP305-5.

Time and frequency dissemination; TVTime; Digital code; Integrated circuit chip; Program captioning; Television; *1377*. SP305-5.

Time and frequency dissemination; VHF; VLF; HF; Noise; Satellite; Synchronization; *TN357*. SP305.

Time and frequency response; Two-fold model; BCS theory; Superconductive lines; *11374*. SP305-2.

Time and frequency standards; Time scales; Broadcast time signals; Standard frequency and time signals; *9791*. SP305-1.

Time base; Transition time; Mercury switch; Oscilloscope; Picosecond; Pulse; Random sampling; Risettime; Sampling; *13799*. SP305-5.

Time base; Traveling wave oscilloscope; High voltage pulsed; Nanosecond; Oscilloscope; Pulse generator; Sweep generator; *12481*. SP305-4.

Time broadcasts; Time code; VLF timing; Omega; Precision time; *13436*. SP305-5.

Time calibration; Time signals; Broadcast of standard frequencies; Frequency calibration; High frequency; Low frequency; Standard frequencies; Television color subcarrier; *SP4*. SP305-8.

Time code; Clock; Microprocessor; Satellite; Time; *TN6*. SP305-8.

Time code; VLF timing; Omega; Precision time; Time broadcasts; *13436*. SP305-5.



code generator; Time code receiver; Frequency standard; Network path delay; Stability; Time and frequency dissemination; 13064. SP305-5.

code generator; Time code receiver; Frequency standard; Network path delay; Stability; Time and frequency dissemination; 13070. SP305-5.

code receiver; Frequency standard; Network path delay; Stability; Time and frequency dissemination; Time code error; 13064. SP305-5.

code receiver; Frequency standard; Network path delay; Stability; Time and frequency dissemination; Time code error; 13070. SP305-5.

code receivers; VLF timing; Multiple frequency timing; Mega time code; Precise time receiver; Precise timing; 31. SP305-4.

comparison; Atomic clocks; Frequency stability; Portable clocks; Rubidium frequency standard; 16489. SP305-8.

comparison; Clock; Frequency stability; Frequency standard; 15674. SP305-7.

comparison; USNO; VLF propagation; WWVL; Effect of on frequency; Flicker noise; NBS; Noise correlation; Optimum filter; Phase noise; Radio propagation; 11241. SP305-2.

constant; Contaminants; Cryogenics; Eddy currents; Eddy rent tests; Electrical resistivity; Nondestructive tests; Purification; 12585. SP305-4.

constant; Cryogenic; Instrumentation; Measurement; rology; Response time; Sensor; Temperature; Thermometry; 9944. SP305-1.

constant; Time response; Oceanographic temperature measurements; Temperature measurement; Temperature sensor; Thermometry; 15074. SP305-7.

constants of pneumatic pressure lines; Time lag and delay pneumatic pressure-sensing lines; Time response of pneumatic pressure-sensing systems to step inputs; 10288. SP305-5.

constraints; University entrepreneurial activities; edemic risk; Business-Government-university relationship; ulty risk; SP388, pp. 37-43. SP305-6.

coordination; Time interval; Time scales; Treaty of the er (standards); U.S.A. standard time zones; USNO time frequency; Astronomical time measurements; Clock hronization; Clocks; Coordinated Universal Time (UTC); uency; TN649. SP305-6.

coordination, synchronization, and dissemination; C(NBS); AT(NBS); Clock dispersion; Clock ensemble; uency and time standards; International Atomic Time; an-C; Model of clock stability; Optimum time prediction; cision and accuracy of timing; 13998. SP305-6.

correlation; Autocorrelation; Correlation; Diffusion; Fluctuations; Relaxation; 13759. SP305-5.

correlation function; Argon; Bulk viscosity; Shear relaxation; Shear viscosity; Simple fluid; 9960. SP305-1.

correlation function; Depolarized Rayleigh scattering; al gas; Incoherent neutron scattering; Infrared absorption; uid state; Memory function; Projection operator; Raman tering; J78A No. 3, 413-420 (1974). SP305-6.

correlation function; Infrared absorption; Light scattering; uids; Magnetic resonance; Molecular dynamics; Neutron tering; Orientational correlation function; 11699. SP305-5.

correlation function; Transport coefficient; Cluster expansion method; Dense gases; Projection operator method; Self usion coefficient; 10931. SP305-2.

delay; CO<sub>2</sub> laser; Electrical discharge; Gas mixture; 94. SP305-7.

delay; Electronic circuit breaker; Mechanical load protection; Surge current; 11543. SP305-2.

delay; Satellite timing; Slant range; Synchronous satellites; 538. SP305-5.

Time delay spectrometry; Tissue; Transmission; Velocity; Attenuation; Phase; Swept frequency; SP453, pp. 81-95 (Oct. 1976). SP305-8.

Time dependence; Frequency dependence; Laser damage; Spot size dependence; SP462, pp. 338-345 (Dec. 1976). SP305-8.

Time dependent electric field gradients; Gunn effect; Nuclear magnetic resonance; 11378. SP305-2.

Time difference measurements; Time-domain frequency stability; Time interval; Frequency measurement; Frequency mixing; Global positioning system; Isolation amplifiers; Low-noise amplifiers; Precision frequency measurements; Precision time measurements; NBSIR 75-827. SP305-8.

Time dispersion; Time domain; Time/frequency statistics; Time scale algorithm; Time scales; "unified standard"; URSI; USA standard time zones; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); Monogr. 140. SP305-6.

Time dispersion; Time synchronization; TV timing; Allan variance; Cesium beam standards; Frequency stability; Frequency standards; Loran-C; Portable clocks; 12973. SP305-4.

Time dissemination; Time scale; Atomic clock; Cesium clock; Coordinate time; Flicker noise; Frequency standard; 14075. SP305-6.

Time dissemination; Time stability; Time synchronization; Time transfer; TV color subcarrier; 60-Hz power line; Atomic clock; Frequency calibration; Frequency stability; Optical pulsars; Remote clock comparisons; Simultaneous reception; 12986. SP305-4.

Time dissemination; Time transfer system; Cyclan; Cytac; Loran; Loran-C; Low frequency; Navigation; Pulse propagation; Radio positioning; Monogr. 129. SP305-4.

Time dissemination; Tracking; Clocks; Propagation delay; Satellites; Synchronization; 12647. SP305-4.

Time dissemination; VHF propagation satellite timing; Atomic standards; ATS-1; Clock synchronization; 11314. SP305-2.

Time dissemination; VLF propagation; Zonal harmonics; Diurnal phase; Omega; Time; TN610. SP305-4.

Time domain; Attenuation; Automated measurement; Network analyzer; Pulse; S parameters; 15661. SP305-7.

Time domain; Data conversion; Dynamic measurements; Electrical measurements; Electronic instrumentation; Signal conditioning; Systems; TN865. SP305-7.

Time domain; Time/frequency statistics; Time scale algorithm; Time scales; "unified standard"; URSI; USA standard time zones; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); BIH; Buffer gases; Monogr. 140. SP305-6.

Time domain; Transient; Automated measurement; Pulse; Rise time; Sampling oscilloscope; Spectrum amplitude; 16477. SP305-8.

Time domain; Voltage divider; Asymptotic expansion; Characteristic impedance; Coaxial line; Complimentary error function; Conductor; Cylindrical; Dielectric; Error; Generator; Lossy; Microminiature; Model; Planar; Propagation function; Pulse; Receiving end; Skin effect; 14347. SP305-6.

Time domain analysis; Attenuation; Discrete Fourier transform; Fast Fourier transform; Insertion loss; Jitter; Microwave measurement; Mismatch; Network analyzer; Noise; Pulse generator; Pulse measurement; Sampling oscilloscope; Scattering parameters; Spectral analysis; TN672. SP305-7.

Time domain deconvolution; Cable; Step response; Superconducting transmission line; 12397. SP305-4.

Time domain measurements; Time domain reflectometry; Homomorphic deconvolution; 16518. SP305-8.

Time domain measurements; Transient response Debye dielectric; Pulse distortion in transmission lines; Pulse techniques; Reference waveform generation; NBSIR 73-304. SP305-6.

Time domain reflectometer; Coaxial probe; Emptying rate; Fill rate; Liquid level; 13538. SP305-5.

- Time domain reflectometry; Homomorphic deconvolution; Time domain measurements; *16518. SP305-8.*
- Time domain stability; Allan variance; Flicker of phase noise; Frequency stability; Oscillator noise models; Phase noise spectral density; Quartz crystal oscillator; *12383. SP305-4.*
- Time domain stability; Crystal controlled oscillator; Fast linewidth; Quartz crystal resonators; Short-term stability; Spectral density of frequency fluctuations; *15673. SP305-7.*
- Time domain stability; Crystal controlled oscillator; Fast linewidth; Quartz crystal resonators; Short-term stability; Spectral density of frequency fluctuations; *15687. SP305-7.*
- Time domain testing; Automatic measuring devices; Automatic performance test; Computer control systems; Instrument calibration procedures; Instrument performance testing; Pulse technology; *SP335, pp. 23-28. SP305-3.*
- Time domain waveform; Transfer function; Discrete Fourier transform; Fast Fourier transform; Frequency spectra, discrete; Network transfer function; *13417. SP305-5.*
- Time, effect of, on compliance of rubber; Compliance of rubber; Creep, long-time, in rubber; Humidity, effect of, on creep of rubber; Modulus of rubber, effect of humidity; Oxygen, influence of, on creep of rubber; Rubber, natural, creep; *J.78A No. 5, 623-629 (1974). SP305-6.*
- Time effects; Uniaxial strain; Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; Elastic strain energy function; Finite strain; Non-linear behavior; Non-Newtonian fluids; Normal stresses; Pure shear; *9583. SP305-1.*
- Time interval; Frequency measurement; Frequency mixing; Global positioning system; Isolation amplifiers; Low-noise amplifiers; Precision frequency measurements; Precision time measurements; Time difference measurements; Time-domain frequency stability; *NBSIR 75-827. SP305-8.*
- Time interval; Time scales; Clock synchronization; Frequency and time dissemination; Primary frequency standard; Standard frequency broadcasts; *TN379-1. SP305-4.*
- Time interval; Time scales; Clock synchronization; Frequency and time dissemination; Primary frequency standard; Standard frequency broadcasts; *TN656. SP305-6.*
- Time interval; Time scales; Treaty of the Meter (standards); U.S.A. standard time zones; USNO time and frequency; Astronomical time measurements; Clock synchronization; Clocks; Coordinated Universal Time (UTC); Frequency; Frequency standards; *TN649. SP305-6.*
- Time intervals; Noise, signal; Photomultipliers; Signal noise ratio; Statistical properties; *9232. SP305.*
- Time lag and delay in pneumatic pressure-sensing lines; Time response of pneumatic pressure-sensing systems to step inputs; Response of pneumatic pressure-measurement systems in the free molecule, transition, and continuum flow regimes; *10288. SP305-1.*
- Time measurement; Chronograph; Frequency-stability measurement; Instrumentation; Laboratory technique; *TN691. SP305-8.*
- Time of analysis in NAA and AAS; Trace element content in liver biopsies; Trace element content in tumor bearing animals; Wilson's disease; Atomic absorption spectroscopy (AAS); Comparison between NAA and AAS; *SP422, pp. 231-238 (Aug. 1976). SP305-8.*
- Time of flight; Ilmenite concrete; Monte Carlo; Neutron attenuation; *SP425, pp. 409-414. SP305-7.*
- Time of set; Vane-shear apparatus; Cement; Cement mortar; Cement paste; Early strength; False set; Hardening of cement; Hydration; Shear resistance; Theory of cement hardening; *B5528. SP305-2.*
- Time of setting; Vicat; Autoclave soundness; Hydraulic cement; Normal consistency; Tensile strength; *10907. SP305-2.*
- Time ordering; Balmer lines; Four dimensional rotation group; Hydrogen; Plasma; Plasma broadening; Pressure broadening; Scattering matrix; Spectral line broadening; Stark broadening; Symmetry group; *15009. SP305-7.*
- Time resolution; Aerosol; California aerosol monitoring gram; Elemental analysis; Ion beam analysis; Monitoring; title sizing; *SP422, pp. 1119-1136 (Aug. 1976). SP305-8.*
- Time resolution; Density; Diagnostic; Electron; Interferom; Microwave; Plasma; *9698. SP305-1.*
- Time resolved damage; Adhesion effect; Laser induced damage; Optical probe technique; Thin film; *SP435, pp. 284 (Apr. 1976). SP305-8.*
- Time resolved damage; Damage induced reflectivity change; Laser induced damage; Laser induced surface acoustic waves; Surface; Surface breakdown plasma; Thin film; *SP372, pp. 104-107. SP305-4.*
- Time resolved laser damage; Laser induced film damage; Cation probe; Surface plasma; *SP387, pp. 133-137. SP305-5.*
- Time response; Oceanographic temperature measurement; Temperature measurement; Temperature sensors; Thermometry; Time constant; *15074. SP305-7.*
- Time response of pneumatic pressure-sensing systems to inputs; Response of pneumatic pressure-measurement systems in the free molecule, transition, and continuum flow regimes; Response of pneumatic pressure-sensing tubulation; Response of pneumatic transmission lines; *10288. SP305-1.*
- Time reversal; Charge conjugation; Parity; Relativity; Space version; *14388. SP305-6.*
- Time reversal; CP symmetry; CPT theorem; Elementary particles;  $K^0$  mesons; Symmetry; *12852. SP305-4.*
- Time reversal; Decay rates; Symmetry; TCP; *10866. SP305.*
- Time reversal; Weak interactions; CPT theorem; Decays; Mesons; *10867. SP305-2.*
- Time reversal symmetry; Counting independent parameters; Phonon dynamical matrix; *15216. SP305-7.*
- Time scale; Allan variance; Cesium beam; Frequency stability; Hydrogen maser; NBS frequency standard; *11922. SP305.*
- Time scale; Atomic clock; Cesium clock; Coordinate time; Flicker noise; Frequency standard; Time dissemination; *14075. SP305-6.*
- Time scale; Atomic clock model; Detection; Flicker noise; Sequential test; *TN636. SP305-5.*
- Time scale; Time scale precision; Atomic clock; Clock weighting factors; Flicker noise; Frequency stability; NBS Synchronization; Time; *12480. SP305-4.*
- Time scale; Time standards; Clocks; Frequency accuracy; Frequency stability; Frequency standards; Infrared frequency multiplication; Noise; *16488. SP305-8.*
- Time scale accuracy; Time scale stability; Clock stability model; Frequency calibration; Frequency stability; International time scale; *14000. SP305-6.*
- Time scale accuracy algorithm; Time scale stability; Coordination time scales; Frequency calibration; International frequency comparisons; Optimum frequency estimate; Primary frequency standards; Relativity; SI second; *15672. SP305-7.*
- Time scale algorithm; Time scales; "unified standard"; U.S.A. standard time zones; UTC (NBS); UTC (USNO); Atomic; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); BIH; Buffer gates; CCIR; Clock ensembles; Clocks; *Monogr. 140. SP305-6.*
- Time scale precision; Atomic clock; Clock weighting factors; Flicker noise; Frequency stability; Noise; Synchronization; Time; Time scale; *12480. SP305-4.*
- Time scale simulation; Frequency stability; International atomic time; Models; Simulation; *TN689. SP305-8.*
- Time scale stability; Clock stability model; Frequency calibration; Frequency stability; International time scale; Time scale accuracy; *14000. SP305-6.*
- Time scale stability; Coordinate time scales; Frequency calibration; International frequency comparisons; Optimum frequency estimate; Primary frequency standards; Relativity second; Time scale accuracy algorithm; *15672. SP305-7.*

- cales; Accuracy; Basic standards; Frequency; Frequency metrology; Stability; Standards; 12957. SP305-4.
- cales; Broadcast time signals; Standard frequency and time signals; Time; Time and frequency standards; 9791. SP305-1.
- cales; Clock synchronization; Frequency and time dissemination; Primary frequency standard; Standard frequency broadcasts; Time interval; *TN379-1*. SP305-4.
- cales; Clock synchronization; Frequency and time dissemination; Primary frequency standard; Standard frequency broadcasts; Time interval; *TN379*. SP305-1.
- cales; Clock synchronization; Frequency and time dissemination; Primary frequency standard; Standard frequency broadcasts; Time interval; *TN656*. SP305-6.
- cales; Time synchronization; Computer simulation; Flicker noise; Frequency drift; Optimum prediction; Third order feedback system; 10301. SP305-1.
- cales; Time synchronizations; TV timing; VLF timing; Atomic beams; Atomic clocks; Atomic standards; Atomic clocks; Clock synchronization; Coordinated U.T. dissemination; Frequency and time; Flicker noise; Frequency and time standards; *SP300. Volume 5*. SP305-4.
- cales; Timing (HF, LF, satellite, TV, VLF); Wavelength standards; WWV; WWVB; WWVH; WWVL; Atomic clocks; Atomic standards; Clock dissemination; Crystal oscillators; Definition of second; Flicker noise; Frequency; Frequency stability; *SP350*. SP305-3.
- cales; Treaty of the Meter (standards); U.S.A. standard time zones; USNO time and frequency; Astronomical time measurements; Clock synchronization; Clocks; Coordinated universal time (UTC); Frequency; Frequency standards; 149. SP305-6.
- cales; "unified standard"; URSI; USA standard time zone; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); Buffer gases; CCIR; Clock ensembles; Clocks; Crystallography; *Monogr. 140*. SP305-6.
- cales; Users of NBS radio broadcasts; Atomic frequency standards; Aviation industry; Electric power industry; National Measurement System; Position location; Shipping and fishing industries; Standards laboratories; Telephone industry specialized carriers; *SP445-1*. SP305-8.
- series; Exponential smoothing; Fatalities; Highway accidents; 13395. SP305-5.
- sharing; Computer-assisted-instruction; Information dissemination; Information recording; Machine-aided design; Memory organization; Microforms; Multiple-access systems; On-line systems; Output modes; Photocomposition and typesetting; *Monogr. 113, Volume 2*. SP305-2.
- sharing; Undergraduate education; Computer science; Computers; Hood College; Research tool; 14592. SP305-6.
- sharing; X-ray diffractometer; Automatic control; Computer control; Diffractometer; FORTRAN; Neutron diffractometer; Real-time data processing; *J74C Nos. 3 and 4*, 89-1970). SP305-2.
- signal noise; System designs; Transfer standards; Atomic vehicle location; Dissemination of time and frequency; Cable clocks; Radio propagation; Satellite time dissemination; Television time and frequency dissemination; Time frequency; 13433. SP305-5.
- signal noise; Time-frequency system designs; Transfer standards; Dissemination of time and frequency; Portable clocks; Radio propagation; Satellite time dissemination; Television time and frequency dissemination; 13435. SP305-5.
- signals; Broadcast of standard frequencies; Frequency metrology; High frequency; Low frequency; Standard frequencies; Television color subcarrier; Time calibration; 12. SP305-8.
- Time signals; Portable clocks; Satellite timing; Standard frequency; Standard frequency broadcasts; 9954. SP305-1.
- Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; *SP236, 1973 Edition*. SP305-5.
- Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; *SP236, 1972 Edition*. SP305-4.
- Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; *SP236, 1971 Edition*. SP305-3.
- Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; *M236, 1967 Edition*. SP305.
- Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; 9237. SP305.
- Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; *SP236, 1969 Edition*. SP305-1.
- Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; *SP236, 1968 Edition*. SP305-1.
- Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; *SP236, 1974 Edition*. SP305-6.
- Time signals; Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; *SP236, 1970 Edition*. SP305-2.
- Time signals; VLF propagation; Frequency; Portable clocks; Standard frequency broadcasts; Time; 10015. SP305-1.
- Time signals; WWV; High frequency; Standard radio frequencies; Time-frequency broadcasts; *TN611*. SP305-4.
- Time signals; WWV; High frequency broadcasts; Standard frequencies; 11468. SP305-2.
- Time signals; WWV; WWVH; Clocks; H. F. Broadcasts; Sunspot cycle; 12594. SP305-4.
- Time smearing; Deuterium; Moderator; Monte Carlo; Neutrons; Oxygen; Protons; time delay; 13345. SP305-5.
- Time stability; Atomic clocks; Frequency measurements; Frequency stability; Phase delay; Precise time metrology; Subpicosecond time difference measurements; 15684. SP305-7.
- Time stability; Time synchronization; Time transfer; TV color subcarrier; 60-Hz power line; Atomic clock; Frequency calibration; Frequency stability; Optical pulsars; Remote clock comparisons; Simultaneous reception; Time dissemination; 12986. SP305-4.
- Time standard; Frequency; Laser; Laser frequency measurement; Stabilization; Techniques; 12135. SP305-3.
- Time standard; Frequency stability; He-Ne laser; Laser stabilization; Length standard; Methane frequency standard; Saturated absorption; 12953. SP305-4.
- Time standards; Application of standards; Basic standards; Cesium standards; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen standards; Ion storage; Laser stabilization; Rubidium standards; Saturated absorption; 14830. SP305-7.
- Time standards; Application of standards; Basic standards; Cesium standards; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen standards; Ion storage; Laser stabilization; Rubidium standards; Saturated absorption; 15736. SP305-8.
- Time standards; Atomic frequency standards; Cesium beam; Flicker noise; Frequency stability; Frequency standards; Hydrogen maser; Long baseline interferometry; Quartz crystal oscillators; 11888. SP305-3.
- Time standards; Clocks; Frequency accuracy; Frequency stability; Frequency standards; Infrared frequency multiplication; Noise; Time scale; 16488. SP305-8.

- Time standards; Coaxial connectors; Electromagnetic properties of materials; Frequency standards; Lasers; Microwaves; Radio measurement methods; Radio measurement standards; 10013. SP305-1.
- Time standards; Unit of measurement; Unit of time; 10147. SP305-1.
- Time standards; Wall shift; Atomic clocks; Cesium beam; Clocks; Frequency fluctuations; Frequency standards; Hydrogen maser; Hyperfine separation; Maser; Noise; Standards; 10108. SP305-1.
- Time standards, universal time; Atomic time; Standards; Time; 12264. SP305-3.
- Time statistics; Allan variance analysis; Amplitude probability distribution; Amplitude statistics; Average crossing rate; Electromagnetic interference; Electromagnetic noise; Impulsive noise; Interpulse spacing distribution; Magnetic field strength; Man-made noise; *NBSIR 74-378. SP305-6.*
- Time synchronization; Computer simulation; Flicker noise; Frequency drift; Optimum prediction; Third order feedback system; Time scales; 10301. SP305-1.
- Time synchronization; Time transfer; TV color subcarrier; 60-Hz power line; Atomic clock; Frequency calibration; Frequency stability; Optical pulsars; Remote clock comparisons; Simultaneous reception; Time dissemination; Time stability; 12986. SP305-4.
- Time synchronization; TV timing; Allan variance; Cesium beam standards; Frequency stability; Frequency standards; Loran-C; Portable clocks; Time dispersion; 12973. SP305-4.
- Time synchronization; TV timing; Cesium beam standards; Frequency standards; Loran C; Portable clocks; 14269. SP305-6.
- Time synchronization; TV timing; USNO time scale; Atomic clock comparisons; Clock comparisons; Loran-C; NBS time scale; Portable clocks; 12584. SP305-4.
- Time synchronization; VLF propagation; Flicker noise; Meteor burst; Multi-loop servo; Oscillator correction; 9710. SP305-1.
- Time synchronizations; TV timing; VLF timing; Atomic beams; Atomic clocks; Atomic standards; Atomic time; Clock synchronization; Coordinated U.T. dissemination of frequency and time; Flicker noise; Frequency and time standards; *SP300. Volume 5. SP305-4.*
- Time system; TV time dissemination; TV timing system; Clocks; NBS TV timing; 12632. SP305-4.
- Time to failure; Ceramics; Cyclic failure; Relation to static failure; Slow crack growth; Tension/compression; 13920. SP305-6.
- Time to failure; Ceramics; Fracture; Fracture mechanics; Glass; Impact damage; Strength; Thermal shock; 14886. SP305-7.
- Time to ignition; Fire performance tests; Flame spread; Heat input; Heat release rate; Limiting oxygen index; Radiant panel; Smoke density; 16136. SP305-8.
- Time transfer; Accurate time dissemination; Optical pulsars; Precision timing; Simultaneous reception; Synchronization; 12959. SP305-4.
- Time transfer; TV color subcarrier; 60-Hz power line; Atomic clock; Frequency calibration; Frequency stability; Optical pulsars; Remote clock comparisons; Simultaneous reception; Time dissemination; Time stability; Time synchronization; 12986. SP305-4.
- Time transfer system; Cyclan; Cytac; Loran; Loran-C; Low frequency; Navigation; Pulse propagation; Radio positioning; Time dissemination; *Monogr. 129. SP305-4.*
- Time-average; Distribution; Holtsmark; Ion dynamics; Microfield; Plasma; 13466. SP305-5.
- Time-dependent microfield; Cluster expansion; Collective-coordinates; Distribution; Ion correlations; Microfield; Plasma; 14473. SP305-6.
- Time-dependent solutions; Uniform electric field; Dirac Klein-Gordon equations; *J72B No. 1, 37-42 (1968). SP. 1.*
- Time-dependent spectral density; Amplitude probability tribution; Coal mine noise; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; Fast Fourier Transform; Gaussian distribution; Impulsive noise; Magnetic field strength; *TN654. SP305-6.*
- Time-dependent spectral density; Amplitude probability tribution; Coal mine noise; Digital data; Electromagnetic interference; Electromagnetic noise; Electromagnetic noise (chemical); Emergency communications; Fast Fourier Transform; Gaussian distribution; *NBSIR 74-388. SP305-6.*
- Time-dependent spectral density; Amplitude probability tribution; Coal mine noise; Digital data; Electromagnetic communications; Electromagnetic interference; Electromagnetic noise; Fast Fourier Transform; Gaussian distribution; Impulsive noise; *NBSIR 74-389. SP305-6.*
- Time-dependent spectral density; Amplitude probability tribution; Coal mine noise, digital electromagnetic communications; Electromagnetic interference; Electromagnetic noise; Fast Fourier Transform; Gaussian distribution; Impulsive noise; *NBSIR 74-390. SP305-6.*
- Time-dependent spectral density; Amplitude probability tribution; Digital data; Electromagnetic interference; Electromagnetic noise; Emergency communications; Fast Fourier transform; Gaussian distribution; Impulsive noise; Magnetic field strength; *NBSIR 74-391. SP305-7.*
- Time-dependent theory; Lifetimes; One- and two-electron states; Stark quenching; 12859. SP305-4.
- Time-domain; Transient; Transmission; Analysis; Cables; Coaxial; Skin effect; 10304. SP305-4.
- Time-domain deconvolution; Deconvolution; Impedance prediction; Impediography; Impulse response; *SP453, pp. 253-303 (Oct. 1976). SP305-8.*
- Time-domain frequency stability; Time interval; Frequency measurement; Frequency mixing; Global positioning system; Isolation amplifiers; Low-noise amplifiers; Precision frequency measurements; Precision time measurements; Time frequency measurements; *NBSIR 75-827. SP305-8.*
- Time-domain reflectometer; Variable impedance; Characteristic impedance; Current distribution; General method; Mathematical solution; Rectangular transmission line; 10158. SP305-1.
- Time-frequency; Time signal noise; System designs; Transfer standards; Automatic vehicle location; Dissemination of time and frequency; Portable clocks; Radio propagation; Satellite time dissemination; Television time and frequency dissemination; 13433. SP305-5.
- Time-frequency broadcasts; Time signals; WWV; High frequency; Standard radio frequencies; *TN611. SP305-4.*
- Time/frequency dissemination; Time scales; Timing (HF, satellite, TV, VLF); Wavelength standards; WWV; WWVH; WWVL; Atomic clocks; Atomic standards; Clock dissemination; Crystal oscillators; Definition of second; Flicker noise; *SP350. SP305-3.*
- Time/frequency statistics; Time scale algorithm; Time scale "unified standard"; URSI; USA standard time zones; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); Buffer gases; CCIR; *Monogr. 140. SP305-6.*
- Time-frequency system designs; Transfer standards; Dissemination of time and frequency; Portable clocks; Radio propagation; Satellite time dissemination; Television time and frequency dissemination; Time signal noise; 13435. SP305-5.
- Time-invariant; Wide-range; Zero-crossing; Discrimination; Picosecond; Resolution; 10125. SP305-1.
- Timekeeping; Cesium beam; Clocks (atomic); Crystal oscillator; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen maser; Quartz crystal; Rubidium cell; *TN616. SP305-4.*



keeping; Cesium beam; Clocks (atomic); Crystal oscillators; Frequency accuracy; Frequency stability; Frequency standards; Hydrogen maser; Quartz crystal; Rubidium gas laser; *TN616. Revised March 1974. SP305-6.*

-of-flight; Activation method; Group constants; Iron; Neutron spectrum; One-dimensional transport calculation; Stainless steel; *SP425*, pp. 184-188. **SP305-7.**

-of-flight; After-pulse; Gamma flash; Neutron; Photomultiplier; Pulse; *12741. SP305-4.*

-of-flight; Associated-particle; Cross-section; Monte Carlo; Multiple scattering; Neutron; *TN499. SP305-1.*

-of-flight; Carbon; Neutron total cross section; Pulsed neutron sources; *14809. SP305-7.*

-of-flight; Compared with calculated excitation functions; Measured  $\sigma(E, 90^\circ)$  for ground, 45, 148 keV states; Nuclear reactions  $^{238}\text{U}(n,n')$ ,  $(n,n')$ ,  $E=0.9-2.7$  MeV; *SP425*, pp. 19-52. **SP305-7.**

-of-flight; Cross section; Hydrogen; Neutron;  $n-p$ ; Scattering; *12478. SP305-4.*

-of-flight; Cross section; Hydrogen; Neutron; Neutron-neutron scattering; Structure; *11448. SP305-2.*

-of-flight; Cross section;  $\text{MgF}_2$ ; Neutron; *12477. SP305-4.*

-of-flight; Detector; Flux; Monte Carlo; Neutrons; Scintillators; *SP425*, pp. 73-74. **SP305-7.**

-of-flight; Function; Mass number; Neutrons; Optical enthalpy;  $R$ -matrix; Strength; *14014. SP305-6.*

-of-flight; Hauser-Feshbach; Inelastic-scattering; Measurements;  $\text{MgF}_2$  range 2 to 4.5; Neutrons; *SP425*, pp. 871-874. **SP305-7.**

-of-flight; Total neutron cross sections;  $^{239}\text{Pu}$ ;  $^{238}\text{U}$ ;  $^{235}\text{U}$ ;  $V$  neutrons; *14435. SP305-6.*

-of-flight; 1-240 eV; Gross fission products; Neutron cross section; *SP425*, pp. 744-747. **SP305-7.**

-of-flight; 2 out of 3; 160 Mc/s; Coincidence; Direct-count; Gate; Nanosecond; *10126. SP305-1.*

-of-flight mass spectrometry; Transport species; Boron; Electric discharge; Germanium; Oxylfluorides; Reactive intermediates; Silicon; *10853. SP305-1.*

-of-flight method;  $^{90}\text{Nb}$ , Ag,  $^{127}\text{I}$ ,  $^{140}\text{Ba}$ ,  $^{197}\text{Au}$  and  $^{238}\text{U}$ ;  $\beta$  detector; Fe-filtered beam; Neutron capture cross section; Pulse-height weighting; *SP425*, pp. 802-805. **SP305-7.**

-of-flight technique; Uranium isotopes— $^{235}\text{U}$ ,  $^{238}\text{U}$ ,  $^{233}\text{U}$ ,  $^{236}\text{U}$ ; 0.001 to 30 MeV; Fission cross section ratios; Neutron accelerator; *SP425*, pp. 591-596. **SP305-7.**

-ordering; Unified theory; Lyman- $\alpha$ ; Stark-broadening; *108. SP305-3.*

-ordering; Unified theory; Lyman- $\alpha$ ; Stark-broadening; *monogr. 121. SP305-3.*

-ordering operator; Vacuum polarization; Weak interactions; Gauge invariance; Quantum electrodynamics; Renormalization; *14429. SP305-6.*

-resolved; Electrical discharge; Exploding wires; High-speed; Photographic; Spectrographic; *9623. SP305-1.*

-resolved electrical measurements; Voltage; Circuit; Electrical measurements; High-current circuit; High-current charge; High-voltage circuit; Resistive component; *9624. SP305-1.*

-resolved electrical measurements; Time-resolved spectroscopy; Electrical discharges; Exploding wire; High current; High speed; High speed photography; High temperature; High voltage; Light sources; *Monogr. 109. SP305-1.*

-resolved spectroscopy; AIO; Atomic spectra; Electrical charge; Exploding wire; Molecular spectra; *10470. SP305-*

High temperature; High voltage; Light sources; Time-resolved electrical measurements; *Monogr. 109. SP305-1.*

Time-resolved spectroscopy; TiO; AIO; Electrical discharges; Exploding wire; *10870. SP305-2.*

Time-resolved spectroscopy; Titanium; TiO; Aluminum; AlH; AIO; Atomic spectra; Electrical discharges; Exploding wires; Light sources; *9292. SP305.*

Time-reversal; Weak decays;  $CPT$ ;  $K^0$  meson; Symmetry; *12440. SP305-4.*

Time-series; Traffic fatalities; Exponential smoothing; Forecasting; *13510. SP305-5.*

Time-shared computer; Computer-controlled experiment; Data acquisition system; Digital scanner; Experiment-computer interface; Hall effect; System control module; Teletypewriter interface; *TN510. SP305-1.*

Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; Vacuum spectrometer; Computing; Digital readout; Electron probe; Gold analysis; Isotope dilution method; Laser probe; Liquid Q-switch; Mass attenuation coefficients; *TN422. SP305-1.*

Time-shared computer; X-ray absorption coefficients; X-ray fluorescence analysis; X-ray mass attenuation coefficients; Zinc analysis; Computing; Digital readout; Electron probe; Emulsion calibration; Emulsion sensitivity; Gold analysis; *TN452. SP305-1.*

Time-shared computer; X-ray spectroscopy; Analysis; Arc temperature; Atomic absorption spectrometry; Analog computer; Bibliography; Computer; Electrodeposition; Electron back scatter; Electron probe microanalyzer; Emission spectroscopy; Laser probe; *TN401. SP305.*

Time-shared computers; Vibration standard; Accelerometers; Calibration; Shakers; *9983. SP305-1.*

Timesharing; Bibliographies; Citations; Computer; Information retrieval; Remote consoles; *J.72B No. 1, 61-78 (1968). SP305-1.*

Time-sharing; Computer networks; Interactive computing; Man-machine interaction; Performance measurement; *TN880. SP305-7.*

Time-sharing; Computer systems; Optimization; Scheduling; *J. 76B Nos. 3 and 4, 107-117 (1972). SP305-4.*

Time-sharing; Remote access; Teletype; *TN419. SP305-1.*

Time-sharing; X-ray analysis; Absorption; Atomic number; Chemical elements; Computation procedure; Data reduction; Electron probe microanalysis; Fluorescence; *TN719. SP305-4.*

Time-sharing computer; X-ray spectroscopy; Analytical chemistry; Calculations; Computers; Emission spectroscopy; Programming; Spectrochemical analysis; *TN407. SP305-1.*

Time-sharing computers; User procedures; Automated networks; Automated systems; Data formats; Distributed data base; Information networks; Information system standards; On-line system reactive typewriters; Retrieval; *10575. SP305-1.*

Time-sharing systems evaluation; Computer evaluation; Computer performance; Computer scheduling; Hardware monitors; Simulation of computer systems; Software monitors; Systems design and evaluation; *SP401. SP305-6.*

Timetable for metrication; Conversion to metric; Government metrication; Metrication; Metric system; *SI 16231. SP305-8.*

Timing; UHF; Clocks; Delay; Ranging measurements; Satellites; Synchronization; *12536. SP305-4.*

Timing accuracy; ATS satellite; LES-6 satellite; NBS satellite timing; Satellites; TACSAT satellite; *Time 12103. SP305-3.*

Timing (HF, LF, satellite, TV, VLF); Wavelength standards; WWV; WWVB; WWVH; WWVL; Atomic clocks; Atomic standards; Clock dissemination; Crystal oscillators; Definition of second; Flicker noise; Frequency; Frequency stability; Lasers; *SP350. SP305-3.*

- Ti-Mo; Titanium-molybdenum (Ti-Mo) alloy; Tungsten (W); W-Re; Alloys; Bcc transition metal alloys; Charging effect; Electronic density of states; Ginzburg-Landau coherence length; G.P. zone; Hf-Ta; *SP323*, pp. 587-596. **SP305-4.**
- Tin; Aluminum; Beryllium; Cobalt; Copper; Compilation; Electrical resistivity; Gold; Indium; Iron; Lead; Low temperature; Magnesium; Molybdenum; Nickel; Niobium; Platinum; Silver; Tantalum; *TN365*. **SP305-1.**
- Tin; Binding energy shifts; Core level shifts; *16015*. **SP305-8.**
- Tin; Collision; Cross section; Electrons; Energy; Ionization; Photons; Silver; *10380*. **SP305-1.**
- Tin; EPR; Free radicals; Germanium; Irradiation; Low-temperature reaction; Organometallic compounds; Silicon; *J.73A No. 2, 201-206* (1969). **SP305-1.**
- Tin; Intermetallic; Mössbauer; Palladium alloys;  $\text{Sn}^{119\text{m}}$  source; Solid solution; *11659*. **SP305-2.**
- Tin; Tin point; Fixed point; Freezing point; Standards; *13599*. **SP305-5.**
- Tin; Transmittance; Ultraviolet; X-rays; Absorption; Films; Spectra; *9639*. **SP305-1.**
- Tin; Turbulence; Interface; Kinetics; Thermal convection; Thermal wave; *10798*. **SP305-1.**
- Tin; Vortex model; Electron tunneling; Ginzburg-Landau theory; Magnetic field; Superconduction; Thin film; *9640*. **SP305-1.**
- Tin; X-ray fluorescence; Gamma-excitation; Medium-weight elements; Molybdenum; Quantitative analysis; *10365*. **SP305-1.**
- Tin; 200 keV; 400 keV; Aluminum; Atomic binding effects; Copper; Gold; Inelastic cross sections; Ionization processes; Large angle electron scattering; *10904*. **SP305-2.**
- Tin chemistry; Chemical shift; Mössbauer spectroscopy; *10436*. **SP305-1.**
- Tin compounds; Use of filters; High resolution detector; Mössbauer; Quantitative analysis; Source-sample-detector geometry; *11420*. **SP305-2.**
- Tin ores; Mössbauer spectrometry; Quantitative analysis; Stannic oxide; *15358*. **SP305-7.**
- Tin oxide electrode; Transparent electrode; Adsorption; Anodic oxidation; Electrocatalysis; Semiconductor electrode; *SP455*, pp. 175-181 (Nov. 1976). **SP305-8.**
- Tin plate; Underplatings for gold; Wear of gold; Contact lubrication; Corrosion inhibitors; Electrical contacts; Gold plate; Palladium; Polymer in gold; Porosity in gold; Solder plate; Tin-nickel alloy; *SP452*, pp. 64-71 (Sept. 1976). **SP305-8.**
- Tin point; Fixed point; Freezing point; Standards; Tin; *13599*. **SP305-5.**
- Tin point; Triple point of water; Zinc point; Comparator; International Practical Temperature Scale of 1968; IPTS-68; Oxygen point; Platinum resistance thermometer; Temperature standard; *J. Res. 80A No. 3, 477-504* (1976). **SP305-8.**
- Tin point; Zinc point; Aluminium point; Calibration; Freezing point; Freezing-point cell; Platinum resistance thermometer; *15337*. **SP305-7.**
- Tin standard for chemical shift; PARLORS program for Mossbauer spectra; Mossbauer instrumentation; Mossbauer laboratories; Radiometric trace chromatography; Radioisotope dilution; Substoichiometry by controlled potential coulometry; Radiochemical separations; *TN404*. **SP305.**
- Tin standard for chemical shift; Computers; Cross sections; Detection limits for analysis; Flux monitors; Mossbauer instrumentation; Mossbauer spectroscopy; NBS Linac; Nickel-61; PARLORS program for Mossbauer spectra; Photoneutron reaction; *TN421*. **SP305.**
- Tinfoil electrodes; Anomalous d-c conductance; Conductive rubber electrodes; Epoxy; Polycarbonate; Polystyrene; Polyvinylbutyl; Polyvinylchloride; *10056*. **SP305-1.**
- TiNi; Absorption correction; Density of states; Lifetime broadening; Nickel; Overlapping spectra; Soft x-ray spectra of alloys; Temperature broadening; Ti-Al system; *105*. **SP305-1.**
- TiNi;  $\text{Ti}_2\text{Te}$ ; Binary alloys;  $\text{Bi}_2\text{Te}_3$ ; CdSb; Copper-gold (Cu-Au); Cu<sub>3</sub>Au; CuPt; Cu<sub>3</sub>Pt; Ductility; Electrical resistivity; Hall effect; *SP323*, pp. 483-492. **SP305-4.**
- TiNi intermetallic compound; Transition probability energy; Aluminum; Density of states; L-emission band, M-emission band; Ni-Al system; Nickel; Soft x-ray spectroscopy; *108*. **SP305-2.**
- TiNiSi;  $\text{Fe}_2\text{P}$  and  $\text{Mn}_2\text{Si}_2$ ; Metal-metal bonding; Metal-site occupancies;  $\text{Ni}_2\text{In}$ ; Ordered ternary silicides and germanides; Silicides and germanides; Ternary  $\text{Ni}_2\text{In}$ -related phases; *SP3*, pp. 613-622. **SP305-4.**
- Tin-nickel alloy; Tin plate; Underplatings for gold; Wear of gold; Contact lubrication; Corrosion inhibitors; Electrical contacts; Gold plate; Palladium; Polymer in gold; Porosity in gold; Solder plate; *SP452*, pp. 64-71 (Sept. 1976). **SP305-8.**
- Tin-113; Dose calibrators; Indium-113m; Molybdenum-99; Nuclear medicine; Radiopharmaceuticals; Technetium-99; *TN791*. **SP305-5.**
- TiO; AIO; Electrical discharges; Exploding wire; Time-resolved spectroscopy; *10870*. **SP305-2.**
- TiO; Aluminum; AlH; AIO; Atomic spectra; Electrical discharges; Exploding wires; Light sources; Time-resolved spectroscopy; Titanium; *9292*. **SP305.**
- TiO<sub>2</sub>;  $\text{Mo}^{5+}$ ; Paramagnetic relaxation; Temperature dependence; *10628*. **SP305-1.**
- TiO<sub>2</sub>;  $\text{TiO}_2\text{-Cr}_2\text{O}_3$  system; Crystallographic shear; Rutile; Swinging shear planes; *SP364*, pp. 197-204. **SP305-4.**
- TiO<sub>2</sub> solvent;  $\text{Ba}_2\text{TiSi}_2\text{O}_8$ ;  $\text{BaTiSiO}_5$ ; Crystal growth; Fresnel; Phosphor; Piezoelectric; System  $\text{BaTiO}_3\text{-SiO}_2$ ; *J.74A No. 229-232* (1970). **SP305-2.**
- TiO<sub>2</sub>-Cr<sub>2</sub>O<sub>3</sub> system; Crystallographic shear; Rutile; Swinging shear planes; *SP364*, pp. 197-204. **SP305-4.**
- TiO<sub>2</sub>-IrO<sub>2</sub> system; Dissociation; Phase relations;  $\text{SnO}_2\text{-IrO}_2$  system; Solid solution; *J.71A2-441, 119-123* (1967). **SP305-2.**
- Tip rotary inertia; Transmissibility; Vacuum; Air; Resonances; Cantilever beam; Damping; Mass-loading; Resonances; *11092*. **SP305-2.**
- Tipping; Home playground equipment; Stability; Strength; Testing; *NBSIR 74-621*. **SP305-7.**
- Tire construction; Traction; Brakes; Coefficient of friction; Shocks; *12963*. **SP305-4.**
- Tire contact; Tire cord; Tire stress; Tire structure; Tires; Vehicle; Friction; Rubber; Skid; *Monogr. 122*. **SP305-4.**
- Tire cord; Tire stress; Tire structure; Tires; Vehicles; Friction; Rubber; Skid; Tire contact; *Monogr. 122*. **SP305-4.**
- Tire disablement; Tire inflation; Tire loading; Tire pressure; Tires; Tire use; Tread wear; Accident; Review; Survey; *TN528*. **SP305-2.**
- Tire footprint; Contact area; Silicon solar cell; Tires; *115*. **SP305-2.**
- Tire groove insert; Tire regrooving; Waveguide, precision fabrication; Waveguide, adjustable width; Weathering test; Wheel shaft angle, shifting during rotation; Wind vane, damped; Accelerated weathering test; Acoustic distortion, cancellation; *TN536*. **SP305-2.**
- Tire inflation; Tire loading; Tire pressure; Tires; Tire use; Tire wear; Accident; Review; Survey; Tire disablement; *TN5*. **SP305-2.**
- Tire loading; Tire pressure; Tires; Tire use; Tread wear; Accident; Review; Survey; Tire disablement; Tire inflation; *TN528*. **SP305-2.**
- Tire noise; Transportation noise; Acoustics; Noise (sound); *13727*. **SP305-5.**
- Tire noise; Transportation noise; Acoustics; Automobile; Noise (sound); *13807*. **SP305-6.**
- Tire noise; Transportation noise; Acoustics; Noise (sound); *14650*. **SP305-6.**

- noise; Transportation noise; Trucks; Acoustics; Noise measurement; Noise (sound); 14719. SP305-6.
- noise; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; 14873. SP305-7.
- noise; Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; 14874. SP305-7.
- noise; Transportation noise; Truck; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; 15002. SP305-7.
- noise; Transportation noise; Acoustics; Noise (sound); 1506. SP305-7.
- noise; Transportation noise; Acoustics; Automobile; Noise (sound); 15312. SP305-7.
- noise; Transportation noise; Truck; Acoustics; Noise measurement; Noise (sound); 15792. SP305-8.
- noise; Transportation noise; Truck; Acoustics; Noise measurement; Noise (sound); 16370. SP305-8.
- noise; Truck tires; Acoustics; Military vehicles; Noise; Sound; 14875. SP305-7.
- pressure; Air; Building codes; Computer tapes; Energy; Helicopters; Mobile homes; Phase diagrams; DIM/NBS 60, 12, 1-24 (1976). SP305-8.
- pressure; Air towers; TNS12. SP305-2.
- pressure gages; Tire use; Tread wear; Accident; Review; Survey; Tire disablement; Tire inflation; Tire loading; TNS28. SP305-2.
- regrooving; Waveguide, precision fabrication; Waveguide, adjustable width; Weathering test; Wheel-shaft angle, shifting; Wind rotation; Wind vane, damped; Accelerated weathering; Acoustic distortion, cancelling; Averaging wind vane; 15336. SP305-2.
- strength; Winter; Bias ply; Breaking energy; Passenger car; Radial; Tires; 11833. SP305-3.
- stress; Tire structure; Tires; Vehicles; Friction; Rubber; Tire contact; Tire cord; *Monogr. 122. SP305-4.*
- structure; Tires; Vehicles; Friction; Rubber; Skid; Tire contact; Tire cord; Tire stress; *Monogr. 122. SP305-4.*
- system research; Braking system; Occupant restraint system research; Research information exchange; Role of motor vehicle safety; 9604. SP305-1.
- use; Tread wear; Accident; Review; Survey; Tire disablement; Tire inflation; Tire loading; Tire pressure gages; TNS28. SP305-2.
- pavement interface forces; Calibration procedures; Force rate; Pavement skid resistance; Skid accident reduction; NBSIR 75-738. SP305-7.
- pavement interface forces; Wet pavement; Accident reduction; skidding; Correlation, skid resistance; Highway safety; Measurement, skid resistance; Pavement, skid resistance; Pavement wetting system; NBSIR 76-1133. SP305-8.
- Cut growth; Cutting; Road test; 11495. SP305-2.
- Noise; Pavement macrotexture; Profile tracer; NBS-GCR-11-35. SP305-8.
- Temperature sensitivity; J73C Nos. 1 and 2, 21-24 (1969). SP305-1.
- Tire footprint; Contact area; Silicon solar cell; 11553. SP305-2.
- Tire strength; Winter; Bias ply; Breaking energy; Passenger car; Radial; 11833. SP305-3.
- Traction; Tractorizing; Siping; Stability; Stopping distance; TNS66. SP305-3.
- Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; 12329. SP305-3.
- Tread wear testing; Statistics; TN486. SP305-1.
- Vehicles; Friction; Rubber; Skid; Tire contact; Tire cord; Tire stress; Tire structure; *Monogr. 122. SP305-4.*
- Tires; Winter tires; Bias ply; Grading; Passenger car tires; Radial tires; Speed capability; 11494. SP305-2.
- Tires; Winter tires; Bias ply; Grading; Passenger car tires; Radial tires; Speed capability; 11496. SP305-2.
- Tires, passenger car; Wear; Construction; Maintenance; Passenger car tires; Safety; C152. SP305-2.
- Tishomingo; Alloy; Austenite; Electron microscopy; Iron-nickel; Martensite; Meteorite; 15764. SP305-8.
- Tissue; Dosimeter; Radiography; Radiotherapy; SP425, pp. 527-532. SP305-7.
- Tissue; Energy deposition; Neutron dosimetry; Secondary particle spectra; 12326. SP305-5.
- Tissue; Trace; Variance; Activation; Analysis; Biological; Blood; Bone; Botanical; Destructive; Homogeneity; Leaves; Liver; Neuron; Non-destructive; Reference; 10790. SP305-1.
- Tissue; Trace element analysis; Water pollution; Atomic absorption; Bluegills; Cadmium; Fish; Heavy metal; SP422, pp. 1063-1072 (Aug. 1976). SP305-8.
- Tissue; Transmission; Velocity; Attenuation; Phase; Swept frequency; Time delay spectrometry; SP453, pp. 81-95 (Oct. 1976). SP305-8.
- Tissue; Tumor; Ultrasonic; Velocity; Absorption; Attenuation; Brain; Neoplasm; TAST; Thermal effects; SP453, pp. 153-163 (Oct. 1976). SP305-8.
- Tissue; Ultrasound; Velocity; Acoustic imaging; Acoustic microscopy; Attenuation; Frequency dependence; Impedance; Microstructural analysis; SP453, pp. 261-267 (Oct. 1976). SP305-8.
- Tissue; Water; Absorbed dose; Beta-rays; Electrons; Internal dosimetry; 12630. SP305-4.
- Tissue bearing; Denture base; Protective; Resilient liners; Temporary expedients; 12250. SP305-3.
- Tissue characterization; Tissue parameters, tissue signature; Tumor; Ultrasonic spectroscopy; Ultrasound; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; Medical diagnosis; Microscopy; Pattern recognition; Reconstruction; Scattering; SP453. SP305-8.
- Tissue characterization; Tissue signature; Ultrasonic diagnosis; Ultrasound; Applied research; Imaging; Instrumentation technology; Medical ultrasonics; NSF; RANN; R & D incentives; SP453, pp. 7-10 (Oct. 1976). SP305-8.
- Tissue characterization; Tissue parameters; Tumor detection; Ultrasound; Diagnosis; Doppler effect; Optimization; Resonance; Scattering; SP453, pp. 11-17 (Oct. 1976). SP305-8.
- Tissue characterization; Ultrasound; Blood; Cross-section; Diagnosis; Scattering; Standardization; SP453, pp. 29-47 (Oct. 1976). SP305-8.
- Tissue characterization; Ultrasonic spectroscopy; Ultrasound diagnosis; Acoustic impedance; Bragg diffraction; Computer processing; Frequency-dependent attenuation; Internal scattering; Myocardial infarction; Scattering; Surface scattering; SP453, pp. 167-196 (Oct. 1976). SP305-8.
- Tissue characterization; Ultrasound; Bragg diffraction; Diagnosis; Frequency dependence; Orientation dependence; Scattering; SP453, pp. 197-206 (Oct. 1976). SP305-8.
- Tissue characterization; Ultrasound; Diffraction; Fourier transform; Scattering; SP453, pp. 213-228 (Oct. 1976). SP305-8.
- Tissue equivalent; Calorimeter; Dosimetry; Fast neutron; SP456, pp. 327-333 (Nov. 1976). SP305-8.
- Tissue modification; Ceric ion initiated grafting; Chemical attachment to ratskin; Grafting to tissues; Persulfate initiated grafting; Surface grafting; 14880. SP305-7.
- Tissue modification; Collagen; Graft polymers; Hard tissue; Soft tissue; Surface grafting; 14617. SP305-6.
- Tissue parameters; Tumor detection; Ultrasound; Diagnosis; Doppler effect; Optimization; Resonance; Scattering; Tissue characterization; SP453, pp. 11-17 (Oct. 1976). SP305-8.

- Tissue parameters; Ultrasound; Velocity; Absorption; Attenuation; Mammalian tissues; *SP453*, pp. 21-28 (Oct. 1976). **SP305-8.**
- Tissue parameters, tissue signature; Tumor; Ultrasonic spectroscopy; Ultrasound; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; Medical diagnosis; Microscopy; Pattern recognition; Reconstruction; Scattering; Tissue characterization; *SP453*. **SP305-8.**
- Tissue reaction; Biocompatibility; Inflammatory response; Plasma polymers; *SP415*, pp. 13-17. **SP305-7.**
- Tissue signature; Ultrasonic diagnosis; Ultrasound; Applied research; Imaging; Instrumentation technology; Medical ultrasonics; NSF; RANN; R & D incentives; Tissue characterization; *SP453*, pp. 7-10 (Oct. 1976). **SP305-8.**
- Tissue standard; Trace analysis; Biological standards; Blood standard; Botanical standards; Environmental samples; Standard Reference Material; *I2132*. **SP305-3.**
- Tissue structure; Ultrasound; Color-coded B-scan; Fourier transform; Spectral analysis; *SP453*, pp. 97-107 (Oct. 1976). **SP305-8.**
- Tissue surfaces; Bone; Chemical grafting; Collagen; Ratskin; Surface modification; *15185*. **SP305-7.**
- Tissues; Ultrasound; Acoustic attenuation; Acoustic velocity; Breast tumor; Computerized tomography; Heart; Reconstruction; Refractive index; Synthetic focus; *SP453*, pp. 109-119 (Oct. 1976). **SP305-8.**
- Titanates; Ceramic; Ferroelectric; Mixed compounds; Semiconductors; Superconductivity; *9726*. **SP305-1.**
- Titanic complexes; Titanium trichloride; Electron spin resonance; Free radicals; Hydroperoxyl radical; Hydroxyl radical; *10943*. **SP305-2.**
- Titanium; Absolute transition probabilities; Arc; Beam foil; Experimental; Lifetimes; *13366*. **SP305-5.**
- Titanium; Absolute transition probabilities; Arc; Beam foil; Experimental; Lifetimes; *13676*. **SP305-5.**
- Titanium; Alloys; Biological; Corrosion; Electron microscopy; Implant; Saline solution; *13600*. **SP305-5.**
- Titanium; Combustion; Hilbert transform; Laser ignition; Oxygen; *15345*. **SP305-7.**
- Titanium; Combustion; Laser ignition; Spectra (visible); *14723*. **SP305-7.**
- Titanium; Corrosion; Crystallographic orientation; Electrochemical polarization; Electron channeling; *14055*. **SP305-6.**
- Titanium; Corrosion; Electron microscopy; Pressure; Salt water; *13602*. **SP305-5.**
- Titanium; Corrosion; Microstructures; *15765*. **SP305-8.**
- Titanium; Corrosion; Passivation; Single crystals; Sulfuric acid; *14747*. **SP305-7.**
- Titanium; Ellipsometry; Optical constants; *14129*. **SP305-6.**
- Titanium; Field-ion microscopy; Hydrogen; *15773*. **SP305-8.**
- Titanium; Hydrides; Hydrogen; Nuclear magnetic resonance; *10949*. **SP305-2.**
- Titanium; TiO; Aluminum; AlH; AlO; Atomic spectra; Electrical discharges; Exploding wires; Light sources; Time-resolved spectroscopy; *9292*. **SP305.**
- Titanium; Titanium alloy corrosion; Electron microscopy; Hot saline water corrosion; Oxide films; *12494*. **SP305-4.**
- Titanium; Titanium dioxide; Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical properties; Chemical analysis; Chromium ions; Corundum; Crystal defects; Crystal growth; Density of states; Diffusion; Glass; *TN565*. **SP305-3.**
- Titanium; Titanium tetrabromide; Titanium tetrachloride; Hydrogen bromide; *11005*. **SP305-2.**
- Titanium; Titanium 8-1-1; Vapor phase failure; Methanol; Stress corrosion; *10503*. **SP305-1.**
- Titanium; Transducer calibration; Ultrasonic reference blocks; Acoustic emission; Aluminum; Fatigue cracks; Flat bottomed holes; Standards; Steel; *16252*. **SP305-8.**
- Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Fracture; Glass; High temperature materials; Homogeneities in glass; Laser damage; Laser glass; *Lase TN514*. **SP305-2.**
- Titanium; Transition; Band structure; Chemical analysis; Copper; Creep; Crystal defects; Crystal growth; Diffusion; Evaporation; Glass; High temperature materials; Homogeneities in glass; Laser damage; Laser glass; *Lase TN514*. **SP305-2.**
- Titanium; Transition probabilities; Allowed transitions; Li strengths; Oscillator strengths; Scandium; *J. Phys. Chem. R. Data* 4, No. 2, 263-352 (1975). **SP305-7.**
- Titanium; Transmission electron microscopy; Microstructure; *15777*. **SP305-8.**
- Titanium; Tubing; Corrosion; NaCl solution; Passivation; Sulfuric acid; *14516*. **SP305-6.**
- Titanium; Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; D fusion; Electromigration; Europium; Grain boundary diffusion; Hydrogen; Impurity diffusion; *J. Phys. Chem. Ref. Data* 4, No. 1, 177-250 (1975). **SP305-7.**
- Titanium; Ultrahigh vacuum; Adhesion; Basalt; Fiberglass; Friction; Steel; *SP336*, pp. 225-244. **SP305-3.**
- Titanium; Underground; Corrosion; Exposure sites; Pipe; Stress corrosion; Steel; *11106*. **SP305-2.**
- Titanium; Wear; Curing agent; Fretting; Silicone resin; Sol lubricants; *SP452*, pp. 124-131 (Sept. 1976). **SP305-8.**
- Titanium; Yields; Aluminum; Beryllium; Carbon; Copper; Electron excitation; Gold; K x-ray beams; Purities; Silver; *1426*. **SP305-6.**
- Titanium alloy; Aluminum alloy; Electrical resistivity; Lorentz ratio; Nickel alloy; Thermal conductivity; Thermopower; *11336*. **SP305-2.**
- Titanium alloy; Creep; Elevated temperature; Engineering design; Notch geometry; Stress concentration; Stress-rupture; *J74C Nos. 1 and 2*, 27-37 (1970). **SP305-2.**
- Titanium alloy; Creep; Engineering design; High temperature Phase changes; Rupture; *J72C No. 2*, 167-174 (1968). **SP305-1.**
- Titanium alloy; Electron beam welding; Fatigue; Fracture toughness; Low temperature tests; Mechanical properties; *NBSIR 76-836*. **SP305-8.**
- Titanium alloy; Transport properties; Aluminum alloy Cryogenics; Electrical resistivity; Lorenz ratio; Nickel alloy Seebeck effect; Thermal conductivity; *J75A No. 4*, 269-27 (1971). **SP305-3.**
- Titanium alloy; Tribo-ellipsometry; Repassivation kinetics; Stress corrosion cracking; *14189*. **SP305-6.**
- Titanium alloy corrosion; Electron microscopy; Hot saline water corrosion; Oxide films; Titanium; *12494*. **SP305-4.**
- Titanium alloys; Alloys-aluminum; Aluminum alloys; Magnesium alloys; Orthopedics, metals; *10024*. **SP305-1.**
- Titanium alloys; Aluminum alloys; Copper alloys; Cryogenic Electrical conductivity; Iron alloys; Nickel alloys; *1187*. **SP305-3.**
- Titanium alloys; Aluminum alloys; Copper-nickel alloy Cryogenics; Specific heat; Stainless steel; Thermal expansion; *12784*. **SP305-4.**
- Titanium alloys; Aluminum alloys; Copper alloys; Electrical resistivity; Iron alloys; Nickel alloys; *11731*. **SP305-2.**
- Titanium alloys; Aluminum alloys; Composites; Elastic properties; Engineering materials; Fatigue; Fracture; Iron alloy Cryogenic temperatures; Maraging steels; Mechanical properties; Nickel alloys; Phenolformaldehyde; Stainless steels; Superconducting machinery; *NBSIR 76-848*. **SP305-8.**
- Titanium alloys; Chloride; Crevice corrosion; Dissolved oxygen Ellipsometry; Nitrates; PH; Repassivation kinetics; Stainless steel; Stress corrosion cracking; *13769*. **SP305-5.**



nium alloys; Crack propagation; Cryostats; Fracture tests; Low temperature tests; Mechanical tests; 16640. SP305-8.  
 nium alloys; Experimental techniques for stress corrosion testing; High strength steels; Hydrogen embrittlement; Low carbon steels; Stainless steels; Stress-corrosion; 10390. SP305-1.  
 nium alloys; Fatigue crack propagation; Fracture toughness; Integral; Low temperature tests; 16531. SP305-8.  
 nium alloys; Tool steels; Ultrahigh strength; Alloy steels; Work hardened steels; Cold-drawn steels; Dispersion hardened alloys; Fiber and whisker reinforced materials; Maraging steels; Refractory alloys; Stainless steels; Strengthening mechanisms; 789. SP305-4.  
 nium alloys; Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Poisson's ratio; Shear modulus; Sound velocity; 14172. SP305-6.  
 nium bearing steels; Chromium diffusion coating; Columnar grains; Fatigue crack initiation; Fatigue crack propagation; Residual stress; 12087. SP305-3.  
 nium compounds; Electron concentration; Electronic density of states; Localized states; Soft x-ray; SP323, pp. 329-333. SP305-4.  
 nium compounds; Vanadium compounds; Yttrium compounds; Zirconium compounds; Enthalpy; Entropy; Gibbs energy of formation; Hafnium compounds; Heat of formation; Niobium compounds; Scandium compounds; Tantalum compounds; TN270-5. SP305-3.  
 nium dioxide; Acetonitrile; Cyclic voltammetry; Electrochemistry; Nonaqueous; Semiconductor; Silicon; SP455, p. 149-152 (Nov. 1976). SP305-8.  
 nium dioxide; Copper; EPR; g-factors; Hyperfine interaction; Quadrupole coupling; Rutile; 11804. SP305-3.  
 nium dioxide; Phase equilibria; Polymorphism; Tantalum pentoxide; J.72A No. 2, 175-186 (1968). SP305-1.  
 nium dioxide; Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical properties; Chemical analysis; Chromium oxides; Corundum; Crystal defects; Crystal growth; Density of states; Diffusion; Glass; High temperature materials; TN565. SP305-3.  
 nium dioxide; Transition-metal oxides; Defect states; d-electrons; Electrolyte electroreflectance; Surface states; SP455, p. 125-131 (Nov. 1976). SP305-8.  
 nium dioxide; Whiteness; Color difference; Colorimetry; Color-matching functions; 11009. SP305-2.  
 nium disulfide; Titanium-vanadium disulfides; Vanadium sulfide; Disulfides; Electrical conductivity; Magnetic properties; Sulfides; SP364, pp. 663-671. SP305-4.  
 nium isotopes; Elastic electron scattering; Nuclear charge distribution; Nuclear radii; 12510. SP305-4.  
 nium oxides; Ti-8-1-1 alloy; Hot salt cracking; LiCl-KCl eutectic; Stress-corrosion; 11371. SP305-2.  
 nium tellurite; Crystal structure; "lone pair" structures; Tellurites; Tellurium dioxide; Tellurium hypovanadate; SP364, p. 29-39. SP305-4.  
 nium tetrabromide; Titanium tetrachloride; Hydrogen bromide; Titanium; 11005. SP305-2.  
 nium tetrachloride; Hydrogen bromide; Titanium; Titanium tetrabromide; 11005. SP305-2.  
 nium (Ti); Zirconium (Zr); Copper; Direct versus indirect transitions; Electronic density of states; Gold (Au); Indirect transitions; Optical density-of-states; Photoemission; Scandium (Sc); Silver (Ag); SP323, pp. 205-208. SP305-4.  
 nium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference blocks; Fabrication of reference blocks; Immersion testing; Longitudinal waves; Metallurgical variables; Nondestructive testing; Pulse-echo; Steel ultrasonic standards; NBSIR 75-685. SP305-7.

Titanium ultrasonic standards; Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference standards; Calibration; Fabrication variables; Immersion testing; Interim reference standard; Longitudinal waves; Metallurgical variables; Nondestructive evaluation; NBSIR 76-984. SP305-8.  
 Titanium 8-1-1; Vapor phase failure; Methanol; Stress corrosion; Titanium; 10503. SP305-1.  
 Titanium 8-1-1 alloy; Corrosion products; High temperature corrosion; Preoxidation; Salt stress corrosion; Solid state reactions; Stress-corrosion cracking; 9901. SP305-1.  
 Titanium-molybdenum (Ti-Mo) alloy; Tungsten (W); W-Re; Alloys; Bcc transition metal alloys; Charging effect; Electronic density of states; Ginzburg-Landau coherence length; G.P. zone; Hf-Ta; Low-temperature specific heat; SP323, pp. 587-596. SP305-4.  
 Titanium-nickel heat capacity; Titanium-nickel phase transition; 10315. SP305-1.  
 Titanium-nickel phase transition; Titanium-nickel heat capacity; 10315. SP305-1.  
 Titanium-vanadium disulfides; Vanadium disulfide; Disulfides; Electrical conductivity; Magnetic properties; Sulfides; Titanium disulfide; SP364, pp. 663-671. SP305-4.  
 Titanium; Alloys; Cobalt; Ferromagnetism; Hyperfine fields; Iron; Moments; Mossbauer effect; Superconductivity; 9576. SP305-1.  
 Title word index; Author index; Coden; Computer bibliography; Information retrieval; Permuted index; SP309, Volume 2. SP305-1.  
 Titles; Abstracts; Chemistry; Content of articles; Data; Description of experiments; Evaluation of data; Numerical data; Publication standards; 11806. SP305-3.  
 Titration; Wind wave; Work positioner; Conductometry; Decoding matrix; Fluoroolefins; Integrator; Magnetic sensing probe; Magnetic tape; Microbridge; Numbering machine; Perfluorostyrene; Shaft position encoder; Staple detector; Superconducting; TN744. SP305-4.  
 Titration curve; Ion binding; Nearest-neighbor interaction; Oligopeptide; 14544. SP305-6.  
 Titrations; Acid-base behavior; Acidity and basicity scales; Aprotic organic solvents; Hydrogen bonding; 11997. SP305-3.  
 Titrations; Acid-base behavior; Acidity and basicity scales; Aprotic organic solvents; Hydrogen bonding; Monogr. 105. SP305-1.  
 Titrations; Zinc; Batch; Column; Cationic exchanger; EDTA; Radiometric; 10386. SP305-1.  
 Titrimetry; Absorption and fluorescence spectrophotometry; Arsenic; Atomic absorption; Beryllium; DTA studies; Dysprosium in a glass; Flame emission; Gases in metals; Gravimetry; Homogeneous precipitation; Impurities in zinc and selenium; TN424. SP305-1.  
 Ti-6Al-4V; Uniaxial loading; 4340 steel; Bending; Capacitance strain gage; Tensile; 13648. SP305-5.  
 Ti-8-1-1 alloy; Hot salt cracking; LiCl-KCl eutectic; Stress-corrosion; Titanium oxides; 11371. SP305-2.  
 Ti; Critical field; Density of states; In; Pressure dependence; Superconductivity; SP323, pp. 681-684. SP305-4.  
 TiB<sub>2</sub>; Isoelectronic systems; 16393. SP305-8.  
 TLD; Dosimetry; Ion chamber; Patient; Precision; Therapy; SP456, pp. 343-350 (Nov. 1976). SP305-8.  
 TLD; Environmental radiation measurements; Error; Integrating detectors; SP456, pp. 187-198 (Nov. 1976). SP305-8.  
 TLD reliability; TLD systems; Decentralized TLD; Dosimeters; SP456, pp. 181-185 (Nov. 1976). SP305-8.  
 TLD systems; Decentralized TLD; Dosimeters; TLD reliability; SP456, pp. 181-185 (Nov. 1976). SP305-8.  
 TiN<sub>2</sub> structure; Ionic crystal; KN<sub>3</sub> structure; Low temperature study; Monovalent metal azides; NaN<sub>3</sub> structure; Neutron diffraction; RbN<sub>3</sub> structure; Thermal motion; 15973. SP305-8.

- Tl<sub>2</sub>Te; Binary alloys; Bi<sub>2</sub>Te<sub>2</sub>; CdSb; Copper-gold (Cu-Au); Cu<sub>3</sub>Au; CuPt; Cu<sub>3</sub>Pt; Ductility; Electrical resistivity; Hall effect; Magnesium bismide (Mg<sub>3</sub>Bi<sub>2</sub>); SP323, pp. 483-492. SP305-4.
- TmAsO<sub>4</sub>; Cooperative distortion; Jahn-Teller distortion; Magnetically controllable distortion; Rare-earth; 12657. SP305-4.
- TmAsO<sub>4</sub>; Heat capacity; Jahn-Teller effect; Molecular field approximation; Schottky anomaly; Thulium arsenate; 12990. SP305-4.
- t*-matrices; Alloys; Brass; Delta-function potential; Disordered systems; Green's functions; Korrington-Kohn Rostoker (KKR); "muffin-tin" potential; Short-range-order parameters; Spectral density of states; SP323, pp. 509-514. SP305-4.
- t*-matrices; Delta-function potential; Excluded terms; Green's functions; Multiple-scattering series; Rigid-band approximation; Scattering phase-shifts; SP323, pp. 515-518. SP305-4.
- t*-matrix; Antiferromagnetic insulator; First order phase transition; Half-filled narrow energy band; Mott state; Paramagnetic metal; SP323, pp. 527-541. SP305-4.
- T-matrix; APW; Band structure; Density of states; Disordered systems; KKR; Molecular crystals; Pseudopotential; J74A No. 2, 241-252 (1970). SP305-2.
- t*-matrix; Molecular crystals; Pseudopotential; APW; Band structure; Density of states; Disordered systems; KKR; SP323, pp. 1-12. SP305-4.
- TMC; Cooperative transition; Magnetic susceptibility; NMR; 12989. SP305-4.
- t*-minimal graphs; Bipartite graphs; Graph theory; Mathematics; Planar graphs; Thickness of graphs; J72B No. 2, 145-153 (1968). SP305-1.
- Toeplitz matrix; Hankel matrix; J. Res. 80B No. 2, 269-272 (1976). SP305-8.
- T-O-F technique; U-235; Fast neutron fission; Prompt fission neutron spectrum; SP425, pp. 631-634. SP305-7.
- TOF-technique; <sup>235</sup>U; <sup>238</sup>U; <sup>239</sup>Pu; Fast fission neutron spectra; SP425, pp. 572-575. SP305-7.
- Tokamak plasmas; Atomic oscillator strengths; Beam-foil spectroscopy; Fusion plasma research; Plasma radiative losses; Sodium isoelectronic sequence; 16320. SP305-8.
- Tolerance; Caterpillar Tractor Co.; Computer program; Documentation; Engineering drawing; General Motors Corporation; Metric conversion; Rounding; Test problem; TN872. SP305-7.
- Tolerance; Conventions; Dimensional coordination; Industrialized production; Modular coordination; TN710-1. SP305-4.
- Tolerance limits; Noncentral *t*-distribution; Normal distribution; Statistics; J. Res. 80B No. 3, 343-346 (1976). SP305-8.
- Tolerances; Blackboards; Dimensions; Natural markings; Slabs; Slate; Standard sizes; Thickness; P52-66. SP305.
- Tolerances; Commercial weighing and measuring devices; Specifications; Technical requirements; H44. SP305-3.
- Tolerances; Gloss; Optical properties; 15583. SP305-7.
- Tolerances; Weights and measures inspection; Weights used by servicemen; Field standard weights; Specifications; Test weights; H105-1. (Revised 1972). SP305-4.
- Tolerances; Weights and measures inspection; Accurate measurements of volume of liquids; Field standard measuring flasks; Specification; H105-2. SP305-3.
- Tolerances; Weights and measures inspection; Accurate measurements of volumes; Field standard; Metal volumetric field standards; Provers; Specifications; Test measures; H105-3. SP305-3.
- Tolerances; Weights and measures inspection; Cooperation for uniformity of measurements; Field standard weights; Specifications; H105-1. SP305-1.
- Toluene; Carbon disulfide; Carbon tetrachloride; Clausius-Mosotti; Density; Dielectric constant; Dipole moment; Isopentane; Polarizability pressure; Slightly polar liquids; Tait equation; 11066. SP305-2.
- Toluene-3,4-dithiol; Tungsten; Molybdenum; Radioisotope dilution; Substoichiometric water; 14411. SP305-6.
- Tons; Amps; Condenser water; Economy; Energy input; Outside air wet bulb; Power savings; Refrigeration production; 12798. SP305-4.
- Tool, market; Aggregation; market; Market aggregation; NB; GCR-ETIP 73-01. SP305-8.
- Tool steels; Annealing; Case hardening; Chemical composition; Hardening; Heat treatment; Ni-maraging steels; Normalizing; Stainless steels; Structural steels; Surface hardening; Tempering; Mono. 88. SP305.
- Tool steels; Ultrahigh strength; Alloy steels; Ausformed steels; Cold-drawn steels; Dispersion hardened alloys; Fiber and whisker reinforced materials; Maraging steels; Refractory alloys; Stainless steels; Strengthening mechanisms; Superalloys; 12789. SP305-4.
- Tools; Actual system performance; Computer performance evaluation; Performance prediction; Simulation; Software validation; SP406, pp. 79-82. SP305-7.
- Tools, analytical; Analytical tools; Electron paramagnetic resonance; Nuclear magnetic resonance; Paramagnetic resonance; Spectroscopy; 9701. SP305-1.
- Tooth decay; Disaster losses; Energy systems; Flammable fabrics (FFACTS); Metric; Nuclear activation analysis; Roofing systems; TNB 57, No. 5, 101-128 (1973). SP305-5.
- Tooth enamel; Apoptite crystals; Crystals; Enamel; 1046. SP305-1.
- Tooth enamel; Calcium phosphates; Dental caries; Fluorid; Fluorapatite; 13916. SP305-6.
- Tooth enamel; Dental caries; Hydroxyapatite; Ion activity product; Solubility; 15535. SP305-7.
- Tooth enamel; Dicalcium phosphate dihydrate; Fluorapatite; Fluoride; Hydroxyapatite; 14909. SP305-7.
- Tooth enamel; Dicalcium phosphate dihydrate; Fluorapatite; Fluoride; Pit and fissure sealant; 15565. SP305-7.
- Tooth loss; Caries; Dental materials; Plastics; Prevention; Sealants; 13261. SP305-5.
- Tooth surface treatments; Adhesives; Adhesive test methods; Bioadhesives; Dental adhesives; Dental resins; Reactivity of tooth surfaces; 12923. SP305-4.
- Toothpaste, package quantities; Package quantities of toothpaste; P550-71. SP305-3.
- Top-down design; GOTO statements; Hierarchical design; Programming; Structured programming; 14557. SP305-6.
- Top-down programming; Control structures; GOTO-less programming; Program validation; Programming; Proofs of correctness; Referential transparency; Software quality; Structured programming; TN842. SP305-6.
- Topographical model; Wind load; Wind profile; Wind tunnel; Bridge; Gust; Meteorological data; SP444, pp. II-1-II-2 (1976). SP305-8.
- Topography; Anomalous absorption; Contrast; Diffuse scattering; Dynamical diffraction; Extinction; Imperfect crystals; Kinematical diffraction; 11360. SP305-2.
- Topography; Bevel; Interferometer; Jig; Microcontacts; Silicon; Spreading resistance; Steel probe; SP400-10, pp. 99-108. SP305-6.
- Topography; Brittle polymers; Fracture topography; Kinetics; Polymeric solids; Primary fracture front; 9487. SP305.
- Topography; Crystal perfection; Silicon; 11286. SP305-2.
- Topography; Dynamical diffraction; Imperfect crystal; Integrated equation; 14391. SP305-6.
- Topography; Tunneling; Diffraction grating; Field emission; Micrometrology; Profile; Surface; Surface instrumentation; Surface metrology; 12919. SP305-4.
- Topography; X ray; Asymmetric; Diffraction; Intensification; 16356. SP305-8.
- Topography; X ray; Laser rod; Orientation; Ruby; Single crystal; 12066. SP305-3.

ography; X-ray; Camera; Diffraction; Dislocation; 9880. SP305-1.

ology; Validation; Chemical structure diagrams; Computer storage; Display; Geometric; Grammar; Input; Labeled graph; Overlap; 12682. SP305-4.

logical codes; Chemistry; Compounds; Computer; File organization; HAYSTAG; Hayward; Information retrieval; Linear notation; Markush; Mixtures; Reactions; Representations; Screens; Structures; 10363. SP305-1.

logical groups; Inventory theory; 14788. SP305-7.

logical space; Convergence; Filter; Function space; Limit space; Linear topological space; Net; 13762. SP305-5.

logy; Contractions; Control theory; Functional analysis; Group; Stability theory; 174B No. 2, 115-120 (1970). SP305-2.

logy; Contractions; Functional analysis; Metric spaces; 11B2&3-202, 73-76 (1967). SP305.

logy; Contractions; Functional analysis; Metric spaces; 13B No. 4, 301-305 (1969). SP305-1.

logy; 3-manifold; 3-sphere; Free group; Handlebody; Isomorphism; Simply connected; 171B2&3-197, 53-56 (1967). SP305.

ide; Absorption; High latitude; Ionosphere; Ionospheric scattering; Irregularity; Satellite; Scintillation; Spread-F; 541. SP305-8.

ide; Aurora; Electrostatic wave; Ionosphere; Ionospheric scattering; Ionospheric irregularity; Ionospheric scattering; Plasma resonance; Radio sounding; Satellite; 9615. SP305-1.

ado; Wind loads; Building code; Damage classification; Extreme wind; SP444, pp. 1-34-1-39 (Apr. 1976). SP305-8.

adoes; Total cost minimization; Benefit-cost analysis; Disaster mitigation; Earthquakes; Economics; Efficient; Floods; Hurricanes; Natural disasters; Optimal; NBSIR 74-473. SP305-6.

adoes; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; Structural engineering; BS561. SP305-7.

adoes; Wind; Missiles; Nuclear engineering; Structural engineering; NBSIR 76-1050. SP305-8.

adoes; wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; Structural engineering; SP444, pp. V-35-V-49 (Apr. 1976). SP305-8.

ados; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; Structural engineering; NBS-GCR-75-36. SP305-8.

ados; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; Structural engineering; NBS-GCR-75-37. SP305-8.

ados; Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; Structural engineering; NBS-GCR-75-38. SP305-8.

ad; Transformer; Vector potential; Leakage flux; Magnetic field; 12371. SP305-3.

ad; Transformer; Vector potential; Magnetic field; Solenoid; 12372. SP305-3.

adical core; Voltage divider; Voltage ratio; Calibration; Comparator; High permeability core; Inductive voltage divider; Phase angle; R-C network; Shielded transformer; 614. SP305-1.

ue; Magnet; Magnetization; 16546. SP305-8.

logy; Affine connection; Continuum; Defect; Deformation; Dislocation; Nonlinear; Non-Riemannian geometry; 11287. SP305-2.

ion; Aircraft structures; Buckling; Composite materials; Metal reinforcement; Stability; Stacking sequence; Thin shells; NBSIR 74-572. SP305-6.

ion; Aluminum alloy; Bending; Fatigue strength; Microcracks; Shear stress; 10735. SP305-1.

Torsion; Internal rotation; Interstellar molecules; Methanol; Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; J. Phys. Chem. Ref. Data 2, No. 2, 205-214 (1973). SP305-6.

Torsion; Tube; Creep; Primary creep; Shear; Shell; Stress analysis; Thin wall; J71C3-256, 209-225 (1967). SP305.

Torsion balance; Ammeter; Electrodynamic meter; High frequency current; Short-circuited ring; 11308. SP305-2.

Torsion balance; Eötvös balance; Eötvös' law of surface tension; Equivalence of gravitational and inertial mass; Geophysical exploration; Public service; 14638. SP305-6.

Torsion buckling; Aircraft structures; Boron/epoxy; Composite materials; Reinforced aluminum; Stability; Thin shells; TN728. SP305-4.

Torsion pendulum;  $\alpha$ ,  $c$  face of cell; Compliance; Crystallization-oriented; Lamella thickness; Logarithmic-decrement; Modulus; Polyethylene; Relaxations; Shear; Temperature; 9689. SP305-1.

Torsion pendulum; Activation energy; Dental materials; Glass, sodium phosphate; Internal friction; Mechanical properties; Polymers, dental; SP354, pp. 145-160. SP305-4.

Torsion pendulum;  $\alpha$ -modification;  $\beta$ -modification; Isotactic polypropylene; Mechanical relaxation; Oriented lamella; 11278. SP305-2.

Torsion pendulum; Varying crystallinities; Apparatus; Isothermally crystallized sample; Loss compliance; Loss modulus; Mechanical relaxation; Polychlorotrifluoroethylene; Quenched sample; Storage modulus; Tan  $\delta$ ; 9441. SP305.

Torsion pendulum; Viscoelastic methods; Amalgam, dental; Creep; Dental materials; Denture base resins; Indentation test method; Mechanical properties, dental materials; Rocking beam oscillator; Stress relaxation; SP354, pp. 127-144. SP305-4.

Torsional and translational vibrations; Ammonium compounds; Cold neutron scattering; 9961. SP305-1.

Torsional buckling; Composite materials; Elastic buckling; Reinforced aluminum; Stability; Thin shells; 14424. SP305-6.

Torsional crystal; Viscosity; Comparisons; Graph; Methane; Saturated liquid; Table; 14234. SP305-6.

Torsional crystal; Viscosity; Experimental; Fluorine; Gas; Graphs; Liquid; Tables; 14757. SP305-7.

Torsional crystal viscometer; Viscosity; Argon; Compressed gas and liquid; Dilute gas; Saturated liquid; 13842. SP305-6.

Torsional excitation; Damping; Damping coefficients; Shear modulus; Soil; Tests; SP444, pp. III-72-III-83 (Apr. 1976). SP305-8.

Torsional frequencies; Critically evaluated data; Enthalpy; Enthalpy function; Enthalpy of formation; Entropy; Equilibrium constant of formation; Ethane; Gibbs energy function; Gibbs energy of formation; J. Phys. Chem. Ref. Data 2, No. 2, 427-437 (1973). SP305-6.

Torsional frequencies; 2-butanone (methyl ethyl ketone); Enthalpy; Entropy; Equilibrium constant of formation; Gibbs energy of formation; Heat capacity; Ideal gas thermodynamic properties; Internal rotational barrier height; JPCRD 5, No. 2, 319-328 (1976). SP305-8.

Torsional frequency; Critically evaluated data; Enthalpy; Enthalpy function; Enthalpy of formation; Entropy; Equilibrium constant of formation; Ethylene; Gibbs energy function; Gibbs energy of formation; J. Phys. Chem. Ref. Data 4, No. 1, 251-261 (1975). SP305-7.

Torsional frequency; Vibration; Barrier to rotation; Crystal force field; Crystal structure; Lattice modes; Phosphonium halides; Raman spectra; 11441. SP305-2.

Torsional fundamental; Chloroethane with a symmetry top; Ideal gas thermodynamic properties; Internal rotation; Internal rotational barrier heights; J. Phys. Chem. Ref. Data 3, No. 1, 141-162 (1973). SP305-6.

Torsional mechanical resonance frequency; Cylinders; Loop; Suspension; 10905. SP305-2.

- Torsional mode; Barrier to internal rotation in  $\text{CF}_3\text{SiF}_5$ ; Microwave spectrum; 13202. **SP305-5.**
- Torsional mode; Vibrational fundamentals; Barrier height to internal rotation; Fluoroethanes with a symmetric top; Ideal gas thermodynamic functions; Reduced and principal moments of inertia; *J. Phys. Chem. Ref. Data* 4, No. 2, 441-456 (1975). **SP305-7.**
- Torsional modes; Barrier to rotation; Cosine potential; Frequency spectra; Hindered rotation; Internal rotation; Methylbenzenes; Methyl groups; Neutron scattering; 10424. **SP305-1.**
- Torsional oscillation; Barrier to rotation; Conformation; Crystal structure; Durene; Libration; Methylbenzenes, methyl group; Molecular structure; 13222. **SP305-5.**
- Torsional oscillation; Constrained refinement; Hindered rotation; Hydrogen bonds; Hydroxylammonium; Neutron diffraction; Perchlorates; Thermal motion; 14853. **SP305-7.**
- Torsional oscillation;  $\lambda$ -point; Barrier to rotation; Crystal; Crystal structure; Hexamethylbenzene; Hindered rotation; Phase transition; 16137. **SP305-8.**
- Torsional oscillation;  $\lambda$ -point methyl group; Barrier to rotation; Crystal; Crystal structure; Hexamethylbenzene; Hindered rotation; Phase transition; 41743. **SP305-2.**
- Torsional oscillation; Vibration; Crystal structure; Force field; Hindered rotation; Laser; Phosphonium halides; Raman spectra; 11103. **SP305-2.**
- Torsional pendulum; Viscosity; Absolute measurement; Calibration; Standard; *J.75A No. 6*, 541-551 (1971). **SP305-3.**
- Torsional vibration; Barriers to rotation; Large amplitude vibrations; Momentum transfer; Neutron scattering; Optical spectroscopy; 14684. **SP305-6.**
- Torsional vibration; Far infrared; *ortho*-xylene; 14521. **SP305-6.**
- Torsional vibrations; Ammonium ions; Barriers to rotation; Crystal structure; Disorder; Inelastic scattering; Neutron diffraction; Neutron scattering;  $(\text{NH}_4)_2\text{SiF}_6$ ; 10053. **SP305-1.**
- Torsional vibrations; Ammonium salts; Cross section; Crystals; Hindered rotation; Methylbenzenes; Neutron scattering; 12818. **SP305-4.**
- Torsional vibrations; Barrier to rotation; Cosine potential; Globular molecules; Hindered rotation; Methyl group; Molecular reorientation; Neutron scattering; Neutron spectra; Phase transitions; 10039. **SP305-1.**
- Torsional vibrations; Vibration spectra; Ammonium salt; Barrier to rotation; Ferroelectric; Neutron scattering; Phase transition; 10043. **SP305-1.**
- TOT; TRIB; Digital data communication; Digital system performance; Draft standard ANSI X3; RER; 12466. **SP305-4.**
- Total; Ultraviolet cross sections; Aeronomic; Astrophysical; Partial; Photoabsorption cross sections; Photodissociation; Photoexcitation; Photoionization; Photon-scattering; *NSRDS-NBS38*. **SP305-3.**
- Total absorption; Activation; Capture techniques; High resolution methods; Moxon-Rae; Review; *SP425*, pp. 139-148. **SP305-7.**
- Total absorption cross sections; Absorption and ionization coefficients; Cross section data; Detachment; Dissociation; Ionization; Photoabsorption; Photoabsorption theory; *NBS-OSRDB-70-4 (COM-71-00025)*. **SP305-3.**
- Total angular momentum; Commutation relations; Eulerian angles; Ladder operators; Linear molecules; Molecule-fixed components; 13878. **SP305-6.**
- Total computing capacity; User satisfaction measurement; Reduction of measurement data; Software measurement tools; *SP406*, pp. 27-31. **SP305-7.**
- Total cost minimization; Benefit-cost analysis; Disaster mitigation; Earthquakes; Economics; Efficient; Floods; Hurricanes; Natural disasters; Optimal; Tornadoes; *NBSIR 74-473*. **SP305-6.**
- Total cost recovery; User charges; Automated information retrieval; Cost benefit; Public good; Scientific and technical information; Semi-public good; Subsidization; *TN864*. **SP305-7.**
- Total cross section; Capture cross section; Elastic and inelastic scattering cross sections; Evaluation; Fission product; Optimal model; Resonance cross section; Statistical model; *SP425*, 320-323. **SP305-7.**
- Total cross section;  $^{241}\text{Am}$ ; Neutron; Resonance parameter; *SP425*, pp. 637-641. **SP305-7.**
- Total cross section data; Critical review; Cross section measurement; Electron-atom collisions; 12433. **SP305-4.**
- Total cross sections; Barger-Rubin; Johnson-Treiman; SU(6); Symmetry; 12951. **SP305-4.**
- Total electronic energy distribution; Adsorbate density states; Adsorbate energy level; Chemisorb; Field emission; Surface; 14072. **SP305-6.**
- Total emissivity; Niobium; Superconductors; Thermal radiation shields; 13371. **SP305-5.**
- Total emittance; Emissivity; Emittance; High temperature; Infrared reflectance; Radiation properties; Reflectance; Spectral emittance; Spectral reflectance; Thermal radiation; *TN292*. **SP305-3.**
- Total emittance; Emissivity; Emittance; High temperature; Infrared reflectance; Radiation properties; Reflectance; Spectral emittance; Spectral reflectance; Thermal radiation; 10017. **SP305-1.**
- Total emittance; Vanadium; Zirconium; Bibliography on spectroscopy of fluorides and oxides of the lanthanide series; Calculation of dissociation energies; Electrical resistivity; End of transition; Graphite; Infrared matrix isolation spectroscopy; Melting point; *NBSIR 74-600*. **SP305-7.**
- Total energy; Building research; Industrial building; Performance criteria; 14643. **SP305-6.**
- Total energy; Bulk viscosity; Macroscopic equations of motion; Macroscopic variable; Non-equilibrium kinetic energy; Temperature; 9313. **SP305-3.**
- Total energy distribution; Field emission; Metal surface; Photoemission; Surface density of states; 14152. **SP305-6.**
- Total energy system; Utility system performance; Waste heat recovery; Data acquisition system; Electrical power system; Energy conservation; Fuel utilization; Thermal efficiency; Thermal energy system; 14216. **SP305-6.**
- Total energy systems; Utilities for housing; Air conditioning; Air pollution; Central utility systems; Electric power generation; Energy conservation; Energy costs; Heat recovery power systems; 14221. **SP305-6.**
- Total energy systems; Utilities for housing; Utility system performance; Air conditioning; Air pollution; Central utility systems; Data acquisition system; Efficiencies; Electric power; Energy conservation; Energy costs; Fuel utilization; Heat recovery; *NBSIR 75-711*. **SP305-7.**
- Total energy systems; Utility system performance; Energy conservation in housing; Energy systems for housing; Environmental quality in housing; Field study of energy system; *SP361*, Vol. 1, pp. 419-430. **SP305-4.**
- Total energy systems, waste disposal; Central utility system; Electrical power generation; Energy conservation; Energy costs; Integrated utility systems; 14651. **SP305-6.**
- Total energy weighting technique;  $4\pi\text{Bq}$  detector; Absolute values; Fluctuations; Monte Carlo calculations for corrections; *SP425*, pp. 957-960. **SP305-7.**
- Total hip replacement; cement; Acrylic resin; Cement; Medical materials; Orthopedic materials; Polymethylmethacrylate; self-curing; Surgical bone cement; 15164. **SP305-7.**
- Total internal reflection; Emission anisotropy; Fluorescent photodetectors; Polarization; Quantum counters; Rhodamine B chloride; Spectrofluorimetry; 16430. **SP305-8.**
- Total irradiance; Blackbody; Lamp standard; 9406. **SP305-5.**



irradiance; Calibration techniques; Radiometric standards; Solar constant; Spectral irradiance; 11775. SP305-2.

Irradiance; Electrically calibrated detectors; Irradiance; 47. SP305-5.

Irradiance standards; Color temperature standards; Photometric response evaluation; 10560. SP305-1.

Luminous flux; Illuminance distribution; Integrating sphere; Lamp comparisons; Photometric accuracy; Radiometry; *TN594-7*. SP305-6.

Mass; Gauging; Hydrogen; Nitrogen; Radio frequency; 64. SP305-5.

Mass gauging; LOX storage container; Radio frequency; *NBSIR 73-346*. SP305-6.

Mercury; Water; Chesapeake Bay; Elemental sulfur; Featureless atomic absorption; Petroleum; Plankton; Sediments; 15874. SP305-8.

Neutron cross section; Barrier to rotation; Cross-section data; Free rotation; Methyl group; Neutron wavelength; 141. SP305-1.

Neutron cross section; Black nucleus; Coupled-channel calculations; Nuclear deformation effect; Nuclear orientation; Nuclear Ramsauer effect;  $^{165}\text{Ho}$  nucleus; Optical model; 198. SP305-1.

Neutron cross section; Coupled channel calculations; Holmium; Nuclear collectivity; Nuclear Ramsauer effect; Optical model; 13424. SP305-5.

Neutron cross section;  $^{165}\text{Ho}$ ; Black-nucleus model; Coupled channel calculation; Nuclear orientation; Nuclear Ramsauer effect; Nuclear shape; Optical model; 12007. SP305-3.

Neutron cross section;  $^{54}\text{Fe}$ ;  $^{56}\text{Fe}$ ; High resolution; *SP425*, 748-753. SP305-7.

Neutron cross sections;  $^{239}\text{Pu}$ ;  $^{235}\text{U}$ ;  $^{238}\text{U}$ ; MeV neutrons; Neutron-of-flight; 14435. SP305-6.

Photon cross section; Born approximation; Coulomb field; Derivative energy cross section; Pair production; Racah cross section; *J72B No. 1*, 79-88 (1968). SP305-1.

Reflection; Ultraviolet spectrophotometry; Adsorption of polymers; Attenuated total reflection; Conformation of adsorbed polymer molecules; Frustrated total reflection; Index of refraction in ultraviolet region; Polymer adsorption; 9988. SP305-1.

Reflection; Turnstile junction; Millimeter waves; Polarizers; Laser-optics; 11744. SP305-2.

Scattering cross section; Electron impact; Electron scattering resonances; Exponential attenuation; Low energy; Negative ions; Nitric oxide; Nitrous oxide; 14983. SP305-7.

Elements; Weighing designs; Calibration; Calibration designs; Combinatorial analysis; Difference sets; Incomplete block designs; Statistical experiment designs; *J71B4-237*, 1-160 (1967). SP305.

Interference; Transducers; Wind vanes; Wind loads; Anemometers; Instrumentation; *BSS30*, p. 21. SP305-3.

Winds; Vortex shedding; Wind loads; Aeroelasticity; Buildings; Circular cylinders; Gust factors; Masts; Structural engineering; *BSS30*, pp. 115-128. SP305-3.

Combustion products; Toxicity; Washability; Water vapor permeance; Abrasion; Adhesion; Colorfastness; Covering; Materials; Flash point; Flame spread; Impact resistance; Lead paint poisoning; Materials; Performance; Properties; *TN808*. SP305-5.

Elements in paints; Analytical methods; Antimony; Arsenic; Cadmium; Lead; Mercury; Review; Selenium; 13768. SP305-5.

Gases; Aircraft materials; Combustion products; Fire tests; Interior finish; Smoke; Thermal degradation; 10750. SP305-1.

Gases; Aircraft materials; Combustion products; Fire tests; Interior finish; Smoke; *BSS18*. SP305-1.

Toxic gases; Fire endurance; Fire test; Housing systems; Interlocking wall; Load failure; Modular construction; Operation BREAKTHROUGH; Polyurethane foam; 13411. SP305-5.

Toxic gases; Fire retardant; Fire test; Heat release ignition; Mattress; Smoke; *NBSIR 73-177*. SP305-7.

Toxic gases; Toxicity; Combustion; Polymer; Pyrolysis; Smoke; Specific optical density; *SP411*, pp. 105-124. SP305-6.

Toxic gases; Vent; Waste; ABS; Cast iron; Copper; Drain; Fire endurance; Fire spread; Fire test; Operation BREAKTHROUGH; Plastic pipe; PVC; Smoke; *NBSIR 74-449*. SP305-7.

Toxic metals; Trace determination; Aquatic insects; Atomic absorption; Clean room; Fish; Mini-computer; Sample preparation; *SP422*, pp. 627-632 (Aug. 1976). SP305-8.

Toxicity; Accelerators; Amines; Color-stable composites; Crystalline amine polymerization accelerators; Synthesis; 12922. SP305-4.

Toxicity; Antioxidants; Biomaterials; Comonomers; Inhibitors; Polymerization; Stabilizers; 13303. SP305-5.

Toxicity; Antioxidants; Biomaterials; Comonomers; Inhibitors; Polymerization; Stabilizers; 12915. SP305-4.

Toxicity; Bibliographies; Building fires; Construction materials; Fire departments; Fire detection system; Fire tests; Flame detectors; Flammability tests; Hazard analysis; Interior furnishings; *NBSIR 76-1120*. SP305-8.

Toxicity; Bioassay; Combustion products; Fire; Hazard assessment; 15628. SP305-7.

Toxicity; Bioassay; Combustion products; Fire; Hazard assessment; 16204. SP305-8.

Toxicity; Combustion; Polymer; Pyrolysis; Smoke; Specific optical density; Toxic gases; *SP411*, pp. 105-124. SP305-6.

Toxicity; Upholstery; Bedding; Beds; Carbon dioxide; Carbon monoxide; Combustion products; Fire gases; Fire hazards; Furniture; Life hazard; Oxygen; Smoke; Temperature; *NBS-GCR-73-1*. SP305-8.

Toxicity; Washability; Water vapor permeance; Abrasion; Adhesion; Colorfastness; Covering; Materials; Flash point; Flame spread; Impact resistance; Lead paint poisoning; Materials; Performance; Properties; Scratch resistance; Smoke generation; *TN808*. SP305-5.

Toxicity; Whiting; Calcium carbonate; Calcium sulfate; Chalk; Chroma; *PS30-70*. SP305-3.

Toxicity tests; Biological evaluation of dental materials; Clinical evaluation of dental materials; Correlation of laboratory and clinical performance; Dental materials; Restorative materials; *SP354*, pp. 191-200. SP305-4.

Toy safety; Children; Children's strength; Pull-apart; Safety; Strength; Test methods; Toys; *NBSIR 73-424*. SP305-6.

Toy safety; Computer security; Energy efficiency; Electrocatalysis; Fluorides; Heart; Heat pump; Laser; Ozone; Radiometer; Stabilizer; *DIM/NBS 59*, No. 11, 241-264 (1975). SP305-7.

Toy safety; Twist; Children; Children's strength; Pull; Push; Safety; Strength; Squeeze; Test methods; Toys; 13595. SP305-5.

Toy safety; X-ray units; Computer power; Computer standard; Corrosion; Environment; Health care; Housing production; I-R 100 awards; NIKE missile; Papers available; Stereology; *DIM/NBS 60*, No. 11, 1-24 (1976). SP305-8.

Toy testing; Abuse testing; Dynamic stability; Hazards; Obstruction; Riding toys; Stairway; Static stability; Test weight; Tilt angle; *NBSIR 74-623*. SP305-7.

Toys; Acoustics; Cap guns; Children; Consumer safety; Hearing damage; Noise; Paper caps; Standard apparatus; *TN793*. SP305-5.

Toys; Bicycle attachments; Children; Consumer safety; Model airplanes; Noise; *NBSIR 75-693*. SP305-7.

Toys; Children; Consumer safety; Guns; Hearing damage; Noise; Standard apparatus; *NBSIR 74-619*. SP305-7.

- Toys; Cut; Edges, hazardous; Experimental studies; Human tolerances; Injury; Injury thresholds; Inspection of edges; Laceration; Safety; Simulation; Skin; Skin, cutting; Synthetic materials, cutting; *NBSIR 73-262. SP305-7.*
- Toys; Toy safety; Children; Children's strength; Pull-apart; Safety; Strength; Test methods; *NBSIR 73-424. SP305-6.*
- Toys; Toy safety; Twist; Children; Children's strength; Pull; Push; Safety; Strength; Squeeze; Test methods; *13595. SP305-5.*
- T(p,n) neutrons;  $^{10}\text{B}(n,\alpha)^7\text{Li}$  reaction; Branching ratio; Gas proportional counter; Neutrons; Nuclear physics; *14813. SP305-7.*
- T(p,n) $^3\text{He}$  reaction; Associated particle technique; Neutron detector; Neutron flux monitor; Neutrons; Neutron standards; *SP425, pp. 75-77. SP305-7.*
- T(p,n) $^3\text{He}$  reaction; Associated particle technique; Neutron detector; Neutron flux monitor; Neutron standards; Neutrons; *16159. SP305-8.*
- Trace; Accuracy; Activation; Analysis; Decay curve resolution; Gamma-ray attenuation; Geometrical location; Neutron; Neutron self-shielding; Precision; Similar gamma-ray energy; Standard Reference Materials; *10078. SP305-1.*
- Trace; Chain rule; Continuum mechanics; Gradient; Matrices; Matrix calculus; Partial differentiation; Product rule; Tensor function; *J75B, Nos. 3 and 4, 97-107 (1971). SP305-3.*
- Trace; Character; Group; Positive semidefinite hermitian matrix; *12612. SP305-4.*
- Trace; Commutator; Eigenvalues; Positive definite; *14033. SP305-6.*
- Trace; Directly in organic phase; Exchange reactions; Spectrofluorometric; Spectrophotometric; Ternary ion association complexes; *11681. SP305-2.*
- Trace; Variance; Activation; Analysis; Biological; Blood; Bone; Botanical; Destructive; Homogeneity; Leaves; Liver; Neutron; Non-destructive; Reference; Tissue; *10790. SP305-1.*
- Trace; Zinc; Cadmium; Coulometry; Extraction; Microanalysis; Solvent; Substoichiometric radioisotope dilution; *10664. SP305-1.*
- Trace absorption detection; Visible molecular absorption; Dye laser; Intra-cavity absorption; Iodine detection; Laser quenching; *13861. SP305-6.*
- Trace amounts; Cadmium; Dithizone; Silver; Sub-stoichiometric radioisotopic dilution analysis; *9168. SP305.*
- Trace analysis; Air pollution; Chemical analysis; Industrial hygiene; Mercury; Piezoelectric detector; *15331. SP305-7.*
- Trace analysis; Air pollution; Chemical analysis; Dosimeter; Industrial hygiene analysis; Mercury; Personnel monitor; Piezoelectric sensor; *15581. SP305-7.*
- Trace analysis; Analytical chemistry; Electronic materials; Materials characterization; Solid state research; Stoichiometry; *SP351, pp. 19-77. SP305-4.*
- Trace analysis; Biological standards; Blood standard; Botanical standards; Environmental samples; Standard Reference Material; Tissue standard; *12132. SP305-3.*
- Trace analysis; Chromium; Coulometry; *11872. SP305-3.*
- Trace analysis; Emission spectrometry; Excitation sources; Review; Spectrochemical analysis; *11695. SP305-2.*
- Trace analysis; Glasses; Neutron activation analysis; Radiochemical separations; Spontaneous deposition; *12931. SP305-4.*
- Trace analysis; Isotope dilution; Mass spectrometry; Rubidium; Standards; Strontium; *13862. SP305-6.*
- Trace analysis; Trace characterization; Activation analysis; Neutron activation; *12766. SP305-4.*
- Trace analysis; Uranium; Biological materials; Neutron activation analysis; Rapid radiochemical separation; Solvent extraction; *12817. SP305-4.*
- Trace analysis; Water analysis; Polarographic analysis; *10490. SP305-1.*
- Trace analysis; Water analysis; Water pollution; Water pollution control; Aquatic environment; Environmental analysis; *SP351, pp. 297-430. SP305-4.*
- Trace analysis; X-ray absorptiometry; X-ray fluorescence analysis; X-ray scans; Analytical curve functions; Color comparison; Computer programs; Electron probe; Gold analysis; Isotope dilution method; Laser probe; Metal foil analysis; Microanalysis; *TN502. SP305-2.*
- Trace analysis; X-ray fluorescence; X-ray spectroscopy; Background; Mercury in coal; *NBSIR 75-675. SP305-7.*
- Trace analysis; Zinc spelter; Cadmium; Coulometry; Electrosynthesis; Radioactive tracers; Radioisotope dilution; stoichiometry; *10412. SP305-1.*
- Trace analysis techniques; Accuracy error limits; Activation analysis; Atomic absorption; Instrument biases; Isotope dilution; Method biases; Nuclear track technique; Practical aspects; Radiochemistry; *13763. SP305-5.*
- Trace characterization; Activation analysis; Neutron activation analysis; *12766. SP305-4.*
- Trace characterization; X-ray spectroscopy; Electrochemical methods; Electron and optical microscopy; Nuclear method; Optical spectroscopy; Symposium on trace characterization; *Mono. 100. SP305.*
- Trace determination; Aquatic insects; Atomic absorption; Croom; Fish; Mini-computer; Sample preparation; T metals; *SP422, pp. 627-632 (Aug. 1976). SP305-8.*
- Trace analyses; Cadmium; Environmental Standard Reference Materials; Isotope dilution; Lead; Molybdenum; Rubidium; Strontium; *16221. SP305-8.*
- Trace analysis; Accuracy; Activation analysis; Analytical chemistry; Charged particle activation analysis; Cross sections; Excitation functions; Fast neutron activation analysis; Fast particle activation analysis; Interferences; *SP422, 1189-1214 (Aug. 1976). SP305-8.*
- Trace analysis; Accuracy; Analysis; Analytical chemistry; Sample handling; Sampling; *SP422. Volume I and II. SP305-8.*
- Trace analysis; Analytical error; Geochemical variance; Particle size distribution; Particle size errors; Sampling errors; *SP422, pp. 421-427 (Aug. 1976). SP305-8.*
- Trace analysis; Background correction; Differential polarography; Dropping mercury electrode; Electroanalytical pulse polarography; *SP422, pp. 871-879 (Aug. 1976). SP305-8.*
- Trace analysis; Baseline studies; Gas chromatography; chromatography-mass spectrometry; Hydrocarbons; Liquid chromatography; Petroleum analysis; *TN889. SP305-8.*
- Trace analysis; Carcinogens; Food; Nitrosamines; *SP422, 727-736 (Aug. 1976). SP305-8.*
- Trace analysis; Trace metals; Atomic absorption spectroscopy; Fish analysis; Sample size variations; *SP422, pp. 163-171 (Aug. 1976). SP305-8.*
- Trace analysis; Triclosan; 2-hydroxy-2',4',4'-trichlorodiphenyl ether; Bacteriostats; Blood analysis; Gas chromatography; *SP422, pp. 851-859 (Aug. 1976). SP305-8.*
- Trace analysis; Water sampling; Contamination; Geological sample; Rocks and minerals; Sample preparation; Sampling; *SP422, pp. 285-297 (Aug. 1976). SP305-8.*
- Trace analysis; X-ray fluorescence; Mineral analysis; *SP422, 1109-1118 (Aug. 1976). SP305-8.*
- Trace analysis of lead; Waters, lead in; Accuracy of atomic absorption analytical techniques; Accuracy of isotope dilution analytical techniques; Errors in lead analyses; Lead; Lead contamination evaluation and control; *SP422, pp. 321-331 (Aug. 1976). SP305-8.*
- Trace detection; Tunable lasers; Discharge; Discharge tube; Hollow cathode; Spectroscopy; *16604. SP305-8.*
- Trace determinations; Cation-exchange; Electrodeposition; High-purity metal analysis; Multi-element; Spark source mass spectrometry; Stable isotope dilution; *11242. SP305-2.*

- element; Ingot iron; Isotope dilution; NBS standard reference material; Preconcentration; Spark source mass spectrometry; *11704. SP305-2.*
- element; Water standard; Mercury; Stabilization; Standard reference material; *15458. SP305-7.*
- element analysis; Accuracy limits; Activation analysis; Emission spectrometry; Analytical chemistry; Measurement units; Ppb; Ppm; Real samples; Standard Reference Material; *14425. SP305-6.*
- element analysis; Biological samples; Biological standards; Chemical separations; Environmental samples; Neutron activation analysis (NAA); Nondestructive; Reagent blanks; *13687. SP305-5.*
- element analysis; X-ray fluorescence; Accuracy; Activation analysis; Airborne particulates; Air filter analysis; Atomic absorption; Emission spectroscopy; Environmental pollutants; Intercomparisons; Multi-element analysis; *SP422, pp. 173-188 (Aug. 1976). SP305-8.*
- element analyses; Accuracy; Blood lead analyses; Clinical chemistry; Industrial lead hygiene; Interlaboratory correlations; Lead hygiene control; Occupational exposure standard series; Occupational health control; Precision; *SP422, pp. 282 (Aug. 1976). SP305-8.*
- element analyses; Atomic absorption spectrometry; Food analyses; Contaminations; Flameless methods; Lead; Blood analyses; Methodology; *SP422, pp. 715-719 (Aug. 1976). SP305-8.*
- element analysis; Accuracy; Activation analysis; Air filter analysis; Analytical quality control; Atomic absorption spectrometry; Environmental analysis; Fresh water analysis; Intercomparisons; Precision; Round-robin experiments; *SP422, pp. 197 (Aug. 1976). SP305-8.*
- element analysis; Accuracy and precision; Comparison of analytical methods; Contamination; Rocks and ores; Sample preparation; *SP422, pp. 773-790 (Aug. 1976). SP305-8.*
- element analysis; Errors of analysis; Homogenization; Neutron activation analysis; Sample preparation; Standard materials; *SP422, pp. 1293-1304 (Aug. 1976). SP305-8.*
- element analysis; Water pollution; Atomic absorption; Cadmium; Fish; Heavy metal; Tissue; *SP422, pp. 103-1072 (Aug. 1976). SP305-8.*
- element analysis; Wet ashing; Ashing techniques; Disintegration; Dry ashing; Organic materials analysis; *SP422, pp. 507 (Aug. 1976). SP305-8.*
- element concentrations; Neutron activation analysis; Particulates; Sampling; Species; *15783. SP305-8.*
- element content in liver biopsies; Trace element content in tumor bearing animals; Wilson's disease; Atomic absorption spectroscopy (AAS); Comparison between NAA and S. Neutron activation analysis (NAA); *SP422, pp. 231-238 (Aug. 1976). SP305-8.*
- element content in tumor bearing animals; Wilson's disease; Atomic absorption spectroscopy (AAS); Comparison between NAA and AAS; Neutron activation analysis (NAA); Use of analysis in NAA and AAS; *SP422, pp. 231-238 (Aug. 1976). SP305-8.*
- element glasses; Uranium; Alpha particles; Boron; Fission; Fragments; Recoiling fission fragments; *12844. SP305-8.*
- element models; Volcanic rocks; Analytical techniques; Fractional crystallization; Geochemistry; Isotope dilution; Partial melting; Rare earth elements; *SP422, pp. 937-949 (Aug. 1976). SP305-8.*
- element water analysis; Water filtration; Water sampling apparatus; Anodic stripping voltammetry; Flameless atomic absorption; Interstitial water; Lake Superior chemical analysis; *SP422, pp. 1073-1088 (Aug. 1976). SP305-8.*
- Trace elements; Accelerated curing of cements; Autoclave curing of portland cement mortars; Chemical composition; Compressive strength of portland cement; Compressive strength of steam-cured cements; Mortars; Steam curing of portland cement mortars; *BSS8, Sec. 8. SP305-1.*
- Trace elements; Accuracy; Atomic Absorption Spectrometry; Caribbean; Precision; Puerto Rico; Replicates; Sediments; Standard; *SP422, pp. 1089-1102 (Aug. 1976). SP305-8.*
- Trace elements; Accuracy; Biological materials; Data interpretation; Standard materials; *SP422, pp. 65-77 (Aug. 1976). SP305-8.*
- Trace elements; Accuracy and precision; Clinical chemistry; Quality control; Surrogate specimens; *SP422, pp. 35-40 (Aug. 1976). SP305-8.*
- Trace elements; Activation analysis;  $Al_2O_3$ ; Interfering reactions; Laser; Nondestructive analysis; Ruby; *J75A No. 5, 429-433 (1971). SP305-3.*
- Trace elements; Activation analysis; Glass; Hydrated antimony pentoxide (HAP); Radiochemical separations; Sodium; *12000. SP305-3.*
- Trace elements; Activation analysis; Adsorption isotherm; Environmental samples; Mercury; Preconcentration; *SP422, pp. 669-699 (Aug. 1976). SP305-8.*
- Trace elements; Air particulates; Blood; Chemistry; Computer graphics; Geochemistry; Medicine; Pattern recognition; *SP422, pp. 151-162 (Aug. 1976). SP305-8.*
- Trace elements; Air sampling; Atomic absorption spectrophotometry; High temperature ashing; *SP422, pp. 1053-1061 (Aug. 1976). SP305-8.*
- Trace elements; Alkalies; Concrete; Durability; Heat of hydration; Portland cements; Shrinkage; Statistical evaluation; Strength; Sulfate expansion; *11863. SP305-3.*
- Trace elements; Alloys; Analyses; Cast irons; Differential cathode ray polarography; High-purity materials; Metals; Steels; *13284. SP305-5.*
- Trace elements; Alloys; Analyses; Cast irons; Differential cathode ray polarography; High purity materials; Metals; Steels; *13490. SP305-5.*
- Trace elements; Analytical methods; Coal; Environmental samples; Environmental standards; Fly ash; Instrumental neutron activation analysis (INAA); Instrumental photon activation analysis (IPAA); Natural radioactivity; *SP422, pp. 211-223 (Aug. 1976). SP305-8.*
- Trace elements; Biological; Bovine liver; Orchard leaves; Standard reference materials; *14715. SP305-6.*
- Trace elements; Biological material; Biological standards; Data evaluation; Distillation; Food composition; Gamma spectrometry; Inorganic separators; Isotopic exchange; Multielement determination; Neutron activation; Radiochemical separation; *SP422, pp. 1173-1180 (Aug. 1976). SP305-8.*
- Trace elements; Body fluids; Fluorine; Lead; Mercury; Reference samples; *15408. SP305-7.*
- Trace elements; Cement composition; Expansion-shrinkage ratios; Portland cement concrete; Shrinkage of concrete; *BSS15, Sec. 10. SP305-1.*
- Trace elements; Chemical analysis; Environmental samples; Long-term storage; Microbiologicals; Organics; Pesticides; Radionuclides; Sample handling; Sampling; *TN929. SP305-8.*
- Trace elements; Chemical composition; Fineness; Heat of hydration; Strength gain of portland cements; *BSS8, Sec. 8. SP305-1.*
- Trace elements; Chemical composition of portland cements; Cracking of portland cements; Cracking resistance of cements; Portland cement; Shrinkage of portland cements; *BSS15, Sec. 10. SP305-1.*
- Trace elements; Distillation; Isotope dilution; Pure reagents; Spark source mass spectrometry; Sub-boiling; *13088. SP305-5.*

- Trace elements; Fluctuations; Homogeneity; Ion sensitive emulsion; Mass spectrometry; Precision; Quantitative analysis; Solids; Spark source; *J2127. SP305-3.*
- Trace elements; High-temperature alloys; Intergranular segregation; Macro-segregation; Sampling problems; *SP422*, pp. 1017-1022 (Aug. 1976). **SP305-8.**
- Trace elements; Isotope dilution; NBS Standard Reference Material; Preconcentration; Spark source mass spectrometry; Steel; *15889. SP305-8.*
- Trace elements; Trace elements in water; Water; Filtering water; River water; Sampling water for trace elements; Suspended particulates in water; Teflon water sampler; *SP422*, pp. 439-455 (Aug. 1976). **SP305-8.**
- Trace elements; Tracers; Water; Freeze drying; Instrumental neutron activation analysis; Lyophilization; Neutron activation analysis; Preconcentration; Radioactive tracers; River water; *15376. SP305-7.*
- Trace elements; Urine; Arsenic; Biological fluids; Chromium; Copper; Fluorine; Lead; Nickel; Reference materials; Selenium; *NBSIR 73-406. SP305-6.*
- Trace elements; Viscosity; Calibration standards; Concentration validity; Flash point; Lubricating oil; Pour point; Spectrometric analysis; Stability; *TN751. SP305-5.*
- Trace elements; Water; Wet chemical analysis; Atomic absorption analysis; Californium-252; Mahoning River; Neutron activation analysis; Pollution; Sediment; *SP422*, pp. 225-230 (Aug. 1976). **SP305-8.**
- Trace elements; Water pollution; X-ray fluorescence; Air pollution; Atomic absorption; Electron microprobe; Emission spectroscopy; Environmental analysis; Industrial effluents; Ion-selective electrodes; Nuclear activation analysis; Particulate analysis; *13783. SP305-5.*
- Trace elements; Zinc; Atomic absorption spectrophotometry; Calcium; Container effects; Copper; Magnesium; Potassium; Serum minerals; Serum storage effects; Sodium; Temperature effects; *SP422*, pp. 575-591 (Aug. 1976). **SP305-8.**
- Trace elements; Zinc; Electrodeposition; Isotope dilution; Preconcentration; Spark source mass spectrometry; *11514. SP305-2.*
- Trace elements in polyethylene powder; Gamma counting efficiency; Germanium detectors; Instrumental neutron activation analysis; Particulate sample geometry; *SP422*, pp. 1275-1281 (Aug. 1976). **SP305-8.**
- Trace elements in water; Water; Filtering water; River water; Sampling water for trace elements; Suspended particulates in water; Teflon water sampler; Trace elements; *SP422*, pp. 439-455 (Aug. 1976). **SP305-8.**
- Trace elements-glass standards; Bilirubin solvent extraction with  $\beta$ -isopropyltropolone; Clinical; Filter; Fluorimetric standards; Inert gas fusion; Lead-base alloys; Multi-element flame spectrometer; Spectrophotometric standards; Steels and metallo-organics; Thermal analysis DTA standards; *TN544. SP305-2.*
- Trace equation; Trace formula; Closed form of rotation matrix; Orthogonal transformation; Rotation; Rotation matrix; Secular equation; *J.73B No. 3, 215-223 (1969). SP305-1.*
- Trace formula; Closed form of rotation matrix; Orthogonal transformation; Rotation; Rotation matrix; Secular equation; Trace equation; *J.73B No. 3, 215-223 (1969). SP305-1.*
- Trace gas analysis; Trace oxygen determination; Galvanic cells; Gas analysis; Gas analysis using electrochemical methods; Oxygen determination; *11001. SP305-2.*
- Trace mercury; Agriculture; Environment; Isotope dilution; Mass spectroscopy; NBS Standard Reference Material; Orchard leaves; *14789. SP305-7.*
- Trace metal; Analysis; Ashing; Blood lead; Contamination; Dairy products; Digestion; Interferences; Losses; Mercury; *SP422*, pp. 661-668 (Aug. 1976). **SP305-8.**
- Trace metal analysis; Accuracy; Flameless atomic absorption; Freshwater; Interlaboratory comparison; Method evaluation; *SP422*, pp. 247-265 (Aug. 1976). **SP305-8.**
- Trace metals; Analyses; Cathode ray polarography; Elemental analyses; Standard reference materials; *12796. SP305-4.*
- Trace metals; Atomic absorption spectroscopy; Fish; Sample size variations; Trace analysis; *SP422*, pp. 10 (Aug. 1976). **SP305-8.**
- Trace organic analysis; Water pollution; Baseline studies; water sampling; Sampling device; Sea water sampling; *15376. SP305-7.*
- Trace oxygen; Activation analysis; Nuclear interference; *11914. SP305-3.*
- Trace oxygen; 14-MeV neutron activation analysis; Cockcroft-Walton neutron generator; "flow through" tainer; Gamma-attenuation; Geometrical correction; Neutron attenuation; Systematic error analysis; *11409. SP305-2.*
- Trace oxygen determination; Galvanic cells; Gas analysis; analysis using electrochemical methods; Oxygen determination; Trace gas analysis; *11001. SP305-2.*
- Trace silver determination; Electrometric study of silver sorption; Silver adsorption; Silver ion-selective electrode; *12353. SP305-3.*
- Traceability; Assurance; Measurement; Radiopharmaceutical; Standards; *SP456*, pp. 71-76 (1976). **SP305-8.**
- Traceability; Calibration; Measurement; Nondestructive Nuclear; Safeguards; *16414.. SP305-8.*
- Traceability; Calibration; Temperature; *13813. SP305-6.*
- Traceability; Calibration records; Calibration system specification; Intervals; Procedures; Recall; Reliability; *SP335, p. 50. SP305-3.*
- Traceability; Diagnosis; Measurement accuracy; Medical ties; Regulatory; Therapy; *SP456*, pp. 139-146 (Nov. 1976). **SP305-8.**
- Traceability; Intercomparisons; Radioactivity; Standards; *14303. SP305-6.*
- Traceability; Uncertainty; Measurement; *15975. SP305-8.*
- Traceability; United States measurement system; Acceptance; Calibrations; Conferences, 1966 Standards Laboratory; Foreign standards laboratories; Laboratory management; Measurements and standards; Measurement system; *15376. SP305-5.*
- Traceability of electrical standards; Basic electronic standards; Classification of electronic standards; DC standards; frequency standards; Standards (coaxial connectors); Standards (waveguide or coaxial line); *13104. SP305-5.*
- Tracer diffusion; Calculations; Correlation factors; Diffusion and impurity-vacancy pairs; Random walk; *9789. SP305-1.*
- Tracer diffusion; Chemical interdiffusion; Grain-boundary diffusion; Intrinsic diffusion; Lattice diffusion; Self-diffusion; *J.72A No. 2, 157-173 (1968). SP305-1.*
- Tracer diffusion; Chemical interdiffusion; Grain-boundary diffusion; Intrinsic diffusion; Lattice diffusion; Self-diffusion; *13978. SP305-6.*
- Tracer diffusion; Chemical interdiffusion; Grain-boundary diffusion; Intrinsic diffusion; Lattice diffusion; Self-diffusion; *13979. SP305-6.*
- Tracers; Water; Freeze drying; Instrumental neutron activation analysis; Lyophilization; Neutron activation analysis; Preconcentration; Radioactive tracers; River water; Trace elements; *15376. SP305-7.*
- Track etch method; Uranium; Boron; Glasses; Image analysis; Liver; Microscopy; Neutron activation at Nitrogen; Nuclear track technique; Orchard leaves; *12688. SP305-4.*
- Track excess; Fast flux; Fission track technique; Thorium fission; Th/U ratio; *13899. SP305-6.*



k recorders; Coincidence counting; Decay constant; Plu-  
 mium-238; Safeguards data; Spontaneous fission; *SP425*, pp.  
 17-590. **SP305-7.**  
 k structure; Delta-ray; Electron; Energy deposition; Event-  
 vance spectra; Microdosimetric; Stopping power; *12631*.  
**SP305-4.**  
 k-etch; Films; Images; Neutron radiography; Nondestructive  
 testing; Real-time imaging; Thermoluminescence; *15796*.  
**SP305-8.**  
 k-etch detector;  $^{235}\text{U}$ ;  $^{24}\text{Na}$ ;  $^9\text{Be}(\gamma, n)$ ; Fission cross section;  
 angene bath; NBS-II; *SP425*, pp. 635-636. **SP305-7.**  
 king; Atmospheric; Distance measurements; Earth-to-space  
 crowwave transmissions; Microwave transmissions; Phase;  
*7339*. **SP305-5.**  
 king; Clocks; Propagation delay; Satellites; Synchroniza-  
 tion; Time dissemination; *12647*. **SP305-4.**  
 king; Measurements; Electrical testing; Conductance;  
 electric conductance; Conductivity; Volume conductivity;  
 sulation conductance; Resistance; Dielectric resistance; Re-  
 tivity; Dielectric constant; Permittivity; Dissipation factor;  
 ss index; *9174*. **SP305-3.**  
 king; Ultrasonic; Interferometer; Phase locked loop;  
*040*. **SP305-7.**  
 tion; Brakes; Coefficient of friction; Skid testers; Tire con-  
 uction; *12963*. **SP305-4.**  
 tion; Tractionizing; Siping; Stability; Stopping distance;  
 res; *TN566*. **SP305-3.**  
 tionizing; Siping; Stability; Stopping distance; Tires; Trac-  
 on; *TN566*. **SP305-3.**  
 le advantages; Cost of transition; Industrial cooperation;  
 etric system; *11760*. **SP305-2.**  
 itional property-rights; Unrestricted copying; Useful ser-  
 ce; Anti-trust violations; Better products; Copiers;  
 eveloper-producer's; Dormant patents; Higher productivity;  
 mprovements; Industrial stimulus; Industrial trade associa-  
 ns; *9780*. **SP305-1.**  
 tic allocation; Transportation; Algorithm; Least cost; *J73B*  
 p. 2, 91-118 (1969). **SP305-1.**  
 tic data systems; Highway traffic safety; Indicators; Safety  
 ogram impact; *NBSIR 74-561*. **SP305-6.**  
 tic fatalities; Exponential smoothing; Forecasting; Time-se-  
 ns; *13510*. **SP305-5.**  
 tic flow; Transportation theory; Allocation; Queueing  
 eory; Scheduling; Switching theory; *J72B No. 3*, 215-227  
 969). **SP305-1.**  
 tic monitoring; Bus-on-freeway demonstration project; Bus  
 ler surveys; Bus system evaluation; Bus transit; *15499*.  
**SP305-7.**  
 tic noise; Airborne and structure-borne sounds; Aircraft  
 ise intrusion; Annoyance; Appliance noise; Health and  
 aring hazards; Household noise; Legal and community ac-  
 on; Loudness; Noise control and abatement; *H119*. **SP305-**  
**8.**  
 tic noise; Alarm signals; Hearing; Loudness functions;  
 asking; Sirens; Speech recognition; *16573*. **SP305-8.**  
 tic signals; Aircraft signals; Color standards; Filter per-  
 nance; Limit filters; Railroad signals; Signal colors; Signal  
 andards; Spectral transmittance of glass filters; *TN564*.  
**SP305-3.**  
 ning; Education; Fire act; Fire data; Fire prevention; Fire  
 otecting; *13020*. **SP305-4.**  
 ning; Treaty of the Meter; Education; International System  
 Units; Metrication; Metric education; Metric system;  
*9441*. **SP305-8.**  
 ning; Weights; Laboratory; Measure; Standards; States;  
*7086*. **SP305-1.**  
 ning of dental researchers; Basic research related to dental  
 aterials; Dental materials; Interdisciplinary research; *SP354*,  
 p. 15-17. **SP305-4.**

Trains; Acoustics; Noise measurement; Noise (sound); Railroad  
 yard; *NBSIR 74-488*. **SP305-7.**  
 Trains; Configurations; Excluded volume effect; Loops;  
 Polymer adsorption; Surface layer;  $\Theta$ -point; *12240*. **SP305-3.**  
 Trajectories; Classical scattering matrix theory; Collision  
 theory; Scattering theory; *16593*. **SP305-8.**  
 Trajectories; Transition-state theory; Chemical reactions;  
 Chlorine molecules; Classical scattering matrix theory; Colli-  
 sion theory; Cross sections; Hydrogen atoms; Rate coeffi-  
 cients; Scattering theory; *16627*. **SP305-8.**  
 Trajectories; Uniform approximation; Chemical reactions; Clas-  
 sical scattering matrix theory; Collision theory; Hydrogen  
 atoms; Hydrogen molecules; Scattering theory; *16054*.  
**SP305-8.**  
 Trajectories; Vibrational energy; Chemical reactions; Classical  
 probability matrix theory; Classical scattering matrix theory;  
 Collision theory; Energy transfer in collisions; Hydrogen  
 molecules; Information theory; Scattering theory; *16607*.  
**SP305-8.**  
 Trajectory; Cross sections; Reactions; Regge pole;  $\text{SU}(3)$ ; Sym-  
 metry breaking; *14013*. **SP305-6.**  
 Trajectory; Cross sections; Reactions; Regge pole;  $\text{SU}(3)$ ; Sym-  
 metry breaking; *14166*. **SP305-6.**  
 Trajectory calculations; Transport processes; Chemical kinetics;  
 Cross sections; Rate theory; Scattering theory; *10604*. **SP305-**  
**1.**  
 Trajectory control; Computer control of automation systems;  
 Computer interface; Computer software for robot control;  
 Hierarchical control of manipulators; Position servos; *NBSIR*  
*75-973*. **SP305-8.**  
 Transceiver; Antenna; Communications; Law enforcement; Mo-  
 bile; Standard; *14552*. **SP305-6.**  
 Transceiver; Battery performance standard; Law enforcement  
 communications, Law Enforcement Standards Laboratory;  
 Personal/portable transceivers; Primary battery; Secondary  
 battery; *16296*. **SP305-8.**  
 Transceiver; Transmitter; Communications; Law enforcement;  
 Mobile transceiver; Performance standard; *14922*. **SP305-7.**  
 Transcendence proofs; Baker's extrapolation method; Ex-  
 trapolation; Hermite interpolation formula; Transcendental  
 numbers; *J77B Nos. 1 and 2*, 45-51 (1973). **SP305-5.**  
 Transcendental numbers; Transcendence proofs; Baker's ex-  
 trapolation method; Extrapolation; Hermite interpolation for-  
 mula; *J77B Nos. 1 and 2*, 45-51 (1973). **SP305-5.**  
 Transcritical flow; Turbulence; Circular cylinders; Power spec-  
 tra; Pressure fluctuations; Subcritical flow; Supercritical flow;  
*B5530*, pp. 87-91. **SP305-3.**  
 Transducer; Acceleration; Calibrator; Dual centrifuge; Dynam-  
 ic; Inter-agency Transducer Project; Life-cycling; Pressure;  
 Shock tube; Thermal transient; *10483*. **SP305-1.**  
 Transducer; Accelerometer; Air bearings; Calibrator ac-  
 celerometer; Dynamic; Earth's field; Inter-Agency Trans-  
 ducer Project; Low frequency; Rotational frequency  
 response; *13099*. **SP305-5.**  
 Transducer; Accelerometer; Air bearings; Calibrator ac-  
 celerometer; Dynamic; Earth's field; Interagency transducer  
 project; Low frequency; Rotational frequency response;  
*TN517*. **SP305-2.**  
 Transducer; Bias pressure; Calibration; Dynamic calibration;  
 Dynamic pressure; High pressure; Liquid medium; Pogo pres-  
 sure; Pressure source; Pressure transducer; Sinusoidal; Space  
 shuttle; *TN927*. **SP305-8.**  
 Transducer; Calibration; Compatibility; Cryogenic; Liquid ox-  
 ygen; Measurement; Oxygen; Performance; Pressure; Survey;  
*15155*. **SP305-7.**  
 Transducer; Calibration; Construction; Impact; Interface;  
 Piezoelectric polymer; Polymer; Pressure; Pressure trans-  
 ducer; Theory; *NBSIR 75-740*. **SP305-7.**

- Transducer; Calibration; Dynamic; Dynamic calibration; Dynamic pressure; Dynamic pressure source; Liquid column; Pressure; Pressure source; Pressure transducer; Sinusoidal pressure; *TN914*. **SP305-8.**
- Transducer; Calibration; Dynamic; Photo flashbulb; Pressure; Pressure measurement; Pressure transducer; Thermal transient; *NBSIR 75-654*. **SP305-7.**
- Transducer; Calibration; Dynamic; Liquid column; Pressure; Sinusoidal pressure; *NBSIR 75-708*. **SP305-7.**
- Transducer; Calibration; Dynamic calibration; Electro-mechanical; Performance; Pressure; Telemetry; Test method; *10666*. **SP305-1.**
- Transducer; Calibration; Dynamic; electronic flash; Photoflash bulb; Pressure; Pressure transducer response; Thermal transient; *NBSIR 75-732*. **SP305-7.**
- Transducer; Calibration; Performance; Test method; Dynamic calibration and telemetry; Electro-mechanical; Pressure; *TN411*. **SP305.**
- Transducer; Coatings; Photoflash bulb; Pressure transducer; Protective coatings; Thermal radiant-energy response; Thermal transient response; *NBSIR 76-1060*. **SP305-8.**
- Transducer; Dynamic calibration; Evaluation; InterAgency Transducer Project; Performance characteristics; Telemetry; *TN469*. **SP305-1.**
- Transducer; Dynamic calibration; Pressure; *NBSIR 73-290*. **SP305-6.**
- Transducer; Electroacoustic; Integration; *15804*. **SP305-8.**
- Transducer; High temperatures; Information services; Instrumentation; *10496*. **SP305-1.**
- Transducer; Ultrasonics; Electromagnetic transducer; EMAT; *16616*. **SP305-8.**
- Transducer; Underwater sound; Piezoelectricity; Piezoelectric modulus; Polymer; Polyvinylchloride; *12276*. **SP305-3.**
- Transducer; Zero shift; Calibration; Dynamic; Electronic flash; Photographic flashbulb; Pressure; Pressure measurement; Pressure transducer; Thermal transient; *TN905*. **SP305-8.**
- Transducer; Zero shift; Calibration; Dynamic; Electronic flash; Photoflash bulb; Pressure; Pressure measurement; Pressure transducer; Pressure transducer response; Response; Thermal transient; *NBSIR 76-1038*. **SP305-8.**
- Transducer instrumentation; Transducers; *10479*. **SP305-1.**
- Transducer calibration; Evaluation; Measurement; Performance; Pressure; Test methods; *11042*. **SP305-2.**
- Transducer calibration; Ultrasonic reference blocks; Acoustic emission; Aluminum; Fatigue cracks; Flat bottomed holes; Standards; Steel; Titanium; *16252*. **SP305-8.**
- Transducer calibration; Vibration; Boundary initial problems; Measurement; Pressure transducer; *TN856*. **SP305-7.**
- Transducer compendium; Velocity transducers; Vibration transducers; Acceleration transducers; Displacement transducers; Jerk transducers; Measurement of motion; Motion transducers; *12778*. **SP305-4.**
- Transducer instrumentation; Transducers; Transducer activities; *10479*. **SP305-1.**
- Transducer measurements; Ultrasonic instruments; Current probe; Impedance measurements; Piezoelectric transducer measurements; *13765*. **SP305-5.**
- Transducer workshop; NBS; *10455*. **SP305-1.**
- Transducers; Electrets; Hydrophone; Piezoelectric; Polymers; Polyvinylidene fluoride; Pyroelectric; Radiometer; *NBSIR 75-760*. **SP305-7.**
- Transducers; Flush diaphragm; Pressure gage; Temperature; Temperature gradient; *9258*. **SP305.**
- Transducers; Linear differential operators; Reciprocity relations; Scattering matrix; *J.79B Nos. 1 and 2, 17-39 (1975)*. **SP305-7.**
- Transducers; Piezoelectric; Polymeric transducer; Polymers; Polyvinyl fluoride; Polyvinylidene fluoride; Stress gages; *16141*. **SP305-8.**
- Transducers; Transducer activities; Transducer instrument; *10479*. **SP305-1.**
- Transducers; Triplet formation; Absolute quantum efficiency; Absolute quantum yield; Calorimetry; Luminescence; Photoacoustic spectrometer; Piezocalorimeter; *J. Res. No. 3, 413-419 (1976)*. **SP305-8.**
- Transducers; Uncertainty; Weighing; Calibration; Force; cells; Proving rings; *TN436*. **SP305-1.**
- Transducers; Vibration; Vibration exciters; Vibration piezoelectric; Acceleration; Automation; Calibration; Measurement; Shakers; Standards; *15569*. **SP305-7.**
- Transducers; Vibration; Vibration exciters; Vibration piezoelectric; Acceleration; Automation; Calibration; Measurement; Minicomputer; Shakers; Standards; *NBSIR 74-482*. **SP305-7.**
- Transducers; Wind vanes; Wind loads; Anemometers; Instrumentation; Tower interference; *B5530*, p. 21. **SP305-3.**
- Transducers; Zero shift; Coatings; Dynamic; Dynamic response; Pressure transducer; Protective coatings; Shock tube; Thermal radiant-energy response; Thermal transient response; *NBSIR 76-1144*. **SP305-8.**
- Transfer; AC; DC; Operation; Precision; Rectifier; *J.73C 3 and 4, 47-55 (1969)*. **SP305-1.**
- Transfer; Benefits, industry-society; Materials research; Measurements-standards; NBS-industry; *16280*. **SP305-8.**
- Transfer; Electrical conductivity; Slag; *13683*. **SP305-5.**
- Transfer; Innovation; Procurement; Specifications; Standard Technology; *15595*. **SP305-7.**
- Transfer energy; Acidity; Medium effects; Mixed solvents; Ionization of ions; Solvent effect; *10827*. **SP305-1.**
- Transfer equation; Planetary nebulae; Stellar atmosphere; *11815*. **SP305-3.**
- Transfer equation; Plasma diagnostics; Radiating gases; Radiative transfer; Spectral lines; *13236*. **SP305-5.**
- Transfer function; Acutance; Calibration; Computer program; Microdensitometry; Photographic edges; *NBSIR 75-10305-7*. **SP305-7.**
- Transfer function; Deflector; Drift space; Oscilloscope; Standard; Strip-line; *J.72C No. 2, 117-125 (1968)*. **SP305-1.**
- Transfer function; Discrete Fourier transform; Fast Fourier transform; Frequency spectra, discrete; Network transfer function; Time domain waveform; *13417*. **SP305-5.**
- Transfer function; Impulse response; Linear microdensitometry; Microdensitometry; Optics; Slit imagery; *15326*. **SP305-7.**
- Transfer Hamiltonian; Field emission; Surface density of states; *16418*. **SP305-8.**
- Transfer impedance; Transmissivity equalization; Vibration acceleration response; Evaluation; Fatigue life; Lumped parameter system; Mechanical impedance; Random vibration; Test; *SP336*, pp. 509-524. **SP305-3.**
- Transfer lines; Chillo down, cooldown time; Cryogenic fluid; *11143*. **SP305-2.**
- Transfer of technology; Technological measurements; *10305-1*. **SP305-1.**
- Transfer pipelines; Transients; Surges; Cooldown; Cryogenic fluid flow; Heat transfer; *11780*. **SP305-2.**
- Transfer reactions; Free radicals; Polymer abnormalities; Polymer degradation; Polymer pyrolysis; *SP357*, pp. 6-10. **SP305-4.**
- Transfer standard; AC; Calibration; DC; Intercomparison; Measurement; *10107*. **SP305-1.**
- Transfer standard; AC; Calibration; DC; Intercomparison; Measurement; *11170*. **SP305-2.**
- Transfer standard; AC-dc transfer; Comparator; Thermal energy converter; *13098*. **SP305-5.**
- Transfer standard; Transverse motion; Vibration pickup; Accelerometer; Axial motion; Ceramic; Comparison calibration; *9813*. **SP305-1.**
- Transfer standard; Uniformity checks; -1 to 50 MeV; X-ray; sorbed dose; Calibration; Electrons; Ferrous-sulfate system

graphite calorimeter; Interim program; Photons; 11299. SP305-2.

Standard detector; XUV photodiode; Radiometry; Rise time; Temporal response; 15226. SP305-7.

Standard detectors; Calibration of detectors; Corrections for second order radiation; Far ultraviolet; Noble gas double ionization chamber; Synchrotron radiation; 14987. SP305-7.

Standard detectors; Vacuum ultraviolet radiation standards; Continuum radiation; Diodes; Irradiance standard; Synchrotron radiation; 14997. SP305-7.

Standards; Ac-de transfer standards; Alternating current and voltage; Thermal converters; 9783. SP305-1.

Standards; Automatic vehicle location; Dissemination of time and frequency; Portable clocks; Radio propagation; Satellite time dissemination; Television time and frequency dissemination; Time-frequency; Time signal noise; System designs; 14333. SP305-5.

Standards; Calorimeters; Fiber glass; Foam insulation; Insulation transfer-standard; Multilayer insulation; Thermal insulation; 13416. SP305-5.

Standards; Dissemination of time and frequency; Portable clocks; Radio propagation; Satellite time dissemination; Television time and frequency dissemination; Time signal noise; Time-frequency system designs; 14335. SP305-5.

Standards; Government agencies; Measurement assurance program; Permissible limits; Radiation; Regulations; Standards; 14583. SP305-6.

Standards; Ultraviolet absorbance standards; Absorbance linearity; Accuracy; Acidic potassium dichromate solutions; Calibration of ultraviolet spectrophotometers; Liquid filters; *J. Res.* 80A No. 4, 631-636 (1976). SP305-8.

Standards; Voltage comparator; Voltage measurements; Audio-frequency; Comparator; Standards; Thermoelements; Thermoelements; 9782. SP305-1.

Standards; Wall-stabilized; Hydrogen; Krefft-Rössler lamp; Spectral distance; 13646. SP305-5.

Standards; Voltage comparator; Voltage measurements; Frequency compensation; Temperature compensation; Thermoelement; 11200. SP305-2.

Standards; Voltage measurements; AC-DC difference; Comparator; Thermoelement; *J75C Nos. 3 and 4*, 145-153 (971). SP305-3.

Standards; Transit time; Conductivity; Counterion; Diffusion; Polyelectrolyte; 11339. SP305-2.

Standards; Batteries; Debye-Hückel-Onsager theory of conductance; Electrochemical thermodynamics; Electrode mechanisms; Electrolytic conductivity; Fuel cells; Ionic charge; Ionization; Standard cells; 10559. SP305-1.

Standards; Hexachloromolybdate complex ion; Iodine salt; 11971. SP305-3.

Standards; Hyperfine; Interaction; Nuclear spin system; Ions; 11755. SP305-2.

Standards; Automobile; Economic; Energy; Model; 1403, pp. 65-74 (June 1976). SP305-8.

Standards; Algorithm; Wiswesser; Acyclic; Benzene; Chemical structure notations; Connection tables; Contractions; Ring system; Syntax analysis; 10550. SP305-1.

Standards; Algorithm; Wiswesser; Acyclic; Benzene; Chemical structure notations; Connection tables; Contractions; Ring system; Syntax analysis; *TN432*. SP305-1.

Standards; Algorithm; Wiswesser; Acyclic; Benzene; Chemical structure notations; Connection tables; Contractions; Ring system; Syntax analysis; 10947. SP305-2.

Standards; Coefficients; Angular momentum; Asymmetric rotor; Eigenfunction; Microwave spectra; Rotational spectrum; *NSRDS-NBS12*. SP305-1.

Transformation matrix; Bravais lattice; Identification; Reduced cells; 12414. SP305-4.

Transformation of variables in probability distributions; Bayes' theorem; Central limit theorem; Characteristic function of a distribution; Mathematical probability; Mean values of random variables; Probability distributions; Probability inequalities; 10926. SP305-2.

Transformation theory; Angular momentum; Diagrams; Graphs; Quantum theory; Recoupling; *Monogr.* 136. SP305-5.

Transformations; Weighting; Interlaboratory comparisons; Invariance; Models; Precision; Precision of measurement; Repeatability; Reproducibility; Test methods; 15909. SP305-8.

Transformed weights; Implicit model; Least-squares analysis; 14797. SP305-7.

Transformer; Auxiliary generator; Bridge; Coaxial choke; Mutual inductor; Stray magnetic field; *J70C4-233*, 221-226 (1966). SP305.

Transformer; Current comparator; Current ratio; Shielding; Superconductivity; 14558. SP305-6.

Transformer; Densimeter; Density; Differential; 14730. SP305-7.

Transformer; Transformer overcurrent protection; High voltage transformer protection; Overcurrent; Overcurrent protection; Solid-state overcurrent protection circuit; 16381. SP305-8.

Transformer; Two-stage voltage transformer; Voltage divider; Voltage ratio; Calibration; In-phase deviation; Inductive voltage divider; Measurements; Quadrature deviation; Ratio calibration; *J72C No. 1*, 49-59 (1968). SP305-1.

Transformer; Vector potential; Leakage flux; Magnetic field; Toroid; 12371. SP305-3.

Transformer; Vector potential; Magnetic field; Solenoid; Toroid; 12372. SP305-3.

Transformer; Voltage-divider; Voltmeter; Alternating-current; Calibration; Direct-current; High-voltage; Ratio; Safety; Standards enclosure; *TN349*. SP305.

Transformer; Wide-range; Calibration; Current comparator; Current transformer; Overload testing; Self-balancing current comparator; 12256. SP305-3.

Transformer alloy; Bitter patterns; Contrast mechanisms; Magnetic domains; Nickel; Scanning electron microscopy; 13937. SP305-6.

Transformer bridges; Transformer ratio measurements; Two-pair admittances; AC DRRS; Coaxial cable effects; Coaxial star connectors; Extrapolation techniques; Four-pair admittances; Permutation techniques; Precision admittance standards; Precision capacitance measurements; 14924. SP305-7.

Transformer overcurrent protection; High voltage transformer protection; Overcurrent; Overcurrent protection; Solid-state overcurrent protection circuit; Transformer; 16381. SP305-8.

Transformer ratio measurements; Two-pair admittances; AC DRRS; Coaxial cable effects; Coaxial star connectors; Extrapolation techniques; Four-pair admittances; Permutation techniques; Precision admittance standards; Precision capacitance measurements; Transformer bridges; 14924. SP305-7.

Transformer sheet; Divergent beam x-ray diffraction; Electron probe microanalysis; Iron-silicon alloy; Kossel; Strain; Stress; *Monogr.* 130. SP305-5.

Transformer steel; Backscattered electrons; Domain walls; Magnetic domains; Scanning electron microscope; Silicon steel; 15921. SP305-8.

Transformer steel; Contrast mechanism; Electron backscattering energy filtering; Iron; Magnetic domains; Monte Carlo methods; Scanning electron microscopy; 13731. SP305-5.

Transformer-ratio-arm; Audio-frequency; Bridge; Four-terminal resistance; High current; Operational amplifier; Phase angle; Resistance; 14877. SP305-7.

- Transformers; Aircraft; Bend tests; Bolted joints; Bolts; Cracking (fracturing); Crack initiation; Cyclic loads; Differentiating circuits; Digital to analog converters; Failure; Fasteners; Fatigue (materials); Fatigue tests; Linear systems; 13082. SP305-5.
- Transformers; Askarel; Capacitors; Insulating fluids; Liquid insulators; Polychlorinated biphenyls; *NBSIR 76-1054*. SP305-8.
- Transformers; Dielectric fluids; Heat transfer; Plasticizers; Polychlorinated biphenyl; 13074. SP305-5.
- Transformers, amplifier-aided; Transformers audio frequency current; Transformers, calibration of; Transformers, capacitive error trimming; Transformers, precision current; Transformers, two-stage current; Current measurement, audio frequency; 13238. SP305-5.
- Transformers audio frequency current; Transformers, calibration of; Transformers, capacitive error trimming; Transformers, precision current; Transformers, two-stage current; Current measurement, audio frequency; Current ratio measurement; 13238. SP305-5.
- Transformers, calibration of; Transformers, capacitive error trimming; Transformers, precision current; Transformers, two-stage current; Current measurement, audio frequency; Current ratio measurement; Current transformers, audio frequency; Current transformers, precision; 13238. SP305-5.
- Transformers, precision current; Transformers, two-stage current; Current measurement, audio frequency; Current ratio measurement; Current transformers, audio frequency; Current transformers, precision; Transformers, amplifier-aided; 13238. SP305-5.
- Transformers, two-stage current; Current measurement, audio frequency; Current ratio measurement; Current transformers, audio frequency; Current transformers, precision; Transformers, amplifier-aided; 13238. SP305-5.
- Transformers, two-stage current; Current measurement, audio frequency; Current ratio measurement; Current transformers, audio frequency; Current transformers, precision; Transformers, amplifier-aided; 13238. SP305-5.
- Transformers; Chemical analysis; Curve fitting; Distribution functions; Experiment planning and optimization; Measurement process; On-line computers; Recognition techniques; Review; Statistics; 14294. SP305-6.
- Transformers; Execution; Execution monitoring; FORTRAN analysis; Source code instrumenting; Static analysis; 15918. SP305-8.
- Transient; Absorption; Acoustic; Adiabatic; Fluid; Heat-conducting; Inviscid; Isothermal; Kirchhoff-Langevin equation; Stability; Steady-state; Thermal; *J74B No. 2, 67-84 (1970)*. SP305-2.
- Transient; Automated measurement; Pulse; Rise time; Sampling oscilloscope; Spectrum amplitude; Time domain; 16477. SP305-8.
- Transient; Calorimetry; Constant current power supply; Energy measurement; Power averaging; Switch contact arrangement; 10872. SP305-2.
- Transient; Transmissibility; Analysis; Cables; Coaxial; Skin effect; Time-domain; 13034. SP305-4.
- Transient analysis; Transmission lines; Cables; Coaxial; Pulse response; 13378. SP305-5.
- Transient beam-loading; Waveguide; Electron; Energy loss; Linear accelerator; Short pulse; 11369. SP305-2.
- Transient creep; Viscoelastic; Amalgam; Creep; Dental; Steady-state creep; Stress-strain; *J72C No. 3, 203-213 (1968)*. SP305-1.
- Transient flow; Water hammer; Computer modeling; Cooldown; Cryogenic fluid; Stresses; Surges; *NBSIR 74-366*. SP305-6.
- Transient head conduction; Cylinder; Multilayer structures; Response factors; Sphere; 11033. SP305-2.
- Transient heat flows; Air leakage measurement; Building transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; Temperature predictions; Thermal analysis; Thermostat setback; *BS SP305-7*.
- Transient heat flows; Building heat transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; Temperature predictions; Thermal analysis; Thermal behavior; *BS345*. SP305-5.
- Transient heat flows; Building heat transfer; Computer programs; Dynamic thermal performance; Heat flow analysis; Heating and cooling loads; Thermal analysis; 15762. SP305-8.
- Transient heat transfer; Forced convection heat transfer; Power systems; Pulsed superconducting magnets; Superconductor losses; Supercritical helium; *NBSIR 74-363*. SP305-4.
- Transient heat transfer; Performance coefficients; Thermal insulation; 12471. SP305-4.
- Transient mutations; 6-deoxy- $\alpha$ -D-glucopyranose derivative; General Overhauser effect; Internuclear double resonance; Long-range coupling; Magnetic equivalence factoring; Spectroscopy; 12693. SP305-4.
- Transient mutations; 6-Deoxy- $\alpha$ -D-glucopyranose derivative; General Overhauser effect; Internuclear double resonance; Long-range coupling; Magnetic equivalence factoring; Spectroscopy; 12272. SP305-3.
- Transient pulse-acoustical; Acoustical pulse; Longitudinal shear sound waves; Solids sound speed accuracy; Speed of sound; *J75C No. 1, 33-40 (1971)*. SP305-3.
- Transient response Debye dielectric; Pulse distortion in transmission lines; Pulse techniques; Reference waveform generation; Time domain measurements; *NBSIR 73-304*. SP305-5.
- Transient species; Boron monofluoride; Dipole moment; Discharge; Microwave spectrum; Quadrupole structure; Rotational transitions; 14382. SP305-6.
- Transient species; BrO; Free radical; Magnetic hyperfine; Microwave spectrum; Rotational spectra; 12669. SP305-5.
- Transient species; Methyleneimine; Microwave spectrum; Polymers; Quadrupole structure; Rotational transitions; 13378. SP305-5.
- Transient techniques; Heat capacity; High pressures; Thermal conductivity; Thermal diffusivity; Thermal properties; 15918. SP305-8.
- Transient techniques; Transport properties; Heat transfer; Thermal conductivity; Thermal diffusivity; Thermophysical properties; 14251. SP305-6.
- Transient temperature; Extensometer; High temperature; Laboratory standard; Strain gage; 12633. SP305-4.
- Transient thermal gradients; Ultrasonics; Velocity; Absorption; Attenuation; Impedance gradient; *SP453*, pp. 143-151 (1976). SP305-8.
- Transients; Accelerators; Beam loading; Dispersive effects; Linear accelerator; 12864. SP305-4.
- Transients; Surges; Cooldown; Cryogenic fluid flow; Heat transfer; Transfer pipelines; 11780. SP305-2.
- Transients; 12209. SP305-3.
- Transistor; EDP system; Patent; Patent information retrieval; Patent search; 9644. SP305-1.
- Transistor; Ultrasonic bonding; Wire bonding; Aluminum; High reliability; Integrated circuit; Metallization; Scanning electron microscope; *TN785*. SP305-5.
- Transistor; Variable; Current; Generator; Magnetic; Spectroscopy; 10127. SP305-1.
- Transistor; Voltage regulation; Zener diode; D-C amplifier; Design equations; Differential amplifier; Dual regulated integrated circuit; Output resistance; Power supply; Preselector; Regulation factor; Ripple voltage; *TN371*. SP305-1.
- Transistor; Zeeman; Current; Modulator; Nuclear; Spectroscopy; Quadrupole; Resonance; Spectroscopy; 12350. SP305-3.



resistor die attachment; Die attachment evaluation; Diode  
 attachment; Screen; die attachment; 14035. SP305-6.  
 resistor noise; Atomic frequency standards; Capacitor noise;  
 cesium beam; Flicker phase noise; Frequency multipliers;  
 frequency standards; Hydrogen maser; Negative feedback;  
 noise; Phase noise; RF amplifiers; 10968. SP305-2.  
 resistor, power; Current crowding; Hot spots; Reliability;  
 life operating area limits; Second breakdown; Semiconductor  
 devices; Thermal resistance; 16328. SP305-8.  
 resistor reliability; Transistors; Circuit reliability; Diodes;  
 failure mechanisms; Failure modes; Review; Second break-  
 down; Semiconductor devices; Thermal breakdown; 10230.  
 305-1.  
 resistor screening; Current constriction; DC current gain;  
 hot-spot screening; Methods of measurement; Power  
 resistors; Reliability; Thermal hysteresis; Thermal resis-  
 tance; Thermographic measurements; 12474. SP305-4.  
 resistor-chip temperature; Surface temperature; Temperature  
 measurement; Temperature-sensitive phosphor; Thermo-  
 phosphor phosphor; TN591. SP305-3.  
 resistors; Bibliography; Device reliability; Diodes; Failure  
 mechanisms; Failure modes; Second breakdown; Semicon-  
 ductor devices; Thermal breakdown; TN431. SP305.  
 resistors; Breakdown; Diodes; Reliability; Second break-  
 down; Thermal instability; 10048. SP305-1.  
 resistors; Circuit reliability; Diodes; Failure mechanisms;  
 failure modes; Review; Second breakdown; Semiconductor  
 devices; Thermal breakdown; Transistor reliability; 10230.  
 305-1.  
 resistors; Delay time; Measurement errors; Radiation effects;  
 546. SP305-6.  
 resistors; Diodes; Failure mechanisms; Internal current dis-  
 tributions; Second breakdown; Semiconductors; Temperature  
 sensitive phosphors; 10050. SP305-1.  
 resistors; Electronics; Failure mechanism; P-n junctions; Re-  
 liability; Second breakdown; 10781. SP305-1.  
 resistors; Electronics; High-frequency probes; Interlaboratory  
 comparison; Scattering parameters; S parameters; SP400-5.  
 305-7.  
 resistors; Failure analysis; Hot spots; Integrated circuits;  
 laser scanner; Measurement method; Nondestructive test;  
 nonlinear operation; Optical scanner; Reliability; SP400-27.  
 305-8.  
 resistors; Modulators; Radio communications; Radio  
 receivers; TN100-A, Supplement to Appendix C of TN100.  
 305.  
 resistors; Ultrasonic bonding; Wire bonds; X-ray photoelec-  
 tron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-  
 temperature stress test; Boron redistribution; Capacitance-  
 tape methods; Charge-coupled device structures; Darling-  
 ton pairs; Deep depletion; SP400-19. SP305-8.  
 resistors; Vector voltmeter; Delay time; Electronics; High-  
 frequency probes; Sandia bridge; Scattering; S-parameters;  
 JSIR 73-152. SP305-6.  
 resistors; Wire bond; Bond pull test (nondestructive); Metal-  
 lical; Reliability (microelectronic); 15430. SP305-7.  
 resistors; X-ray diffraction microscopy; Dislocations; Failure  
 mechanisms; Second breakdown; Semiconductors; 10051.  
 305-1.  
 resistors, hot spot detection; Current gain, hot spot detec-  
 tion; Hot spots, current gain as indication of; Power  
 resistors, screening; Screening for hot spots, transistors;  
 thermal hysteresis, transistors; 13219. SP305-5.  
 resistors, power, safe-operating area; Method of measure-  
 ment, electrical; Semiconductor devices; Temperature, peak;  
 thermal properties; 14993. SP305-7.  
 resistors (thermal measurements); Computer simulation  
 transient thermal; Current crowding (transistors); Power  
 resistors; Thermal impedance measurements; Thermal  
 response measurements; 14616. SP305-6.  
 Transistors (thermal measurements); Computer simulation  
 (transient thermal); Current crowding (transistors); Power  
 transistors; Thermal impedance measurements; Thermal  
 response measurements; 14963. SP305-7.  
 Transit operations; Bus transit; Busway operations; Commuter  
 travel behavior; Express bus-on-freeway operations; Project  
 evaluation; NBSIR 74-464. SP305-6.  
 Transit service features; Attitudinal survey; Bus-on-freeway; Ex-  
 clusive bus lanes; Importance assessments; Interior bus fea-  
 tures; Mass transit technology; Satisfaction assessments;  
 13644. SP305-5.  
 Transit time; Conductivity; Counterion; Diffusion; Polyelec-  
 trolyte; Transference; 11339. SP305-2.  
 Transit time; Ultrasonic pulses; Fluid range; Measure pressures;  
 Pressure gages; Pressure-sensitive components; Regenerating  
 circuits; 10563. SP305-1.  
 Transition; Band structure; Chemical analysis; Copper; Creep;  
 Crystal defects; Crystal growth; Diffusion; Evaporation; Frac-  
 ture; Glass; High temperature materials; Inhomogeneities in  
 glass; Laser damage; Laser glass; Lasers; Mass transport;  
 TN514. SP305-2.  
 Transition; Band structure; Chemical analysis; Copper; Creep;  
 Crystal defects; Crystal growth; Diffusion; Evaporation;  
 Glass; High temperature materials; Inhomogeneities in glass;  
 Laser damage; Laser glass; Lasers; Mass transport; TN531.  
 SP305-2.  
 Transition; Boundary layer; Roughness; Two-dimensional; Sta-  
 bility; 12807. SP305-4.  
 Transition; Coaxial; Cylindrical; Error; Line; Loss; Response;  
 Skin effect; Step; Time; 15696. SP305-7.  
 Transition; Hot-wire anemometry; Instability; Laminar bounda-  
 ry layer; Roughness; 9847. SP305-1.  
 Transition; Turbulent; Airfoil theory; Boundary layer; Drag;  
 Heat transfer; Laminar; Lift; Skin friction; Subsonic; Super-  
 sonic; 12786. SP305-4.  
 Transition; Turbulent flow; Buoyancy; Channels; Film boiling;  
 Forced convection; Helium I; Helium II; Mixed convection;  
 Nucleate boiling; Subcritical; Supercritical; TN675. SP305-8.  
 Transition; Ultrasonically; Hexadecapole; Induced; Nuclear;  
 9356. SP305.  
 Transition; Vibrational; Acetylene probability; Franck-Condon  
 factors; Photoionization; 10027. SP305-1.  
 Transition alloys; Vapor pressure; Electrical resistivity; Iron;  
 Molybdenum pentafluoride; Partly associated vapors; Solid-  
 state transformations; Solution calorimetry; Specific heat;  
 Spectral emittance; NBSIR 73-281. SP305-6.  
 Transition array; Calculated line strengths; Configuration in-  
 teraction; Intermediate coupling; Ti II;  $3d^4$ ,  $3d^4 4s$ ,  $3d^4 4p$  con-  
 figurations; J.73A No. 1, 51-64 (1969). SP305-1.  
 Transition calculations; Asymmetric rotors; Matrix elements;  
 Rotational line intensities; Singlet-triplet transitions; Spin for-  
 bidden transitions; 12313. SP305-3.  
 Transition charge; Charge density; Coulomb energy; Coulomb  
 excitation; Electron scattering; Form factors; Sum rules;  
 14851. SP305-7.  
 Transition elements; Alloy phases; Atomic ordering; A15-type  
 phases; Chromium alloys; Electron compounds; Intermediate  
 phases; Nonstoichiometric phases; Osmium alloys; Platinum  
 alloys; 9517. SP305.  
 Transition elements; Atomic ordering; Binary A-15 compounds;  
 Superconductivity; 11864. SP305-3.  
 Transition elements; Triphenylphosphine; Tungsten bronze;  
 Electrocatalysis; Fuel cells; Mixed oxides; Oxygen reduction;  
 Phosphoric acid; Ternary metal-sulfur arrays; NBSIR 75-742.  
 SP305-8.  
 Transition from I  $\rightarrow$  III; Potassium nitrate; Procedure of ICTA  
 Standards Committee and NBS; Standard in thermal analysis;  
 14906. SP305-7.

- Transition heat; Transition temperature; Vaporization heat; Vaporization temperature; Fusion heat; Fusion temperature; *14205. SP305-6.*
- Transition metal; Aluminum oxide; Band structure; Borides; Bulk optical properties; Chemical analysis; Chromium ions; Corundum; Crystal defects; Crystal growth; Density of states; Diffusion; Glass; High temperature materials; Laser damage; *7N565. SP305-3.*
- Transition metal; Coordination polyhedra; Crystal structure; Intermetallic; Phosphides; Refractory; Sulfides; *SP364, pp. 651-662. SP305-4.*
- Transition metal; Transition temperature; Dielectric function; Superconductor; *13532. SP305-5.*
- Transition metal; Transport properties; Tungsten (W); Chromium; Electronic density of states; Iridium; Low-temperature specific heat; Magnetic susceptibility; Molybdenum; Niobium; Palladium (Pd); Platinum; Rhenium; Rhodium; *SP323, pp. 685-690. SP305-4.*
- Transition metal; Zero phonon line; Charge transfer, color centers; Crystal field;  $D^4$  ions; EPR; Iron 4+; Optical absorption; Perovskite; Strontium titanate; *16201. SP305-8.*
- Transition metal borides; Copper; Creep; Crystal growth; Diffusion; Enthalpy; Evaporation; Fracture; Glass band structure; High temperature materials; Mass transport; Materials properties; Mechanical relaxation; Oxides; Polymers; Pyrolytic graphite; *TN494. SP305-1.*
- Transition metal carbide; Adsorption; Catalysis; Electronic structure; Surface states; *SP455, pp. 87-92 (Nov. 1976). SP305-8.*
- Transition metal carbides; Transition metal oxides; Tungsten bronze; Tungsten carbide; Electrocatalysis; Heteropolyanions; Phosphotungstate complex ions; "spillover" effect; *SP455, pp. 167-174 (Nov. 1976). SP305-8.*
- Transition metal complexes; Catalysis; Chemisorption theory; Metal clusters; Molecular orbitals; Quantum chemistry; *SP455, pp. 67-86 (Nov. 1976). SP305-8.*
- Transition metal compounds; Bonding; Carbides; Cohesive energy; Density of states; Electronic structure; Heat of formation;  $L_{II,III}$  spectra; Refractory hardmetals; Ti; TiC; *SP364, pp. 567-582. SP305-4.*
- Transition metal compounds; Transport measurements; Electronic band structure; Oxides; Semiconductors; Strontium titanate; *11623. SP305-2.*
- Transition metal compounds; Vanadium carbide; Carbides; Electron diffraction; Interpretation of ordering effects; Niobium carbide; Ordering effects; Superlattice; Tantalum carbide; *SP364, pp. 583-590. SP305-4.*
- Transition metal coordination complex; X-ray structure determination; Biimidazole and water ligands; Hydrogen bonding; *11227. SP305-2.*
- Transition metal diborides; Band structure; Borides; Density of states; Emission spectra; Soft x ray; *14070. SP305-6.*
- Transition metal diborides; Electric quadrupole coupling constant; Knight shift; NMR;  $ScB_2$ ; *12487. SP305-4.*
- Transition metal ions; Chromium 3+; Crystal vacancies; Cubic crystals; Depolarization; Impurity compensation; Luminescence; Magnesium oxide;  $MgO$ ; Optical properties; Polarized luminescence; Symmetry; *16521. SP305-8.*
- Transition metal oxides; Catalysis; Chemisorption; Cluster states; Electronic structure; Energy bands; Perovskites; Surface states; *SP455, pp. 21-52 (Nov. 1976). SP305-8.*
- Transition metal oxides; Conductivity; Ferrites; Hall mobility; Thermal emf; *11342. SP305-2.*
- Transition metal oxides; Electronic transport;  $LaCoO_3$ ; Magnetic ordering; *11809. SP305-3.*
- Transition metal oxides; Tungsten bronze; Tungsten carbide; Electrocatalysis; Heteropolyanions; Phosphotungstate complex ions; "spillover" effect; Transition metal carbides; *SP455, pp. 167-174 (Nov. 1976). SP305-8.*
- Transition metal-Co(III)-coordination complex; Dipyrindin nitrate ligands; Hydrogen bonding; Monoclinic symmetry; Octahedral coordination; *12557. SP305-4.*
- Transition metals; A15-type phase; Atomic packing; Beta sten phase; Electronic structure; Order-disorder transition; Ordering of atoms; Phase stability; Sigma p; *10498. SP305-1.*
- Transition metals; Co; Cr;  $d$ -band widths; Electronic structure; Fe; Ferromagnetism; Soft x-ray emission; Soft x-ray spectroscopy; *15780. SP305-8.*
- Transition metals; Crystal structure; Magnetic properties; earth; Ternary chalcogenides; *SP364, pp. 645-650. SP305-4.*
- Transition metals; Mass spectrometry; Positive and negative ions; Sublimation; *J.74A No. 1, 37-43 (1970). SP305-2.*
- Transition metals; Rare earth intermetallic compounds; ionic compounds; Chemical bond; Electronic density of states; Fermi surface; Pauling radii; *SP323, pp. 38-40. SP305-4.*
- Transition metals; X-ray photoemission; ZnS;  $CdCl_2$ ; Density of states;  $HgO$ ; Noble metals; Rigid band model; *SP322, 163-178. SP305-4.*
- Transition metals; X-ray photoemission; ZnS;  $CdCl_2$ ; Density of states;  $HgO$ ; Noble metals; Rigid band model; *J.74A No. 1, 543-558 (1970). SP305-2.*
- Transition mixing ratios;  $^{199}Ir$ , magnetic moment of; Beta angular distribution of; Gamma rays, angular distribution; Hyperfine field in iron; Nuclear orientation; *12005. SP305-3.*
- Transition moment; Ab initio calculation;  $O_2$  absorption; oscillator strength; *15872. SP305-8.*
- Transition moment; Electronic dipole moment; Internuclear distance; Laser fluorescence;  $Na_2$ ; *14810. SP305-7.*
- Transition moment; Ultraviolet; Ab initio potential curve; Carbon dioxide; Quasi-linear molecule; Renner splitting; Temperature dependent absorption coefficient; *12458. SP305-7.*
- Transition pressure; High pressure; Piston gauge; Pressure measurement; *10159. SP305-1.*
- Transition pressure; Volume change; Bismuth; Free piston; High pressure; Polymorphic phase transition; *9785. SP305-7.*
- Transition pressures; Diamond-anvil pressure cell; Fixed pressure scale; High pressure; NaCl pressure scale; Pressure measurement; Ruby fluorescence; Semiconductors; *11623. SP305-7.*
- Transition probabilities; Allowed and forbidden transitions; Aluminum; Argon; Calcium; Chlorine; Magnesium; Oscillator strengths; Phosphorus; Potassium; Silicon; Sodium; *NSRDS-NBS22. SP305-1.*
- Transition probabilities; Allowed transitions; Line strengths; Oscillator strengths; Scandium; Titanium; *J. Phys. Chem. Data 4, No. 2, 263-352 (1975). SP305-7.*
- Transition probabilities; Aluminum; Auger electron transitions; Electronic density of states; Final state effects; Silver; *11623. SP305-5.*
- Transition probabilities; Analyses of optical spectra; Atomic spectra; Data centers; Molecular spectra; Rare earth spectra; *11236. SP305-2.*
- Transition probabilities; Ar I; Intermediate coupling; Lifetime measurements; Local thermal equilibrium; Spectra; *SP305-1.*
- Transition probabilities; Ar II; Argon; Lifetimes; *SP305-2.*
- Transition probabilities; Argon; Iron; Oscillator strengths; *11722. SP305-2.*
- Transition probabilities; Argon; Atomic spectra; *J.71A No. 1, 575-583 (1967). SP305.*
- Transition probabilities; Astrophysics;  $f$ -values; Oscillator strengths; *14051. SP305-6.*
- Transition probabilities; Atomic data; Atomic energy levels; Atomic line shapes; Atomic spectra; Data compilation; Lasers; *15300. SP305-7.*

transition probabilities; Atomic energy levels; Gaseous nebulae; Non-LTE thermodynamics; Solar physics; *SP353. SP305-3.*

transition probabilities; Atomic spectra; Cross section;  $f$ -values; Molecular spectra; Photoionization; Rare-earth; Review; Spectroscopy; *12683. SP305-4.*

transition probabilities; Atomic spectra; References; Spectroscopy; *12169. SP305-3.*

transition probabilities; Atomic spectra; Multiplet tables; Rare-earth spectra; Spectra, far ultraviolet; *9210. SP305.*

transition probabilities; Atomic spectra; Rare-earth spectra; Solar spectrum; *9949. SP305-1.*

transition probabilities; Ba I; Ba II; Line strengths; Oscillator strengths; *12662. SP305-4.*

transition probabilities; CO; CO<sup>+</sup>; Electronic transition moment integrals; Franck-Condon factors; Franck-Condon principle; *J.72A No. 5, 495-503 (1968). SP305-1.*

transition probabilities; Energy loss; O<sub>2</sub>; Oscillator strengths; Oxygen; *15999. SP305-8.*

transition probabilities; Exponential relaxation; Master equation; Moments; Probability distributions; Relaxation; *9527. SP305.*

transition probabilities; Hartree-Fock; Interaction energy; LiHe; NaHe; *12326. SP305-3.*

transition probabilities; Neon; Spectrum; *11867. SP305-3.*

transition probabilities; Oscillator strengths; Spectra, atomic; Erbium; *10739. SP305-1.*

transition probabilities; Triple commission for spectroscopy; Ultraviolet atomic spectra; Atomic spectra; Rare-earth spectra; *9951. SP305-1.*

transition probabilities; Ultrasonic (paramagnetic) resonance; Ultrasonic transition probabilities; Wave functions of Gd<sup>+++</sup>; Torundum; Spin Hamiltonian; Energy levels of Gd<sup>+++</sup>; *J.75A No. 5, 493-523 (1971). SP305-3.*

transition probabilities; Ultraviolet spectra; Atomic spectra; anhanon spectra; Molecular spectra; Rare earth spectra; *10406. SP305-1.*

transition probabilities; Ultrasonic (paramagnetic) resonance; Ultrasonic transition probabilities; Wave functions of Fe<sup>+++</sup>; energy levels of Fe<sup>+++</sup> in Al<sub>2</sub>O<sub>3</sub>; *J.73A No. 2, 241-268 (1969). SP305-1.*

transition probabilities; Vanadium; Chromium; Cobalt; Forbidden transitions; Iron; Manganese; Nickel; *J. Phys. Chem. Ref. Data 2, No. 1, 85-120 (1973). SP305-6.*

transition probabilities; Volume exclusion; Linear polymers; Jarkov chains; Order-disorder transitions; Random variables; restricted chains; Theta point; *11646. SP305-2.*

transition probabilities; Wall-stabilized arc; Line strength; nickel-carbonyl; Ni I and Ni II; Oscillator strength; Relative measurements; *9573. SP305-1.*

transition probabilities; Wall-stabilized arc; Atomic; Infrared nes; Neutral argon; *11479. SP305-2.*

transition probabilities; Wall-stabilized arc; Arc plasma; Iron; lifetimes; Oscillator strength; *15411. SP305-7.*

transition probabilities; Wave functions; Ions; Oscillator strengths; Quantum mechanics; Spectroscopy; *16209. SP305-*

transition probabilities; Wavelength standards; Laboratory spectra; Molecular spectra; Solar spectrum; Standards, wavelength; *10588. SP305-1.*

transition probabilities; Wavelength standards; Cross sections; IAU Commission 14; International Astronomical Union; Spectroscopic data; *11796. SP305-2.*

transition probabilities for U I; Uranium spectrum; Lifetimes in I; Oscillator strengths for U I; *J. Res. 80A No. 1, 1-7 (1976). SP305-8.*

transition probabilities for U II; Uranium spectrum; Oscillator strengths for U II; *J. Res. 80A No. 3, 429-438 (1976). SP305-8.*

Transition probabilities in Fe I; Fe II; Iron; Oscillator strengths; Spectrum; Spectrum of neutral iron; *Monogr. 108. SP305-1.*

Transition probabilities of spectral lines; Wavelength standards; Standard wavelengths; *9952. SP305-1.*

Transition probabilities vs. energy values; Translational-vibrational energy transfer; Atom-diatom transitions; Data tables; Distorted wave calculations; Exact quantum mechanical calculations; Inelastic transition probabilities; *NBS-OSRDB-70-3 (AD705110). SP305-3.*

Transition probability; Absorption spectrum, band calculation, emission spectrum, K-spectra; Lithium; *11594. SP305-2.*

Transition probability; Ag I;  $f$ -value; Imprisonment; Lifetime; Mean life; Resonance radiation; Silver; *15120. SP305-7.*

Transition probability; Allowed; Atomic; Discrete; Forbidden; *SP320. Supplement 2. SP305-5.*

Transition probability; Allowed; Atomic; Discrete; Forbidden; *SP320. Suppl. 1. SP305-3.*

Transition probability; Allowed; Atomic; Discrete; Forbidden; *M278 Supplement. SP305-1.*

Transition probability; Arc; Atomic spectroscopy; Plasma; Stark broadening; Sulfur; *10209. SP305-1.*

Transition probability; Argon; Plasma; Spectroscopy; *10071. SP305-1.*

Transition probability; Atomic; Discrete; Forbidden; Permitted; *SP320. SP305-2.*

Transition probability; Atomic frequency standards; Cesium beam; Energy levels; Hydrogen maser; Hyperfine interaction; Rubidium gas cell; *TN399. SP305-3.*

Transition probability; Auger processes; Autoionization; Density of states; Ion-neutralization; *SP323, pp. 349-357. SP305-4.*

Transition probability; Auger processes; Autoionization; Density of states; Ion-neutralization; *J.74A No. 3, 433-441 (1970). SP305-2.*

Transition probability; Carbon monoxide;  $f$ -value; Nitrogen; *12799. SP305-4.*

Transition probability; CO<sup>+</sup>; CO<sub>2</sub><sup>+</sup>; Coincidence; Electron impact; Ions; Lifetime; Molecule; N<sub>2</sub><sup>+</sup>; Radiative; *15912. SP305-8.*

Transition probability; Comet; Electric-dipole transition; Excited states; NH; Spin-orbit coupling; *16502. SP305-8.*

Transition probability; Curve crossing; O(<sup>1</sup>D); O(<sup>1</sup>S); Quenching rate; Spin-orbit coupling; *15566. SP305-7.*

Transition probability; Density of states; Exciton; Many body effects; Phase shifts; Soft x-ray; *SP323, pp. 253-258. SP305-4.*

Transition probability; Density of states; Emission spectrum; Linear detection; Nickel; Oxide free; Paramagnetic; Soft x-ray; *10334. SP305-1.*

Transition probability; Density of states; Exciton; Many body effects; Phase shifts; Soft x-ray; *J.74A No. 2, 267-272 (1970). SP305-2.*

Transition probability; Einstein A coefficient; Hydroxyl; Radical; *9891. SP305-1.*

Transition probability; Frequency standard; Methane resonance; Molecular beam; Ramsey resonance; Saturated absorption; Stabilized laser; *13800. SP305-5.*

Transition probability; Gamma-ray energy; Half-life; Isomeric <sup>136</sup>Xe; Radioactivity; *14412. SP305-6.*

Transition probability; U I; Uranium; Delayed coincidence;  $f$  value; Imprisonment; Lifetime; Mean life; Resonance radiation; *15058. SP305-7.*

Transition probability; U I; Uranium; Atomic beam; Delayed coincidence; Imprisonment; Lifetime; Mean life; Resonance radiation; *16322. SP305-8.*

Transition probability; Ultraviolet lines of Fe I; Atomic spectra; Iron; Oscillator strengths; *J.70A4-409, 325-371 (1966). SP305.*

Transition probability; Vacuum ultraviolet; Arc emission; Oxygen; *12667. SP305-4.*

- Transition probability; Velocity average; Atomic beam; Frequency shift; Rabi spectrometer; Schrödinger equation; 10430. **SP305-1.**
- Transition probability energy; Aluminum; Density of states; L-emission band, M-emission band; Ni-Al system; Nickel; Soft x-ray spectroscopy; TiNi intermetallic compound; 10890. **SP305-2.**
- Transition radiation; Electron optics; 15760. **SP305-8.**
- Transition radii;  $^{14}\text{C}$ ; Electron scattering; E2 excitations; 13225. **SP305-5.**
- Transition radius; Correction factors; Coulomb effects; Electroexcitation; Low momentum transfer; Magnetic transitions; Model-independent evaluation; Phase shift analysis; 10910. **SP305-2.**
- Transition regime;  $^{60}\text{Co}$  gamma; Activation energy; Compensation; Epitaxial gallium arsenide; High energy neutron; Impurity conduction; Reciprocal Hall coefficient; 15575. **SP305-7.**
- Transition region; Asymptotic wings; Ion microfield; Line center; Line shape; 11131. **SP305-2.**
- Transition region-sun; Ultraviolet spectrum-sun; Chromosphere-sun; Coronal holes; Diffusion; 15717. **SP305-8.**
- Transition state for termination; Acetylene reaction with  $\text{O}_3$ ; Activation energy for oxidation; Chain lengths in oxidation; Elementary steps in oxidation; Epoxidation; Gas-phase oxidation; Kinetics; Liquid-phase oxidation; Mechanism; *SP357*, pp. 121-129. **SP305-4.**
- Transition strengths; Electron scattering; Inelastic;  $^{19}\text{F}$ ;  $^{40}\text{Ca}$ ; 13723. **SP305-5.**
- Transition strengths;  $3d4p$ ; Configurations  $3d^2$ ; Ti III; 11398. **SP305-2.**
- Transition temperature; Annealing; Magnetic field; Stoichiometry; Superconductivity; 14235. **SP305-6.**
- Transition temperature; Annealing temperature; Atoms; Stoichiometry; Superconducting; 15327. **SP305-7.**
- Transition temperature;  $(\text{Ba}_x\text{Sr}_{1-x})\text{TiO}_3$ ;  $(\text{Ca}_x\text{Sr}_{1-x})\text{TiO}_3$ ; Critical fields; Magnetic moment; Penetration depth; Semiconducting systems;  $\text{SrTiO}_3$ ; Superconducting; 10817. **SP305-1.**
- Transition temperature; Carbon resistance thermometry; Electrical resistance; Heat capacity; Indium; Magnetic susceptibility; Superconductivity; Thermometric fixed point; 12889. **SP305-4.**
- Transition temperature; Cerous magnesium nitrate; Curie-Weiss constant; Dipole-dipole interaction (pure); Entropy; Lattice sums; Magnetic susceptibility; 10264. **SP305-1.**
- Transition temperature; Critical field, fixed point; Iridium; 15339. **SP305-7.**
- Transition temperature; Dielectric function; Superconductor; Transition metal; 13532. **SP305-5.**
- Transition temperature; Energy gap equation; Semiconductors; Superconductor; 13531. **SP305-5.**
- Transition temperature; Transition widths; Cryogenics; Pure cadmium; Reproducibility; Superconductivity; Thermometric fixed point; 14530. **SP305-6.**
- Transition temperature; Triple point; Ethane; Heat capacity; Heat of fusion; Heat of transition; 16522. **SP305-8.**
- Transition temperature; Vaporization heat; Vaporization temperature; Fusion heat; Fusion temperature; Transition heat; 14205. **SP305-6.**
- Transition temperature maximum; Transition temperatures; Charge carrier density; Nb-doped  $\text{SrTiO}_3$ ; Superconductivity; 11421. **SP305-2.**
- Transition temperatures; Al $_5$  compounds; Atomic ordering; Critical magnetic field; Superconducting; Superconductivity; 14249. **SP305-6.**
- Transition temperatures; Charge carrier density; Nb-doped  $\text{SrTiO}_3$ ; Superconductivity; Transition temperature maximum; 11421. **SP305-2.**
- Transition temperatures; Critical magnetic field; Iridium; Superconductivity; 13872. **SP305-6.**
- Transition temperatures; Fixed points; SRM 767; Superconductivity; 15062. **SP305-7.**
- Transition temperatures; Semiconductors;  $\text{SrTiO}_3$ ; Superconductivity; 10381. **SP305-1.**
- Transition temperatures; Uniaxial compression; 0-1.8 kb stress; Anisotropic stress effect; Hydrostatic pressure; 17 doped  $\text{SrTiO}_3$ ; Reduced  $\text{SrTiO}_3$ ; Superconductivity; 117 **SP305-2.**
- Transition temperatures; Vanadium carbides; Band structure solids; Cryogenics; Superconductivity; 12266. **SP305-3.**
- Transition time; Mercury switch; Oscilloscope; Picoscope; Pulse; Random sampling; Risettime; Sampling; Time base; 13799. **SP305-5.**
- Transition time; Mercury switch; Oscilloscope; Picoscope; Pulse; Random sampling; Risettime; Sampling; 14262. **SP305-6.**
- Transition widths; Cryogenics; Pure cadmium; Reproducibility; Superconductivity; Thermometric fixed point; Transition temperature; 14530. **SP305-6.**
- Transition widths; Wire samples; Elements; Fixed point; Reproducibility; Superconductors; Thermometry; 125 **SP305-4.**
- Transition-metal behavior; Calcium; De Haas-van Alphen; Electronic density of states; Low-temperature specific heat; Phase diagram; *SP323*, pp. 57-61. **SP305-4.**
- Transition-metal chalcogenides; Trigonal-prismatic coordination; Dichalcogenides; Intercalation compounds; Layer structures; Modulated structures; Occupation waves; Selenide; Semiconductor-to-metal transitions; Structure transition; *SP364*, pp. 625-635. **SP305-4.**
- Transition-metal oxides; Adsorption; Electron spectroscopy; Ligand-field splitting; Surface excitons; Surface states; *SP305-133-138* (Nov. 1976). **SP305-8.**
- Transition-metal oxides; Alkaline earth oxides; N stoichiometry; Oxidation-reduction; Phase equilibria; 13 **SP305-5.**
- Transition-metal oxides; Ba/Co-oxide phases; Ba/Ni-oxides; Crystal structure; Phase equilibria; *SP364*, pp. 263. **SP305-4.**
- Transition-metal oxides; Defect states; *d*-electrons; Electrocatalysis; Surface states; Titanium dioxide; *SP305-125-131* (Nov. 1976). **SP305-8.**
- Transition-metal reactions; Ultraviolet spectrum;  $\text{Cl}_2$  reaction;  $\text{CoCl}_2$ ;  $\text{CrCl}_3$ ; Emission spectrum;  $\text{FeCl}_3$ ; Infrared spectrum; Matrix isolation;  $\text{MnCl}_2$ ; Molecular orbitals;  $\text{NiCl}_2$ ; 11 **SP305-2.**
- Transitions; Triple point; Dilatometry; Enthalpy; Entropy; Molecular; Low pressure; Phase diagram; Polytetrafluoroethylene; *J.72A No. 5*, 467-470 (1976). **SP305-1.**
- Transition-state theory; Chemical reactions; Collision theory; Hydrogen atoms; Hydrogen molecules; Indistinguishable particles; Nuclear spin; Rate coefficients; 16214. **SP305-8.**
- Transition-state theory; Chemical reactions; Chlorine molecules; Classical scattering matrix theory; Collision theory; Cross sections; Hydrogen atoms; Rate coefficients; Scattering theory; Trajectories; 16627. **SP305-8.**
- Translation system; Linguistic work; Mechanical translation system; Morphological classification; 9205. **SP305.**
- Translation vectors; Cerous magnesium nitrate; Crystal structure; *g*-factors; Ground state energy; Luttinger-Tisza method; 16512. **SP305-8.**
- Translational absorption; Absorption coefficient; Absorption mechanisms; Infrared; Liquid hydrogen; Orthohydrogen; Parahydrogen; 11504. **SP305-2.**
- Translational diffusion coefficient; Zimm theory; Bead-spring model; Block copolymers; Dilute polymer solutions; Limit viscosity number; Mandelkern-Flory-Scheraga equation; Molecular weight determination; Sedimentation coefficient; 16026. **SP305-8.**



translational dynamics; Acoustic phonons; Lattice sodium chloride; 15692. **SP305-7.**

translational-vibrational energy transfer; Atom-diatom transitions; Data tables; Distorted wave calculations; Exact quantum mechanical calculations; Inelastic transition probabilities; K matrix calculation; KWIC Index; Mass values; NBS-DRDB-70-3 (AD705110). **SP305-3.**

translucency; Transmittance; Vitrolite glass; Blurring effect; Edge loss; Error analysis; Flux loss; Plastics; Reflectance; Scattering; Spectrophotometry; TN594-12. **SP305-8.**

transmissibility; Vacuum; Air; Antiresonances; Cantilever beam; Damping; Mass-loading; Resonances; Tip rotary inertia; 11092. **SP305-2.**

transmission; Analysis; Cables; Coaxial; Skin effect; Time-domain; Transient; 13034. **SP305-4.**

transmission; Cable assembly; Coaxial cable; Insertion loss; Mobile antenna; Mobile transceiver; 16294. **SP305-8.**

transmission; Coefficient algorithms; Expansions; Inverse plane transform; Reflectometry; Skin effect; Step response; System function; J74B No. 3, 155-173 (1970). **SP305-2.**

transmission; Crystal growth; CsCuCl<sub>2</sub>; Electrooptic effect; Index of refraction; Nonlinear optics; 12032. **SP305-3.**

transmission; Interferometry; Kösters prism; Optical films; Phase shift; Polarized light; Reflection; Thin films; 14495. **SP305-6.**

transmission; Superconductive; 11408. **SP305-2.**

transmission; Transport calculation; Angular distribution; Electrons; Energy spectra; Reflection; 14383. **SP305-6.**

transmission; Transport calculation; Angular distribution; Electrons; Energy spectra; Reflection; NBSIR 74-457. **SP305-6.**

transmission; Transportation; Utilities; Conservation; Conversion; Cost; Cryogenics; Economics; Embrittlement; Energy; Hydrogen; Industrial; Instrumentation; Liquefaction; Literature; Materials; Production; Solar; Storage; SP419. **SP305-7.**

transmission; Ultrasound; Velocity; Attenuation; Breast tissue; Roadband; High resolution; Imaging; Large aperture; Pathology; Pellicle; Phase-contrast; SP453, pp. 121-133 (Oct. 1976). **SP305-8.**

transmission; Velocity; Attenuation; Phase; Swept frequency; Time delay spectrometry; Tissue; SP453, pp. 81-95 (Oct. 1976). **SP305-8.**

transmission; 0.694  $\mu\text{m}$ ; Back-scattering; Precatastrophic damage; Pulse dynamics; Reflection; Ruby laser; Surface damage; Temporal pulse monitoring; SP414, pp. 179-189. **SP305-6.**

transmission coefficient; Coherent radiation; Josephson junction; Microstrip; Quality factor; 14919. **SP305-7.**

transmission coefficient; Defects in harmonic crystal; Functional equation; Many-body problem; Multiple scattering; Statistical physics; 12375. **SP305-3.**

transmission coefficient; Waveguide standards; 2-port standards; Automatic measurement; Coaxial standards; Network parameters; Reflection coefficient; Scattering coefficients; 14739. **SP305-7.**

transmission curves; Beta absorption; Beta-particle energy; Beta-particle transmission; Half-thickness; Infinitely-thick sources; Low-level; Synthetic beta sources; 10421. **SP305-1.**

transmission electron microscopy; Abrasion; Aluminum oxide; Dislocations; Ion-bombardment; Microtwins; Scanning electron microscopy; Subsurface damage; SP348, pp. 333-339. **SP305-4.**

transmission electron microscopy; Aluminum oxide; Dislocations; Mechanical polishing and grinding; Microtwins; 12952. **SP305-4.**

transmission electron microscopy; Alloys; Dislocation; Dislocation nodes; Stacking faults; 9804. **SP305-1.**

transmission electron microscopy; Alumina; Crack growth; Critical stress intensity factor; Fracture; Plastic deformation; Pyrophyre; Strength; 13853. **SP305-6.**

Transmission electron microscopy; Auger electron spectroscopy; Ion beam profiling; Laser-induced damage; Lithium niobate; Potassium chloride; Surface acoustic waves; Surface characterization; SP414, pp. 135-140. **SP305-6.**

Transmission electron microscopy; Microstructures; Titanium; 15777. **SP305-8.**

Transmission electron microscopy; Twinning; Abrasion; Alumina; Annealing; Dislocations; Electron microscopy; Indentation; Plastic deformation; Surface regions; 12498. **SP305-4.**

Transmission electron microscopy; Twinning; Aluminum oxide; Microhardness; Plastic deformation; Slip; 15825. **SP305-8.**

Transmission electron microscopy;  $\delta$ ; L<sub>1</sub>; Metastable phase; Ordering reaction; Satellites; Spinodal decomposition; Superlattice reflections; 15840. **SP305-8.**

Transmission electron microscopy; Vapor deposition; Cadmium telluride; Growth kinetics; Mechanical properties; Microstructure; Stoichiometry; SP462, pp. 100-118 (Dec. 1976). **SP305-8.**

Transmission line; Characteristic impedance; Coupler; Current; Impedance, input impedance; Mooring Line Data Line; Propagation characteristics; NBSIR 73-341. **SP305-6.**

Transmission line; Cryostat; Laminate; Photoetching; Thermal grounding; 13278. **SP305-5.**

Transmission line; Digital computer program; Distributed networks; Inverse Laplace Transformation; Lumped networks; Rosenbrock cursor; Step response; J73B No. 2, 163-176 (1969). **SP305-1.**

Transmission line; Waveguide; Air lines; Coaxial; Impedance; Measurements; Standards; 9809. **SP305-1.**

Transmission lines; Cables; Coaxial; Cryogenic; Miniature; Pulse delay; Superconducting; Telecommunications; 13338. **SP305-5.**

Transmission lines; Cables; Coaxial; Pulse response; Transient analysis; 13378. **SP305-5.**

Transmission lines; Coaxial cable; Low-dielectric-loss coaxial lines; Low temperature; 11209. **SP305-2.**

Transmission lines; Oscilloscopes; Pulse; Pulse generators; Pulse measurement; 15304. **SP305-7.**

Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM Metrology; Field strength; Impedance; Noise; Phase; Power; Pulsed quantities; Squids; NBSIR 74-395. **SP305-7.**

Transmission lines; Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM metrology; Field strength; Impedance; Laser parameters noise; Optical electronics; Phase; Power; Pulsed quantities; Squids; NBSIR 75-818. **SP305-7.**

Transmission loss; Absorption coefficient; Acoustics; Airborne sound insulation index; Frequency; Noise reduction; 13732. **SP305-5.**

Transmission loss; Airborne sound transmission; Architectural acoustics; Building acoustics; Sound reduction index; Sound transmission loss; 15708. **SP305-8.**

Transmission measurements; Aluminum (Al); Beryllium (Be); Electronic density of states; Electron synchrotron light; K spectra; Light metals; Lithium (Li); L spectra; Magnesium (Mg); Photoabsorption; Sodium (Na); SP323, pp. 275-277. **SP305-4.**

Transmission measurements; 190-m flight path; Background; JAERI linac; Natural U; Resonance parameters  $\Gamma_n$  up to 5 keV; Three thicknesses; SP425, pp. 738-741. **SP305-7.**

Transmission microscopy; Aluminum alloys; Hot saline water corrosion; Oxide films; Precipitates; 12315. **SP305-3.**

Transmission of energy analyzers; Absolute electron energy; Calculation of scattering geometries; Differential electron scattering cross section; Doppler broadening; Elastic electron scattering cross sections; Electron multiplier; Faraday cup; 11034. **SP305-2.**

- Transmission of x-rays; X-ray diffraction; Divergent x-ray beams; Kossel; Kossel sample preparation; Photographic contrast; 9521. **SP305-5.**
- Transmission probability; Vacuum calibration; Vacuum measurements; Clausius factors; Free molecular flow; Precision ionization gauges; Stable vacuum systems; 13143. **SP305-5.**
- Transmission radiography; X-ray image signals; X-ray scatter; Image contrast; Monoenergetic x-ray beams; Optimum radiographic systems; 15276. **SP305-7.**
- Transmission resonance; Adsorption; Electron emission; Reflection resonance; 11625. **SP305-2.**
- Transmission resonators; Automatic  $Q$  measurement; Frequency-lock method;  $Q$  measurement; Reflection resonators; 13309. **SP305-5.**
- Transmission topography; X-ray diffraction topography; Crystal perfection; Czochralski growth; Domain walls; Magnetic domains; Nickel single crystals; Surface reflection topography; 16503. **SP305-8.**
- Transmission-line voltages; Voltage measurements; Current measurement; Measurement voltages; Microwave current; Microwave voltages; *J72C No. 1, 61-79 (1968).* **SP305-1.**
- Transmissivity equalization; Vibration; Acceleration response; Evaluation; Fatigue life; Lumped parameter system; Mechanical impedance; Random vibration; Test; Transfer impedance; *SP336, pp. 509-524.* **SP305-3.**
- Transmittance; Absorbance; Automation of accurate spectrophotometer; Instrumentation, spectrophotometric; Spectrophotometry, high accuracy; Standard reference material in spectrophotometry; *SP378, pp. 31-51.* **SP305-5.**
- Transmittance; Absorbance; Automation of accurate spectrophotometer; Instrumentation, spectrophotometric; Spectrophotometry, high accuracy; Standard reference material in spectrophotometry; *J76A No. 5, 405-425 (1972).* **SP305-4.**
- Transmittance; Accuracy; Appearance; Colorimetry; Definition of spectrophotometry; Error analysis; Photometry; Radiation transfer; Reflectance; Scattering; Spectrophotometry; *TN594-9.* **SP305-6.**
- Transmittance; Beam geometry; High accuracy; Optical design; Spectrophotometer; Systematic errors; *13720.* **SP305-5.**
- Transmittance; Beam non-uniformity; Circular entrance and exit apertures; High accuracy spectrophotometer; Linearity; Parabolic mirrors; Stray radiant energy; *TN729.* **SP305-4.**
- Transmittance; Bibliography; Emission; Heat transfer; Measurement techniques; Periodic surfaces; Polarization; Random surfaces; Reflectance; Reflectance of coherent radiation; Scattering; Scattering theory; Surface roughness; *J. Res. 80A No. 2, 207-220 (1976).* **SP305-8.**
- Transmittance; Chemical composition; Density; Glasses; Hardness; Laser; Optical homogeneity; Photoelasticity; Refractive index; Thermal conductivity; Thermo-optic properties; *J75A No. 3, 163-174 (1971).* **SP305-3.**
- Transmittance; Firefighters; Protective clothing; Reflectance; Spectral radiation; *14346.* **SP305-6.**
- Transmittance; High accuracy spectrophotometry; Photoelectric linearity; Reflectance; *SP378, pp. 1-29.* **SP305-5.**
- Transmittance; High accuracy spectrophotometry; Photoelectric linearity; Reflectance; *J76A No. 5, 375-403 (1972).* **SP305-4.**
- Transmittance; Luminance; Luminous flux; Luminous intensity; Photometric brightness; Photometry; Reflectance; 9549. **SP305-1.**
- Transmittance; Transmittance factor; Absorbance; Contrast; Modulation; Notation; Optical density; Propagance; Reflectance; Reflectance factor; Symbols; 9373. **SP305.**
- Transmittance; Transmittance factor; Modulation; Notation; Optical density; Propagance; Reflectance; Reflectance factor; Symbols; *15564.* **SP305-7.**
- Transmittance; Ultraviolet; X-rays; Absorption; Films; Spectra; Tin; 9639. **SP305-1.**
- Transmittance; Vitrolite glass; Blurring effect; Edge loss; Et analysis; Flux loss; Plastics; Reflectance; Scattering; Spectrophotometry; Translucency; *TN594-12.* **SP305-8.**
- Transmittance (absorbance) accuracy; Wavelength accuracy in spectrophotometry; Glass filters; Spectral band pass; Spectrophotometry; Standard reference materials; Stray radiation; Testing of spectrophotometers; *SP260-51.* **SP305-7.**
- Transmittance characteristics; Ultraviolet-visible filter; Evaporated metal-on-quartz; Filters, transmittance; Neu filters; Standard reference materials; *J. Res. 80A No. 4, 6641 (1976).* **SP305-8.**
- Transmittance, correction; Correction for reflections; Reflections, multiple; Spectrophotometry, high accuracy; Systematic bias in spectrophotometry; *J77A No. 6, 699.* (1973). **SP305-5.**
- Transmittance factor; Absorbance; Contrast; Modulation; Notation; Optical density; Propagance; Reflectance; Reflectance factor; Symbols; Transmittance; 9373. **SP305.**
- Transmittance factor; Modulation; Notation; Optical density; Propagance; Reflectance; Reflectance factor; Symbols; Transmittance; *15564.* **SP305-7.**
- Transmittance of vehicle glazing materials; Automobile compartment temperatures; Automobile windshields; Glass materials; *NBSIR 74-533.* **SP305-6.**
- Transmittance standards; Accuracy; Phase retardation plate; Polarization attenuators; Sheet polarizers; Spectrophotometry; *12660.* **SP305-4.**
- Transmittance variation; Vehicle glazing materials; Automobile paint colors; Automobile windshield color; Photometric transmission; Spectral reflectance; Spectral transmittance; *NBSIR 74-533.* **SP305-6.**
- Transmitted pulse; Waveform distortion; ZnSe; KCl; Pulsed  $\text{CO}_2$  TEA laser damage; *SP435, pp. 107-117 (1976).* **SP305-8.**
- Transmitted pulse cutoff; Variable pulse duration; Alkaline earths; Bulk damage; Longitudinal mode control; Pulsed  $\mu\text{m}$  laser damage; RAP materials; *SP435, pp. 118-125 (1976).* **SP305-8.**
- Transmitter; Audiofrequency modulation; Communication; Electromagnetic compatibility; Law enforcement; Personal transmitter; Portable transmitter; Radio frequency carrier; *16285.* **SP305-8.**
- Transmitter; Base station transmitter; Communications; FM transmitter; FM transmitter; Law enforcement; *16285.* **SP305-8.**
- Transmitter; Communications; Law enforcement; Mobile telephone; Performance standard; Transceiver; *14922.* **SP305-8.**
- Transmitter; Wiretapping; Body worn antenna; Bugging; Eavesdropping; Electronic surveillance; Microphones; Recording; Tape recorder; Telephone; *16237.* **SP305-8.**
- Transmitting loop antenna; Loop-antenna field strength; Magnetic field-strength standard; Mutual inductance of circular filaments; Near-zone magnetic field; *J71C-4-319-326 (1967).* **SP305.**
- Transparent electrode; Adsorption; Anodic oxidation; Electrochromism; Semiconductor electrode; Tin oxide electrode; *SP455, pp. 175-181 (Nov. 1976).* **SP305-8.**
- Transparent electrophotographic material; Add-on films; Information storage; Microforms; *NBSIR 76-991.* **SP305-8.**
- Transparent materials; Absorption coefficients; Cylindrical configurations; Gas pressure; Heat transfer; Photoacoustic; *15936.* **SP305-8.**
- Transparent materials; Barothermal; Gas pressure; Heat conduction; Heat transfer; Optical absorption coefficients; *15936.* **SP305-8.**
- Transparent materials; Bulk absorption coefficients; Force; Amplitudes; Gas pressure; Heat transfer; Phase shift; Photoacoustic; Surface absorption coefficients; *16237.* **SP305-8.**

parent stimulation; Unobtrusive monitoring; Computer  
 al network; Human characteristics; Interactive infor-  
 on retrieval; Man-computer interface; *TN732. SP305-4.*  
 ration; Vapor density; Glass; Incongruent vaporization;  
 4. **SP305-8.**  
 ration equilibria; Absorption spectrometry; Calorimetry;  
 spectrometry; Propulsion applications; Thermodynamic  
 urements; *12395. SP305-4.*  
 ration measurements; Aluminum fluoride; Aluminum  
 fluorides; Equilibrium constant; Hydrogen fluoride; Sta-  
 limits; *J.77A No. 3, 341-342 (1973). SP305-5.*  
 utonium; Waste management; Yield; Actinide burnup;  
 section sets; Neutron spectrum; *SP425, pp. 214-217.*  
**5-7.**  
 ration; Containerization; Maritime, cargo; Mathemati-  
 models; Optimal locations; Systems analysis; *TN530.*  
**5-2.**  
 rt; Angular distributions; Energy spectrum; Gamma  
 invariant imbedding; Shielding; *10786. SP305-1.*  
 rt; Benchmark; Cross section; Eigenvalue; Monte Carlo;  
 group; Reactor; Resonance; Slowing-down; Stochastic;  
 5, pp. 451-454. **SP305-7.**  
 rt; Diffraction; Inelastic; Interaction; Materials;  
 on; Properties; Reaction; Scattering; Structure; *10553.*  
**5-1.**  
 rt; Magnetophonon effect; Seebeck effect; Semiconduc-  
 4212. **SP305-6.**  
 rt calculation; Angular distribution; Electrons; Energy  
 a; Reflection; Transmission; *14383. SP305-6.*  
 rt calculation; Angular distribution; Electrons; Energy  
 a; Reflection; Transmission; *NBSIR 74-457. SP305-6.*  
 rt calculation; Atmosphere; Auroral electrons; Balloon  
 ment; Bremsstrahlung; Energy spectrum; *13692.*  
**4-5.**  
 rt calculations; Cross section sensitivity; Gamma ray;  
 on; *SP425, pp. 431-435. SP305-7.*  
 rt calculations; Depth dose; Dosimetry; Ionization  
 ers; Pions; Radiobiology; *13190. SP305-5.*  
 rt calculations; Electrons; Energy deposition;  
 dosimetry; Monte Carlo; Multiple scattering; *17179.*  
**5-2.**  
 rt coefficient; Cluster expansion method; Dense gases;  
 tion operator method; Self diffusion coefficient; Time  
 ation function; *10931. SP305-2.*  
 rt coefficient; Composite material; Dielectric constant;  
 ion constant; Electrical conductivity; Eutectic; Heat  
 ctivity; Magnetic permeability; *10757. SP305-1.*  
 rt coefficient; Wave transmission in random media;  
 ionic crystal; Heat transport; Isotopic disorder; Kapitza  
 nce; Scattering theory in one-dimension; Statistical  
 nics; Thermal conduction; Thermal transport; *12808.*  
**4.**  
 rt coefficients; Correlations; M-6; Kihara; Exp: 6;  
 Potential functions; Dilute gases; Neon; Krypton;  
*TN352. SP305.*  
 rt coefficients; Isothermal susceptibility; Nonlinear  
 se theory; Nonlinear transport theory; Response func-  
 9987. **SP305-1.**  
 rt coefficients; Lennard-Jones; Kihara; Exp: 6; Morse  
 al functions; Eucken correction; Correlation; Dilute  
 Nitrogen; Oxygen; *TN350. SP305.*  
 rt coefficients; Triple collisions; Viscosity; Dense gases;  
 disks; Rigid spheres; Thermal conductivity; *9399.*  
**5-2.**  
 rt coefficients; Two phase materials; Upper and lower  
 s; Composite materials; Effective conductivity; *10884.*  
**2.**  
 rt coefficients; Two-component flow; Two-phase flow;  
 i flow; Critical flow; Droplet flow; Liquid film flow;  
**SP305-4.**

Transport coefficients; Zwanzig-Mori formalism; Hydrodynamic  
 regime; Ideal gas memory function; Limit of stability;  
 Metastable fluid states; Nonhydrodynamic regime; Relaxation  
 time; *16601. SP305-8.*  
 Transport data; Diffuse reflectivity;  $\text{LaCrO}_3$ ; Photoconductivity;  
 Photoexcitation; Photoluminescence; *14084. SP305-6.*  
 Transport (effects); Cold neutrons;  $\text{D}_2\text{O}(\text{ice})$ ; (leakage) spectra;  
 Neutron; (neutron) flux; (neutron) moderation; (neutron)  
 spectra; Neutron temperature; (neutron) thermalization;  
*10042. SP305-1.*  
 Transport equation; A-priori bound; Convergence; Finite dif-  
 ferences; Hyperbolic equation; Positive mapping; Semi-dis-  
 crete approximations; *12650. SP305-4.*  
 Transport first density corrections; Excess transport property;  
 Modified Enskog theory; Prediction of transport data; Ther-  
 mal conductivity; *13234. SP305-5.*  
 Transport in solids; Electrochemistry; Gibbs-Duhem; Local  
 equilibrium; Nonequilibrium thermodynamics; Oxidation of  
 metals; Solid state diffusion; *14286. SP305-6.*  
 Transport measurements; Electronic band structure; Oxides;  
 Semiconductors; Strontium titanate; Transition metal com-  
 pounds; *11623. SP305-2.*  
 Transport phenomena; Viscous flow; Critical point theories; Im-  
 miscibility; Phase transitions; Structural relaxation; *J.75A No.*  
*3, 175-184 (1971). SP305-3.*  
 Transport phenomena; Viscous flow; Continuous systems; Dif-  
 fusion flow; Discontinuous systems; Membranes;  
 Nonequilibrium thermodynamics; Porous media; Thermal  
 transpiration; *10362. SP305-1.*  
 Transport problems; Diffusion theory; Exponential integral; In-  
 definite integrals; Quantum mechanics; Radiative equilibrium;  
 Special functions; *J.73B No. 3, 191-210 (1969). SP305-1.*  
 Transport processes; Acetylene-oxygen flame; Benzene flames;  
 Bunsen flames; Carbon formation; Carbon limit; Concentra-  
 tion profiles; Cyanogen-oxygen flame; Flame front curvature;  
 Hydrocarbon radicals; Hydrogen diffusion; Oxidation reac-  
 tions; *SP357, pp. 143-150. SP305-4.*  
 Transport processes; Author indexes; Bibliography; Cryogenics;  
 Liquefaction; Metrology; Properties of fluids; Properties of  
 solids; Subject indexes; Superconductivity; *TN639. SP305-5.*  
 Transport processes; Chemical kinetics; Cross sections; Rate  
 theory; Scattering theory; Trajectory calculations; *10604.*  
**SP305-1.**  
 Transport processes; Critical phenomena in: Binary alloys; Bi-  
 nary liquid mixture; Critical opalescence; Gas liquid transi-  
 tion; Laser light scattering; Magnets; Superfluids; *10602.*  
**SP305-1.**  
 Transport processes; Crystal; Crystal growth; Crystallization;  
 Growth mechanisms; Morphological stability; Nucleation;  
 Phase changes; *11918. SP305-3.*  
 Transport properties; Air; Bibliography; Equation of state; Low  
 temperature; Mechanical properties; Thermodynamic prop-  
 erties; *TN383. SP305-2.*  
 Transport properties; Aluminum alloy; Cryogenics; Electrical  
 resistivity; Lorenz ratio; Nickel alloys; Seebeck effect; Ther-  
 mal conductivity; Titanium alloy; *J.75A No. 4, 269-277*  
*(1971). SP305-3.*  
 Transport properties; Argon; Kinetic theory; Phase studies;  
 Potential functions; Special functions; Thermodynamics;  
*9767. SP305-1.*  
 Transport properties; BBGKY hierarchy; Bogolyubov's func-  
 tional assumption; Chapman-Enskog method; Dense gases;  
*9756. SP305-1.*  
 Transport properties; Bibliography; Equation of state; Low tem-  
 perature; Mechanical properties; Methane; Thermodynamic  
 properties; *TN367. SP305-1.*  
 Transport properties; Binary gas mixtures; Critically evaluated  
 data; Diffusion; Diffusion coefficients; Gases; *J. Phys. Chem.*  
*Ref. Data 1, No. 1, 3-118 (1972). SP305-6.*

- Transport properties; Carbon dioxide; Critical phenomena; Steam; Thermal conductivity; *13460. SP305-5.*
- Transport properties; Conductivity; Critically evaluated data; Data compilation; Elements; Reference data; Thermal conductivity; *J. Phys. Chem. Ref. Data* 1, No. 2, 279-421 (1972). **SP305-6.**
- Transport properties; Correlation; Equilibrium properties; Experimental data; Intermolecular potential function; Theory; *TN360. SP305.*
- Transport properties; Correlation; Equation of state; Excess function; Hydrogen; Interpolation methods; Least squares; Methane; Thermodynamic properties; *15731. SP305-8.*
- Transport properties; Cryogenics; Electrical resistivity; Iron; Lorenz ratio; Seebeck effect; Thermal conductivity; *12601. SP305-4.*
- Transport properties; Cryogenics; Electrical resistivity; Electrolytic iron; Lorenz ratio; Seebeck effect; Thermal conductivity; *SP260-31. SP305-3.*
- Transport properties; Cryogenics; Electrical resistivity; Equipment; Error analysis; Iron; Lorenz ratio; Seebeck effect; Thermal conductivity; *J.74A No. 5, 673-690 (1970). SP305-2.*
- Transport properties; Current autocorrelations; Nonlocal effects; Noninstantaneous effects; Nonlinear effects; Statistical mechanical theory; *12668. SP305-4.*
- Transport properties; Data center; Data compilation; Data evaluation; Energy program, thermodynamics; *15512. SP305-7.*
- Transport properties; Disordered one-dimensional crystal; Multiple scattering; Statistical physics; Thermal conductivity; *12376. SP305-3.*
- Transport properties; Dispersion coefficients; M-6-8 potential; Parameter selection; Second virial coefficients; *TN628. SP305-5.*
- Transport properties; Einstein function; Electrical resistivity; Grineisen function; Solid state physics; *J.74B No. 3, 175-182 (1970). SP305-2.*
- Transport properties; Equilibrium properties; Experimental data; Intermolecular potential function; Simultaneous correlation; Theory; *11021. SP305-2.*
- Transport properties; Glass transition; Heat transfer; Hevea rubber; Thermal conductivity; Thermophysical properties; *14591. SP305-6.*
- Transport properties; Heat transfer; Thermal conductivity; Thermal diffusivity; Thermophysical properties; Transient techniques; *14251. SP305-6.*
- Transport properties; Triple collisions; Viscosity; Dense gases; Rigid spheres; Thermal conductivity; *9400. SP305.*
- Transport properties; Triple collisions; Viscosity; Dense gases; Diffusion; Rigid disks; Rigid spheres; Thermal conductivity; *10709. SP305-1.*
- Transport properties; Tritium; Vapor pressure; Compilation; Density; Deuterium; Electrical properties; Enthalpy; Entropy; Fixed points; Hydrogen; Mechanical properties; Optical properties; Specific heat; Thermophysical properties; *TN641. SP305-5.*
- Transport properties; Tungsten; Cryogenics; Electrical resistivity; Lorenz ratio; Seebeck effect; Standard reference material; Thermal conductivity; *NBSIR 73-351. SP305-6.*
- Transport properties; Tungsten (W); Chromium; Electronic density of states; Iridium; Low-temperature specific heat; Magnetic susceptibility; Molybdenum; Niobium; Palladium (Pd); Platinum; Rhenium; Rhodium; *SP323, pp. 685-690. SP305-4.*
- Transport properties; Tunneling; Antimony-doped silicon; Arsenic-doped silicon (As doped Si); Band absorption; Band tailing; Depletion layer barrier tunneling; Electronic density of states; Esaki diode; Gallium-arsenide (GaAs); *SP323, pp. 693-712. SP305-4.*
- Transport properties; Tunneling; Band structure; Disordered systems; Electronic density of states; Ion neutral Knight shift; Magnetic susceptibility; Many-body effect; Photoemission; Soft x-ray; Specificity; *SP323. SP305-4.*
- Transport properties; Validity range; Viscosity; Dilute limit; Low pressure; Mean-free-path; *10520. SP305-5.*
- Transport properties; Vaporization; Viscosity; Diffusion; Thermal conductivity; Magnetohydrodynamics (MHD); equilibria; *16321. SP305-8.*
- Transport properties; Virial coefficients; Atoms; Compressibility; Heat of sublimation; Molecules; Potential function; Empirical and semi-empirical; *TN246. SP305.*
- Transport properties; Viscosity; Argon; Dense gases; Nitrogen; *12540. SP305-4.*
- Transport properties; Viscosity; Argon; Barker-Henderson perturbation theory; Modified Enskog theory; Thermal conductivity; *14775. SP305-7.*
- Transport properties; Viscosity; Binary liquids; Phenomena; Dense gases; Phase transitions; Thermal conductivity; *13134. SP305-5.*
- Transport properties; Viscosity; Collision integrals; Diffusion; Potential; Thermal conductivity; Thermal diffusion; *No. 4, 359-424 (1968). SP305-1.*
- Transport properties; Viscosity; Collision integrals; Diffusion; Potential; Thermal conductivity; Thermal diffusion; *NBS47. SP305-6.*
- Transport properties; Viscosity; Compressed gases; Thermal conductivity; *11119. SP305-2.*
- Transport properties; Viscosity; Density dependence; State; Simple fluids; Temperature dependence; Thermal conductivity; *11879. SP305-3.*
- Transport properties data; Critically evaluated data; Ethylene; Thermodynamic properties data; *NBSIR 73-305-7.*
- Transport property; Viscosity coefficient; Xenon; Argon; relation; Critical data evaluation; Critical point; Data; and liquid; Excess transport property functions; Nitrogen; Oxygen; Tables; *J. Phys. Chem. Ref. Data* 4, 979-1018 (1974). **SP305-6.**
- Transport species; Boron; Electric discharge; Germanium; fluorides; Reactive intermediates; Silicon; Time-resolved mass spectrometry; *10853. SP305-1.*
- Transport standard; Wattour meter; Electric energy; Uncertainty; Electric power; Measurement assurance; *TN930. SP305-8.*
- Transport systems; Systems analysis; State of the art; cost analysis; Transportation economics; *TN294. SP305-5.*
- Transport theory; Acoustoelectric gain; Hot electrons; antimonide; Magnetoresistance; Semiconductors; *SP305-4.*
- Transport theory; Aluminum transmission; Bremsstrahlung; Electrons; Monte Carlo; Penetration; Thick target; *11570. SP305-2.*
- Transport theory; Boltzmann equation; Magnetoresistance; Semiconductors; *13140. SP305-5.*
- Transport theory; Boltzmann equation; Magnetophonon; Semiconductors; *12918. SP305-4.*
- Transport theory; Boltzmann relaxation equation; Boltzmann transport equation; Relaxation time approximation; *SP305-2.*
- Transport theory; InSb; Magnetophonon; Magnetoresistance; Semiconductors; *12933. SP305-4.*
- Transport theory; Magnetophonon effect; Semiconductors; *13512. SP305-5.*
- Transport theory; Magnetophonon effect; Magnetoresistance; Semiconductors; *TN614. SP305-4.*
- Transport theory; Magnetophonon effect; Semiconductors; *16643. SP305-8.*



- transport theory; Two-layer slabs; Dose transmission; Gamma rays; Invariant imbedding; Penetration; *10787. SP305-1.*
- transport theory; Wall effects; Absorbed dose distributions; Electrons, delta rays and beta particles; Event-size; Microdosimetry; *14703. SP305-6.*
- transportable; User-oriented computing system; Accuracy; Algorithms; ANSI FORTRAN; Documentation; Error checking; Machine independent; OMNITAB II operating system subprograms; OMNITAB II source listing; Programming techniques; *SP339. SP305-3.*
- transportable computer programs; ANSI FORTRAN; Double precision; General-purpose computer program; Implementation of OMNITAB II; Labeled common; Machine independent; OMNITAB II; Overlay; Segmentation; System parameters; *TN550. SP305-2.*
- transportable ten picofarad capacitor; Unit of capacitance; Volume dependence; Capacitance standards; Fused silica electric; Picofarad capacitor; Shock sensitivity; Stability of value; Ten picofarad capacitor; *9653. SP305-1.*
- transportation; Agriculture; Compressed gases; Conservation; Cryogenics; Education; Health; National goals; Space; *10842. SP305-1.*
- transportation; Agriculture; Compressed gases; Conservation; Cryogenics; Education; Health; National goals; Space; *11306. SP305-2.*
- transportation; Agriculture; Compressed gases; Conservation; Cryogenics; Education; Health; National goals; Space; *11255. SP305-2.*
- transportation; Algorithm; Graph; Network; Optimization; Shortest-path; *10552. SP305-1.*
- transportation; Algorithm; Least cost; Traffic allocation; *J73B p. 2, 91-118 (1969). SP305-1.*
- transportation; Conservation; Cryoelectronics; Cryogenics; Cryopumping; Helium; Liquefaction; Magnets; Purification; Refrigeration; Safety; Storage; Thermodynamic properties; *Monogr. 111. SP305-1.*
- transportation; Contingency plans; Electricity; Energy conservation; Heating fuels; Humidity control; *NBSIR 74-539. SP305-6.*
- transportation; Levitation; Magnetic suspension; Materials fatigue data; Refrigeration; Superconducting magnets; *N635. SP305-5.*
- transportation; Levitation; Magnetic suspension; Materials fatigue data; Refrigeration; Superconducting magnets; *15182. SP305-7.*
- transportation; Transportation problem; Linear programming; Network flows; Single commodity; *14790. SP305-7.*
- transportation; Transportation technology; Urban transportation; Future transportation; Regional transportation; Technology; *10342. SP305-1.*
- transportation; Urban design; Visual responses; Environmental design; Human factors; Interdisciplinary study; Relative motion; *11318. SP305-2.*
- transportation; Urban transportation; Fatigue life; Magnetic properties; Materials; Refrigeration; Superconducting magnets; Suspension; *13954. SP305-6.*
- transportation; Urban transportation; Carpool matching; Carpools; Computer programs; *NBSIR 74-633. SP305-7.*
- transportation; Urethane; Flame spread; Flammability; Full-scale fire tests; Laboratory fire tests; Metrorail cars; Smoke; *NBSIR 75-971. SP305-8.*
- transportation; Utilities; Conservation; Conversion; Cost; Cryogenics; Economics; Embrittlement; Energy; Hydrogen; Industrial; Instrumentation; Liquefaction; Literature; Materials; Production; Solar; Storage; Transmission; *SP419. SP305-*
- transportation; Vehicle inspection; Airport pavements; Bridge inspection; Neutron testing; Pipeline inspection; Railroad inspection; *15213. SP305-7.*
- Transportation; Vibration; Wood-frame; Deflection; Housing; Laboratory; Module; Racking; Stiffness; Strength; Structural tests; Sustained load; *13389. SP305-5.*
- Transportation; Weber problem, mathematical programming; CES; Economics; Leontief; Location theory; Plant location; Production functions; *J78B No. 2, 79-94 (1974). SP305-6.*
- Transportation economics; Transport systems; Systems analysis; State of the art; Benefit-cost analysis; *TN294. SP305.*
- Transportation network analysis; Algorithms; Fire station location; Heuristics; Location-allocation models; Location analysis; Resource allocation analysis; *TN774. SP305-5.*
- Transportation noise; Acoustics; Automobile; Noise (sound); Tire noise; *13807. SP305-6.*
- Transportation noise; Acoustics; Noise (sound); Tire noise; *13727. SP305-5.*
- Transportation noise; Acoustics; Noise (sound); Tire noise; *14650. SP305-6.*
- Transportation noise; Acoustics; Noise (sound); Tire noise; *15206. SP305-7.*
- Transportation noise; Acoustics; Automobile; Noise (sound); Tire noise; *15312. SP305-7.*
- Transportation noise; Truck; Acoustics; Noise measurement; Noise (sound); Tire noise; *15792. SP305-8.*
- Transportation noise; Truck; Acoustics; Noise measurement; Noise (sound); Tire noise; *16370. SP305-8.*
- Transportation noise; Truck; Acoustics; Environmental conditions; Noise measurement; Noise (sound); *NBSIR 76-1138. SP305-8.*
- Transportation noise; Truck; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tire noise; *15002. SP305-7.*
- Transportation noise; Trucks; Acoustics; Noise measurement; Noise (sound); Tire noise; *14719. SP305-6.*
- Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tires; *12329. SP305-3.*
- Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tire noise; *14873. SP305-7.*
- Transportation noise; Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tire noise; *14874. SP305-7.*
- Transportation of hazardous material; Accidents; Hazardous material; Storage of hazardous material; *NBSIR 73-412. SP305-6.*
- Transportation planning; Bus-on-freeway operations; Choice and captive riders; Cost allocation formula; Incremental costs and revenues; Reverse commute bus service; Shirley Highway; *NBSIR 74-624. SP305-7.*
- Transportation planning; Bus-on-freeway operations; Commuter surveys; Mode choice decisions; Park-and-ride; Shirley Highway; *NBSIR 75-689. SP305-7.*
- Transportation planning; Travel forecasting; Urban transportation; Modal choice; Systems analysis; *10429. SP305-1.*
- Transportation planning; Urban transportation; Data processing; Systems analysis; *9474. SP305.*
- Transportation planning; Urban transportation; Data processing; Systems analysis; *10164. SP305-1.*
- Transportation problem; Average distance; Distance; Multiple integrals; *16088. SP305-8.*
- Transportation problem; Linear programming; Network flows; Single commodity; Transportation; *14790. SP305-7.*
- Transportation safety; Effects of mechanical failure on environment; Failure prevention; Government action; Mechanical failure; Safety standards; *SP423, pp. 153-163 (Apr. 1976). SP305-8.*
- Transportation systems; Computer simulation model; Network simulation; Railroad freight transportation systems; *10150. SP305-1.*

- Transportation technology; Urban transportation; Future transportation; Regional transportation; Technology; Transportation; *10342. SP305-1.*
- Transportation theory; Allocation; Queueing theory; Scheduling; Switching theory; Traffic flow; *J72B No. 3, 215-227 (1968). SP305-1.*
- Transportation theory; Optimal interchange location; Optimal networks; Optimal road layout; Planar graphs; Planar networks; Road location; Steiner's problem; Street-network problem; *11633. SP305-2.*
- Transportation vehicle; Utility functions; Computer algorithm; Iterative equation; Optimal scheduling; Parametric analysis; *10185. SP305-1.*
- Transposed critical line; Helium; Hydrodynamics; One dimensional flow; Single phase fluid; Thermodynamics; *15047. SP305-7.*
- Transposition weighing; True mass; Uncertainty; Value; Balance; Buoyancy; Calibration; Standards; Substitution weighing; *TN577. SP305-3.*
- Transresistance; URS (universal ratio set); VERI (versatile ratio instrument); DRRS (direct reading ratio set); Junction; Precision measurements; Ratio; Resistor; Four-terminal; Resistance decade; *J70C3-228, 169-172 (1966). SP305.*
- Transrotor engine; Platinum resistance; Dynamic analog correlation system; Combination metering and safety valve; High temperatures; *TN295. SP305.*
- Transuranium element production; Waste recycling in a <sup>233</sup>U-<sup>235</sup>Th reactor; Actinide fuel, fertile material, and wastes; Recycle concept; *SP425, pp. 222-223. SP305-7.*
- Transversals; Algorithm; Combinatorics; Forests; Matroid; Partition; *10917. SP305-2.*
- Transverse; Boron; Electron scattering; Giant resonance; Longitudinal; Reduced widths; *14964. SP305-7.*
- Transverse; Electroexcitation; Energy dependent potential; Goldhaber-Teller model; Longitudinal; Matrix elements; Momentum transfer; Particle-hole model; Quasi-elastic model; Radiation tail; *12853. SP305-4.*
- Transverse; Longitudinal; Polyethylene terephthalate; Polypyromellitimide; Relative creep; Thermoelastic; *12165. SP305-3.*
- Transverse displacement; Vector solution; Approximation errors; Complex dielectric constant; Convergence confidence interval; Contour diagrams; Dielectric liquid; Diffraction; Experimental apparatus; Fresnel equations; Generalized Newton function; *TN369. SP305-1.*
- Transverse electromagnetic; Compatibility; Standard fields; Susceptibility; Testing; *14725. SP305-7.*
- Transverse excitation; Charged particles; Dispersion relation; Equation of motion; Radiation; *9743. SP305-1.*
- Transverse excitation laser; 2-methyl propene; Carbon isotopes; Carbonyl fluoride; CO<sub>2</sub> laser photolysis; Difluorocarbene; Difluorodichloromethane; Isotope ratio; Nitric oxide; Oxygen; Tetrafluoroethylene; *16657. SP305-8.*
- Transverse impact; Wave propagation; Waves in strings; Characteristics; Finite-difference equations; Linear viscoelasticity; Partial differential equations; *J72B No. 3, 201-214 (1968). SP305-1.*
- Transverse motion; Vibration pickups; Accelerometer; Axial motion; Ceramic; Comparison calibration; Transfer standard; *9813. SP305-1.*
- Transversely isotropic materials; Axisymmetric analysis; Cables (ropes); Composite materials; Contour plotting; End fittings for FRP rod and rope; Finite element analysis; FRP rod; FRP rope; Materials testing; Nonlinear analysis (shear); Potted end fittings; *15399. SP305-7.*
- Trans-1,3-butadiene; Electronic structure; Multiphoton ionization; *15981. SP305-8.*
- Trans-2-butene; Cis-2-butene; Ethylene; Hydrocarbons; Photoionization; *10351. SP305-1.*
- Trap formation; Bremsstrahlung; Co<sup>60</sup> photons; Energy dependence; F centers; Impurities; LiF (TLD); Rate dependence; Superlinearity; Thermoluminescence; *10921. SP305-2.*
- Trap performance; Trap-seal retention/reduction; Venting criteria; Venting, reduced-size; Air demand; Criteria for venting; Reduced-size venting; *14612. SP305-6.*
- Trapezoidal; Triangular; Dispersion; Distributions; Foli; Gaussian; Square; *9398. SP305.*
- Trapping; Charge carriers; Electrons; Gamma rays; Ge(Li) detectors; Germanium gamma-ray spectrometers; H Lifetime; Theoretical model; *12255. SP305-3.*
- Trapping; Energy, required to create an electron-hole pair; temperature; Recombination; Shockley theory of  $\epsilon$ ; Sil radiation detectors; *9299. SP305.*
- Trapping center; Crystal; Cubic; Jump rate; Point de Relaxation; Symmetry; *11419. SP305-2.*
- Trapping center; Crystal symmetry; Equivalent sites; J rates; Point defects; Relaxation; *J72A No. 3, 231 (1968). SP305-1.*
- Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detector; Generation centers; Germanium; Gold-doped silicon; Infrared response; *TN754. SP305-5.*
- Trapping centers; Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detector; Generation centers; Germanium; Gold-doped silicon; Infrared response; *TN743. SP305-4.*
- Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; Generation centers; Germanium; Gold-doped silicon; Infrared response; *TN773. SP305-5.*
- Trapping centers; Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; Generation centers; Germanium; Gold-doped silicon; Infrared response; *TN788. SP305-5.*
- Trapping centers; Wire bonds; Beam leads; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Generation centers; Gold-doped silicon; Methods of measurement; Microelectronics; Microdiodes; *TN806. SP305-5.*
- Traps; Zinc oxide; Dislocation; Electrochemical; Exchange current; Semiconductor; *SP455, pp. 139-148 (Nov. 1968). SP305-8.*
- Trap-seal reduction detector; Trap-seal retention; Crossflow; Field testing; plumbing; Performance criteria, plumbing; Performance, functional; Single-stack drainage; Siphonage, induced; Siphonage, self; Test loads, hydraulic; *13778. SP305-5.*
- Trap-seal retention; Crossflow; Field testing, plumbing; Performance criteria, plumbing; Performance, functional; Single-stack drainage; Siphonage, induced; Siphonage, self; Test loads, hydraulic; Trap-seal reduction detector; *13778. SP305-5.*
- Trap-seal retention; Venting; Venting criteria; Vents, reduced-size; DWV; Performance testing; Reduced-size vents; *B5. SP305-7.*
- Trap-seal retention/reduction; Venting criteria; Venting, reduced-size; Air demand; Criteria for venting; Reduced-size venting; Trap performance; *14612. SP305-6.*
- Travel forecasting; Urban transportation; Modal choice; Systems analysis; Transportation planning; *10429. SP305.*
- Traveling salesman; Trees; Algorithms; Arboricity; Branchings; Combinatorics; Graphs; Linear programming; *J71B4-249, 233-240 (1967). SP305.*

eling solvent; Calcium molybdate; Crystal growth; Lithium  
 alate; Single crystals; Temperature gradient zone melting;  
 196. SP305.  
 eling wave excitation; Vacuum ultraviolet laser; Adiabatic  
 approximation; Band strengths; D<sub>2</sub> Lyman emission; Emission  
 wavelengths; 12514. SP305-4.  
 eling wave oscilloscope; High voltage pulse; Nanosecond;  
 oscilloscope; Pulse generator; Sweep generator; Time base;  
 481. SP305-4.  
 eling-wave; Cathode ray tube; CRT; Deflection; Electron  
 am; GHz; Oscilloscope; Picosecond; Slow-wave; 12566.  
 305-4.  
 id wear; Accident; Review; Survey; Tire disablement; Tire  
 lation; Tire loading; Tire pressure gages; Tire use; TN528.  
 305-2.  
 id wear; Automobile tires; Environmental effects; Test  
 method; 13733. SP305-5.  
 id wear; Automobile tires; Environment, grading; Pavement;  
 Rating; Test method; 12874. SP305-4.  
 id wear; Automobile tires; Grading; Rating; Test method;  
 200. SP305-3.  
 id wear testing; Statistics; Tires; TN486. SP305-1.  
 iment of paper; Paper; Paper test methods; Restoration;  
 storiation of paper; Test methods for paper; 14658. SP305-  
 iments; Cotton; Fabrics; Flame retardants; Flammability;  
 phosphorus; Polyester; Rayon; NBS-GCR-73-16. SP305-8.  
 y of the Meter; Education; International System of Units;  
 trication; Metric education; Metric system; Training;  
 441. SP305-8.  
 y of the meter; English measurement system; Measure-  
 ment systems; Metric system; SP3044. SP305-1.  
 y of the Meter (standards); U.S.A. standard time zones;  
 NO time and frequency; Astronomical time measure-  
 ments; Clock synchronization; Clocks; Coordinated Universal  
 Time (UTC); Frequency; Frequency standards; International  
 Atomic Time (TAI); TN649. SP305-6.  
 y of the Metre; Base units; Centennial volume; History of  
 International Bureau of Weights and Measures; Interna-  
 tional System of Units; Measurements; SI; SP420. SP305-7.  
 Block Gaussian elimination; Graph; Inversion; Partition-  
 ing; Sparse matrix; J. Res. 80B No. 2, 245-257 (1976).  
 305-8.  
 Center; Centroid; Facility location; Graph; J.79B Nos. 3  
 14, 107-115 (1975). SP305-7.  
 2-connected; Block-cutpoint tree; Graph; 16154. SP305-  
 Algorithms; Arboriscences; Branchings; Combinatorics;  
 Graphs; Linear programming; Traveling salesman; J.71B4-  
 2, 233-240 (1967). SP305.  
 Algorithms; Networks; Paths; Shortest-paths; TN772.  
 305-5.  
 Combinatorial analysis; Enumeration; Graphs; Maximiza-  
 tion; Spanning trees; J.78B No. 4, 193-196 (1974). SP305-  
 Digraphs; Graphs; Products; Tensor; J.74B No. 4, 235-  
 237 (1970). SP305-2.  
 Helly's theorem; Mathematical induction; Minimum-  
 length coverings; Node-covering; J.76B Nos. 1 and 2, 39-43  
 72). SP305-4.  
 Elimination; Calibration; Calibration design; Experiment  
 design; Instrumental drift; Measurement process; Statistical  
 analysis; TN844. SP305-6.  
 Helium; Argon; Cryogenics; Forecasts; Helium; Hydrogen;  
 liquefied natural gas; Oxygen; 12451. SP305-4.  
 Helix in science; Bioengineering; Budgetary environment; So-  
 ciology; Technology; 10789. SP305-1.  
 proceedings; Videotape recording; Closed circuit televi-  
 sion; Court proceedings; Court security; 16185. SP305-8.  
 Trial proceedings; Videotape recording; Closed circuit televi-  
 sion; Court proceedings; Court security; 16186. SP305-8.  
 Triangle group; Element of finite order; F-group; Normal sub-  
 group; J.74B No. 4, 231-233 (1970). SP305-2.  
 Triangle of reference; Area coordinates; Distance coordinates;  
 Plane Geometry; Radical center; J. 76B Nos. 3 and 4, 145-  
 152 (1972). SP305-4.  
 Triangular; Dispersion; Distributions; Folding; Gaussian;  
 Square; Trapezoidal; 9398. SP305.  
 Triangular lattice; Anisotropic coupling; Elliptic integrals; Heat  
 capacity; Internal energy; Ising model; 14145. SP305-6.  
 Triangular lattice; Conditional probability; Ising spin; Monte  
 Carlo method; Spin system; 15865. SP305-8.  
 Triatomic; Vibration-rotation; Bending vibration; Large am-  
 plitude; Quasi-linear; Theory; 14357. SP305-6.  
 Triatomic molecules; Vibration-rotation Hamiltonian; Double-  
 minimum potentials; Large-amplitude vibrations; Linear  
 molecules; Rotational constants; 13146. SP305-5.  
 Triazine; X ray; Diffractometer; Direct methods; Explosives;  
 Single-crystal; 15735. SP305-8.  
 TRIB; Data communications; Modems; Terminals; Throughput;  
 TN779. SP305-5.  
 TRIB; Digital data communication; Digital system performance;  
 Draft standard ANSI X3; RER; TOT; 14266. SP305-4.  
 Tri-bar targets; Coherence; Partially coherent imaging; Resolu-  
 tion; Resolving power; 12320. SP305-3.  
 Tribenzylamine; Analysis; Biological materials; Chloroform;  
 Chromium; Environmental materials; Neutron activation;  
 Radiochemical separation; Solvent extraction; 15409. SP305-  
 7.  
 Tribo-ellipsometry; Electrical engineering units; Electron  
 recombination reactions; Heat pipe oven; Lead-based paints;  
 Popular metric chart; TNB 57, No. 3, 53-76 (1973). SP305-  
 5.  
 Tribo-ellipsometry; Repassivation kinetics; Stress corrosion  
 cracking; Titanium alloy; 14189. SP305-6.  
 Tribo-ellipsometry; Repassivation kinetics; Steel; Stress corrosion;  
 14283. SP305-6.  
 Tribology; Wear; Economic savings of failure prevention; Fric-  
 tion; Lubrication; Mechanical failure; SP423, pp. 117-139  
 (Apr. 1976). SP305-8.  
 Tricalcium phosphate; Whitlockite; Ca/P ratio; Pyrolysis;  
 Pyrophosphate; Stoichiometry; 12183. SP305-3.  
 Tricalcium silicate; Spectrophotometry; Antimony; High pre-  
 cision determination of nickel; Simultaneous determination  
 copper; Cobalt; "releasing agents" in flame emission and  
 atomic absorption; Magnesium; Ferrous SRMs; Stoichiomet-  
 ric mixtures uranium oxide; TN402. SP305.  
 Trichlorides; Ce<sup>3+</sup>, Nd<sup>3+</sup>, Sm<sup>3+</sup>, Ho<sup>3+</sup>, and Er<sup>3+</sup>; Electron-lattice  
 interaction; LaCl<sub>3</sub>; Pulsed microwave; Rare-earth; Relaxation;  
 Spin-lattice; 9924. SP305-1.  
 Trichlorofluoromethane; Absorption cross section; Chlorine  
 atom; Dichlorodifluoromethane; Freons; Photochemistry;  
 Quantum yields; Stratosphere; 15571. SP305-7.  
 Trichlorosilane; Boron measurements; Mass spectrometry;  
 Semiconductor grade silicon; SP422, pp. 709-714 (Aug.  
 1976). SP305-8.  
 Trichlorosilane; Ultraviolet spectrum; Force constants; Free  
 radical; Infrared spectrum; Matrix isolation; Photolysis; SiCl<sub>4</sub>;  
 11003. SP305-2.  
 Triclosan; 2-hydroxy-2',4',4'-trichlorodiphenyl ether; Bac-  
 teriostats; Blood analysis; Gas chromatography; Trace analy-  
 sis; SP422, pp. 851-859 (Aug. 1976). SP305-8.  
 Trident production; Weak interaction; Lepton; *m*-spin;  
 Neutrino; SU(2)<sub>M</sub> × SU(2)<sub>L</sub>; 13127. SP305-5.  
 Triagonal; Diagonally dominant; Diagonal matrix; D-stability;  
 Gersgorin's theorem; Lyapunov's theorem; M-matrix; Oscilla-  
 tory; Positive definite; Principal minor; Routh-Hurwitz con-  
 ditions; Sign stable; Sign symmetric; Stability; 14782. SP305-7.

- Triethylboron; Beryllium, electrodeposition of; Beryllium azide; Beryllium thiocyanate, decaborane; Dimethyl beryllium; Magnesium, electrodeposition of; Nonaqueous plating baths; Grignard reagents; Organic plating baths; 12304. SP305-3.
- Trifluoramine; Dipole moment; Hyperfine structure; Microwave spectrum; Quadrupole coupling; Stark effect; Symmetric top; 13426. SP305-5.
- Trifluoramine oxide; Chlorine pentafluoride; Chlorine trifluoride; Cl-F bond energy; Flow calorimetry of gases; Heats of formation of fluorine-containing oxidizers; Hydrogen chloride; N-O bond energy; 11245. SP305-2.
- Trifluoramine oxide; Vibrational assignment; Infrared; Laser; Low temperature; Raman; 11240. SP305-2.
- Trifluoro(pentafluoroethyl)silane; Trifluoro(trifluoromethyl)silane; Alpha-elimination; Carbenes; Difluorocarbene; Difluoriodo(perfluoroalkyl)silanes; Fluoroalkylsilanes; Fluoro(trifluoromethyl)carbene; Silicon difluoride; 12867. SP305-4.
- Trifluorophosphine; Carbonyl; Chemical vapor deposition; Electrodeposition; Hexafluoroacetylacetone; Rhodium coatings; 11942. SP305-3.
- Trifluoropropene; Copolymerization; Pressure; Radiation and reactivity ratios; Tetrafluoroethylene; 9602. SP305-1.
- Trifluorosilane; Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Force constants; Infrared spectrum; Matrix isolation;  $\text{SiF}_3$  free radical; Thermodynamic properties; 11234. SP305-2.
- Trifluoro(trifluoromethyl)silane; Alpha-elimination; Carbenes; Difluorocarbene; Difluoriodo(perfluoroalkyl)silanes; Fluoroalkylsilanes; Fluoro(trifluoromethyl)carbene; Silicon difluoride; Trifluoro(pentafluoroethyl)silane; 12867. SP305-4.
- Trigger; Tunnel diode; Directional coupler; Picosecond; Pulse generator; Risetime; 15653. SP305-7.
- Triglycerides; Correlation; Esters; Heat capacity; Oligomers; Sebaceous; 16275. SP305-8.
- Trigonal bipyramid; E.p.r.; Free radicals; Low-energy irradiation; Low temperature;  $\text{PCl}_3$ ;  $\text{PCl}_2$ ;  $\text{PCl}_4$ ;  $\text{Sp}^2$  hybrids; 10572. SP305-1.
- Trigonal selenium; Annealed and quenched glasses; Calorimetry; Glass transformation; Heat capacity; Selenium; Supercooled liquid; Thermodynamic properties; 14179. SP305-6.
- Trigonal symmetry; X-ray structure determination; Inorganic coordination complex; Octahedral coordination; Pyrazole; 11826. SP305-3.
- Trigonal symmetry; X-ray structure determination; Imidazole; Ligand; Octahedral coordination complex; 11107. SP305-2.
- Trigonal-prismatic coordination; Dichalcogenides; Intercalation compounds; Layer structures; Modulated structures; Occupation waves; Selenides; Semiconductor-to-metal transitions; Structure transitions; Sulfides; Tellurides; SP364, pp. 625-635. SP305-4.
- Trigonometric functions; Bessel functions; Complete elliptic integrals; Hyperbolic function; Infinite integrals; Modified Bessel functions; Noise theory; Signal statistics; J79B Nos. 3 and 4, 137-170 (1975). SP305-7.
- Trialhalide ions; Force constants; Infrared spectrum; Raman spectrum; 9920. SP305-1.
- Trimethylarsine; Trimethylstibine; Antimony; Antimony oxide; Arsenic; Arsenic acid; Biomethylation; Cacodylic acid; Diffusion; Flame retardant; Oxidation rate; Stibinic acid; 16628. SP305-8.
- Trimethylene sulfone; 3-methyl sulfolane; Pyrolysis;  $\text{SO}_2$ ; 15952. SP305-8.
- Trimethylstibine; Antimony; Antimony oxide; Arsenic; Arsenic acid; Biomethylation; Cacodylic acid; Diffusion; Flame retardant; Oxidation rate; Stibinic acid; Trimethylarsine; 16628. SP305-8.
- Trinitromethide; X-ray diffraction; Crystal structure; Hydrazine; Hydrazinium trinitromethide; Hydrogen bonding; J77 No. 3, 309-318 (1970). SP305-2.
- Trinitrotoluene; Vapors; Calibration device; Dinitrotoluene ethylene glycol dinitrate; Explosives; Generator; 164 SP305-8.
- Trinuclear complex; Bis[triaquo tri  $\mu(1,2,4$  triazolo(-N<sub>1</sub>,N<sub>2</sub>)-nickel)]nickel; Crystal structure; 10596. SP305-1.
- Trinuclear nickel(II) complex; X-ray structure analysis; Bis-(tri-1,2,4-triazolo-N<sub>1</sub>,N<sub>2</sub>)-triaquonickel] nickel hexanitr dihydrate; 12291. SP305-3.
- Trioxane; Annealing of polyoxymethylene; Polyoxymethylene polyoxymethylene crystals; Solid state polymerization; 125 SP305-4.
- Trioxane; Electret domains; Polyoxymethylene crystals; Radiation damage; Solid state polymerization; 13876. SP305-6.
- Trioxane crystals; Dielectric loss; Dielectric relaxation; Molecular motions; Nuclear magnetic resonance absorption; Polyoxymethylene crystals; Solid state polymerization; 153 SP305-7.
- Trioxane crystals; Polyoxymethylene crystals; 12578. SP305-7.
- Tripartite nomogram; Spectrometry; 9364. SP305.
- Triphenyl methane; X- and  $\gamma$ -rays; Cyanides; Dosimetry; Dyes; Electron beams; Reflection densitometry; Spectrophotometry; 11644. SP305-2.
- Triphenylmethane dyes; Dosimetry; Dyes; Gamma radiation; Nitrobenzene; Oxidation; Pararosaniline cyanide; Radiochromic dyes; 13533. SP305-5.
- Triphenyl-methane dyes; Dosimetry; Dyes; Dye yield; Gamma rays; Pararosaniline cyanide; 4,4',4"-tri-aminotriphenylacetone; 14292. SP305-6.
- Triphenylmethane dyes; Vinyl resins; X-ray detection; Dosimetry; Dyes; Gels; Microdosimetry; Plastic scintillators; 14659. SP305-6.
- Triphenylphosphine; Tungsten bronze; Electroanalysis; Electrochromism; Mixed oxides; Oxygen reduction; Phosphoric acid; Binary metal-sulfur arrays; Transition elements; NBSIR 75-7 SP305-8.
- Triple collisions; Viscosity; Collision integrals; Hard sphere; Thermodynamic conductivity transport properties; 127 SP305-4.
- Triple collisions; Viscosity; Dense gases; Rigid disks; Rigid spheres; Thermal conductivity; Transport coefficients; 95 SP305.
- Triple collisions; Viscosity; Dense gases; Rigid spheres; Thermal conductivity; Transport properties; 9400. SP305.
- Triple collisions; Viscosity; Dense gases; Diffusion; Rigid disks; Rigid spheres; Thermal conductivity; Transport properties; 10709. SP305-1.
- Triple commission for spectroscopy; Ultraviolet atomic spectra; Atomic spectra; Rare-earth spectra; Transition probabilities; 9951. SP305-1.
- Triple diagonal matrices; Chains; Cycles; Jacobi matrices; J71B4-426, 215-224 (1967). SP305.
- Triple differential cross section; Born approximation; Hydrogen; Ionization; 14335. SP305-6.
- Triple pass on-axis; Flame; Hydrogen; Long-path burner; Non-tunable spectrometer; Non-metals; Overexcitation; Phosphorus; Spectrometry; Sulfur; 12658. SP305-4.
- Triple point; Boiling point; Neon; 11624. SP305-2.
- Triple point; Calibration; Fixed point; Freezing point; Furnace; High temperature; IPTS-68; Platinum resistance thermometer; Temperature scale; Thermocouple; 12354. SP305-3.
- Triple point; Dilatometry; Enthalpy; Entropy; Helical molecules; Low pressure; Phase diagram; Polytetrafluoroethylene; Transitions; J72A No. 5, 467-470 (1968). SP305-1.
- Triple point; Ethane; Heat capacity; Heat of fusion; Heat of transition; Transition temperature; 16522. SP305-8.



point; Temperature scale; Argon; Fixed point; 13586. SP305-5.

point; Vapor pressure;  $^{20}\text{Ne}$ ;  $^{22}\text{Ne}$ ; Boiling point; Neon; isotopes; Neon point; 12597. SP305-4.

point; Vapor pressure equation; Critical point; Oxygen; Temperature scales; 12672. SP305-4.

point; Water; Resistance thermometers; Temperature measuring instruments; 13624. SP305-5.

point; Calibration; Calibration errors; Cryostat; Fixed; Freezing point; International Practical Temperature Scale; Platinum resistance thermometer; Thermodynamic Temperature Scale; Thermometry; *Monogr. 126*. SP305-5.

point of water; Vapor pressure; Mercury manometer; 13628. SP305-8.

point of water; Vapor pressure of water; Precision mercurimeter; 16096. SP305-8.

point of water; Vapor pressure of water; Precision mercurimeter; *J. Res. 80A* No. 3, 505-521 (1976). SP305-8.

point of water; Zinc point; Comparator; International Practical Temperature Scale of 1968; IPTS-68; Oxygen point; Platinum resistance thermometer; Temperature standard; Tin; *J. Res. 80A* No. 3, 477-504 (1976). SP305-8.

precision; User's manual; Double precision; Elementary operations; Equation solver; Linear equation solver; Magnetic utility program; Multiple-precision computing; Multiprecision programming; PRECISE; *TN446*. SP305-1.

platinum; Isotopes; Lead; Mass spectrometry; 9628. SP305-1.

point cell; Ice mantle; Immersion cooler; 10932. SP305-1.

point constants; Vapor pressure; Boiling point; Critical pressure; Melting pressure; Methane; 12896. SP305-4.

point region; T-S diagram; Enthalpy; Entropy; Hydrogen; Pressure-volume; Properties; Temperatures; 13153. SP305-5.

inorganics; Methylene; Radical; Rate constant; Singlet; 13153. SP305-6.

correlation function; Closure approximation; Isothermality derivative of pair correlation function; Liquid; Neutron scattering; Pair correlation function; 13095. SP305-5.

correlation function; Closure approximation; High pressure; Lennard-Jones potential; Liquid densities; Monte Carlo method; 13153. SP305-5.

correlation function;  $^4\text{He}$ ; Condensate fraction; Ground state wave function; Neutron diffraction; Pair correlation function; 13943. SP305-6.

emission; Vibration spectrum; Fluorescence; Phosphorescence; Pyrazine; Singlet emission; Spectrum of pyrazine in benzene; 13092. SP305-5.

formation; Absolute quantum efficiency; Absolute quantum yield; Calorimetry; Luminescence; Photoacoustic spectroscopy; Piezocalorimeter; Transducers; *J. Res. 80A* No. 3, 19 (1976). SP305-8.

production; Electrons; Pair production; Photon polarization; Photons; Positrons; 11406. SP305-2.

state; Absorption spectrum; Excited states; Ketene; Spectroscopy; 12075. SP305-3.

state; Copper chloride-pyridine-*n*-oxide; Exchange coupling; Magnetic spectra; Optical spectra; 9854. SP305-1.

state; Electron impact; Energy loss; Energy surface; Exchange energy;  $\text{H}_2\text{O}$ ; Repulsive curve; 14219. SP305-6.

state; Energy transfer; Fluorescence; Phosphorescence; 13605-2.

state; Vapor phase; Aldehyde; Energy transfer; Photolysis; 13605. SP305-5.

states; Aromatics; Electronic spectroscopy; Intersystem crossing; Quantum yields; 13322. SP305-5.

states; Crystals; Phosphorescence; 9178. SP305-3.

states; Delayed fluorescence; Fluorescence; Intersystem crossing; Phosphorescence; 11014. SP305-2.

states; Dye lasers; Lasers; Quenching agents; 13297. SP305-5.

states; Electron energy loss; Forbidden transitions; Ozone; 15750. SP305-8.

states; Electron impact; Energy loss spectra; Oxygen; Ozone; 15473. SP305-7.

states; Energy transfer; Fluorescence; Phosphorescence; 10514. SP305-1.

states; Energy transfer; Fluorescence; Phosphorescence; 10570. SP305-1.

states; Energy transfer; Fluorescence; Phosphorescence; 9832. SP305-1.

states; Fluorescence; Intersystem crossing; Quantum yield; 11350. SP305-2.

TRIS; Tris(hydroxymethyl)aminomethane; Thermochemistry; Enthalpy of reaction; Heat of solution; Solution calorimetry; Standard reference material; THAM; *J.77A* No. 5, 581-597 (1973). SP305-5.

Tri-service; Underground heat distribution; ASTM, criteria; Federal Construction Council; Interagency; Prequalification; System performance; *B5S66*, pp. 73-77. SP305-7.

Tris(hydroxymethyl)aminomethane; Acidic dissociation; Dissociation constant; Emf measurements; Ionization processes; N-methylpropionamide; Solvation; 13712. SP305-5.

Tris(hydroxymethyl)aminomethane; Dissociation constant; Medium effect; Methanol-water solvents; Solubility; *J.72A* No. 2, 141-148 (1968). SP305-1.

Tris(hydroxymethyl)aminomethane; Thermochemistry; Enthalpy of reaction; Heat of solution; Solution calorimetry; Standard reference material; THAM; TRIS; *J.77A* No. 5, 581-597 (1973). SP305-5.

Tris(hydroxymethyl)aminomethane; Thermochemistry; Enthalpy of reaction; Solution calorimetry; Standard reference material; *J.77A* No. 5, 599-606 (1973). SP305-5.

Tris(hydroxymethyl)aminomethane and tris pH buffer; Clinical pH standard; PH standard; Physiologic pH; 12589. SP305-4.

Trisphenanthroline cobalt(II) nitrate dihydrate; Trisphenanthrolinezinc nitrate dihydrate; Electron absorption spectrum; *J.70A5-413*, 417-419 (1966). SP305-3.

Trisphenanthroline copper(II) nitrate dihydrate; Trisphenanthroline zinc(II) nitrate dihydrate; D-d transitions; EPR spectrum; Jahn-Teller effect; Polarized optical spectrum; 10228. SP305-1.

Trisphenanthroline zinc(II) nitrate dihydrate; D-d transitions; EPR spectrum; Jahn-Teller effect; Polarized optical spectrum; Trisphenanthroline copper(II) nitrate dihydrate; 10228. SP305-1.

Trisphenanthrolinezinc nitrate dihydrate; Electron absorption spectrum; Trisphenanthroline cobalt(II) nitrate dihydrate; *J.70A5-413*, 417-419 (1966). SP305-3.

Tris(2,2'-dipyridine)copper(II); Aqueous solutions; EPR; Exponential temperature dependence; Intra-molecular relaxation; Jahn-Teller effect; 12116. SP305-3.

Tritanopia; Chromatic adaptation; Color blindness; Color-matching functions; Color vision; Deuteranopia; Opponent-colors theory; Protanopia; Three-components theory of color vision; 9819. SP305-1.

Tritanopia; Visibility; Vision; Color; Contrast; Detection; 13681. SP305-5.

Tritanopia; Vision; Chromaticity; Color; Perception; Protanopia; *J.74A* No. 1, 23-30 (1970). SP305-2.

Tritium; Cross sections; Dipole; Final state interactions; Helium 3; Photodisintegration; 10378. SP305-1.

Tritium; Cross sections; Electric dipole; Helium-3; Photodisintegration; Separable potential; 10409. SP305-1.

- Tritium; Electron scattering; Final state rescattering; Helium-3; Separable potential; Three-body problem; 12849. SP305-4.
- Tritium;  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>; Iron passivity; 10809. SP305-1.
- Tritium; Helium-3; Isospin; Photonuclear; Radii; Sum rule; 11416. SP305-2.
- Tritium; Vapor pressure; Compilation; Density; Deuterium; Electrical properties; Enthalpy; Entropy; Fixed points; Hydrogen; Mechanical properties; Optical properties; Specific heat; Thermophysical properties; Transport properties; 7N641. SP305-5.
- Tritium; Xenon-131m; Argon-37; Carbon-14; Internal gas counting; Radioactive standardization; 14297. SP305-6.
- Tritium breeding; Bondarenko; F-factors; Fusion reactors; Niobium; Reference Theta-Pinch Reactor; SP425, pp. 722-728. SP305-7.
- Tritium exchange, measurement of enolization by; 2-deoxy sugars, enolization of; Acyclic intermediates in mutarotation of sugars; Aldoses, enolization of; Alkaline rearrangement of sugars; Ene-diols of sugars; Enolization, measurement by tritium exchange; 11338. SP305-2.
- Tritium standards; Gas counting; Microcalorimetry; 14801. SP305-7.
- Tritium-labelled compounds, D-mannose-2-*t* and D-glucose-2-*t*; D-Gluconic-2-*t* acid, synthesis of; D-Glucose-2-*t*, synthesis and radioanalysis of; 173A No. 1, 75-77 (1969). SP305-1.
- Tritons; Alpha particles; Cross sections; Deuterons; Neutrons; Phase shifts; SP425, pp. 701-703. SP305-7.
- Trivalent manganese; Four-layer SrMnO<sub>3</sub>; Perovskites; Phase equilibria; Strontium manganates; Tetravalent manganese; 11764. SP305-2.
- Tropospheric mixing; Ar-37; Atmospheric radioactivity; Cosmic-ray reactions; Exponential distribution; Low-level counting; Noble gas separation; On-line computer; Pulse shape discrimination; 15744. SP305-8.
- Tropospheric scatter; Radio horizon; Satellite; 10976. SP305-2.
- Truck; Acoustics; Environmental conditions; Noise measurement; Noise (sound); Transportation noise; NBSIR 76-1138. SP305-8.
- Truck; Acoustics; Noise measurement; Noise (sound); Tire noise; Transportation noise; 15792. SP305-8.
- Truck; Acoustics; Noise measurement; Noise (sound); Tire noise; Transportation noise; 16370. SP305-8.
- Truck; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tire noise; Transportation noise; 15002. SP305-7.
- Truck noise; Waste incineration; Cancer detection; City games; Temperature scale; TNB 57, No. 2, 25-52 (Feb. 1973). SP305-5.
- Truck noise (exterior); Truck noise (interior); Trucks; Acoustics; Noise measurement; Noise (sound); TN737. SP305-4.
- Truck noise (interior); Trucks; Acoustics; Noise measurement; Noise (sound); Truck noise (exterior); TN737. SP305-4.
- Truck tire; Directivity; Noise source level; Sound pressure level; 13808. SP305-6.
- Truck tires; Acoustics; Military vehicles; Noise; Sound; Tire noise; 14875. SP305-7.
- Trucks; Acoustics; Noise measurement; Noise (sound); Truck noise (exterior); Truck noise (interior); TN737. SP305-4.
- Trucks; Acoustics; Noise measurement; Noise (sound); Tire noise; Transportation noise; 14719. SP305-6.
- Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tires; Transportation noise; 12329. SP305-3.
- Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tire noise; Transportation noise; 14873. SP305-7.
- Trucks; Urban planning; Acoustics; Noise measurement; Noise pollution; Noise (sound); Sound transmission; Tire noise; Transportation noise; 14874. SP305-7.
- True mass; Uncertainty; Value; Balance; Buoyancy; Calibrators; Standards; Substitution weighing; Transposition weighing; 7N577. SP305-3.
- True mass; Weighing; Apparent mass; Buoyancy correction; Mass comparison; Mass value; Monogr. 133. SP305-6.
- Truncated Gaussian optics; Damage morphology; Data thresholds; Laser-induced scatter; Ruby; Spark threshold; Thin films; SP372, pp. 123-134. SP305-4.
- Truncation; Accuracy; Approximations; Asymptotic expansion; Cauchy distribution; Characteristic function; Closed form; Contour; Convergence; Curves; Distribution function; Fourier transform; J.77B Nos. 3 and 4, 143-198 (1971). SP305-5.
- Truncation; Vlasov equation; Eigenfunction; Landau damping; Non-linear; Numerical solution; Plasma physics; 11730. SP305-1.
- Truncation error; Gamma ray penetration; Moments method; Point gamma source in water; Polynomial approximation; Radiation transport; 13188. SP305-5.
- Truncation error; Vlasov equation; Expansion coefficients; Hermite polynomials; Non-linear; Numerical; Plasma; No. 4, 281-291 (1969). SP305-1.
- Truncation errors; Biorthogonal functions; Gamma rays; Moments methods; Neutrons; Shielding; 12863. SP305-4.
- T-S diagram; Enthalpy; Entropy; Parahydrogen; Pressure; Volume; Properties; Temperatures; Triple-point curve; TN343. SP305.
- TTF-TCNQ; Eddy currents; Electron paramagnetic resonance; Microwave conductivity; Tetrathiofulvalinium-tetracyanoquinodimethane; 15917. SP305-8.
- TTF-TCNQ; Electrical conductivity; Organic conductors; Tetrathiofulvalenium-tetracyanoquinodimethane; 11730. SP305-8.
- TTF-TCNQ; D.c. conductivity; Microwave conductivity; Organic conductors; Thermal expansion; 16050. SP305-8.
- TTL; Vendor qualification; Circuit procurement; Component screening; Custom circuits; LSI; Microelectronics; Parameter control; Process uniformity; Random faults; Reliability; Patterns; 16620. SP305-8.
- T-tube; C II; Ca II; Experimental; Monochromator; Parameters; Stark profiles; 10220. SP305-1.
- T-tube; Carbon II; Coulomb approximation; Electron density; Electron temperature; Equivalent electrons; Local thermodynamic equilibrium; Oscillator strength (f-value); Optical depth; T II; Plasma; 9388. SP305.
- Tube; Creep; Primary creep; Shear; Shell; Stress analysis; wall; Torsion; J.71C3-256, 209-225 (1967). SP305.
- Tube; Mass-limiting two-phase flow; Nozzle; 9693. SP305.
- Tube; Two-phase; Boundary layer; Cryogenic; Heat transfer; Hydrogen; Low pressure; Nitrogen; Particle-wall interaction; Solid-vapor; 11505. SP305-2.
- Tube; Two-phase flow; pickups; Cryogenics; Dimensional analysis; Heat transfer; Hydrogen; Low pressure; Solid-vapor; 9814. SP305-1.
- Tubes; Flow; Hydrogen; Nitrogen; Solid plug; Solid-vapor; Sub-triple point; 11008. SP305-2.
- Tubing; Corrosion; NaCl solution; Passivation; Sheet; Stainless steel; Titanium; 14516. SP305-6.
- Tubing; FEP; fluorocarbon; Chemical, mechanical, and electrical properties; FEP tubing; Fluorocarbon plastic tubing; 11730. SP305.
- Tubing, heat-shrinkable fluorocarbon plastic; FEP heat-shrinkable tubing; Fluorocarbon plastic heat-shrinkable tubing; Plastic tubing, fluorocarbon; PTFE heat-shrinkable tubing; 1547-71. SP305-3.
- Tubing, PTFE-fluorocarbon; Chemical, mechanical, and electrical properties; PTFE tubing; Fluorocarbon plastic tubing; Polytetrafluoroethylene; PTFE tubing; P52-71. SP305.
- Tubular prosthesis; Neurovascular procedures; Peripheral nerve repair; SP415, pp. 91-98. SP305-7.

fied carpet mill; Industrial dynamics; Simulation; 9523. SP305.  
 key's lambda distributions; Approximations; Distributions; non-normal; Lambda distributions; Logistic distribution; Order statistics; Range; Statistics; Tables; 12603. SP305-4.  
 mor; In vivo; Melanoma; Nuclear magnetic resonance; Spin-lattice relaxation; Spin-spin relaxation; 13843. SP305-6.  
 mor; In vivo; Mouse; Nuclear magnetic resonance; Relaxation time; 13194. SP305-5.  
 mor; Ultrasonic; Velocity; Absorption; Attenuation; Brain; Neoplasm; TAST; Thermal effects; Tissue; SP453, pp. 153-63 (Oct. 1976). SP305-8.  
 mor; Ultrasonic spectroscopy; Ultrasound; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Impedance; Medical diagnosis; Microscopy; Pattern recognition; Reconstruction; Scattering; Tissue characterization; Tissue parameters, tissue signature; SP453. SP305-8.  
 mor detection; Ultrasound; Diagnosis; Doppler effect; Optimization; Resonance; Scattering; Tissue characterization; Tissue parameters; SP453, pp. 11-17 (Oct. 1976). SP305-8.  
 mor dose; Quality control; Medical physicist; Radiation measurement; Radiation therapy; SP456, pp. 111-118 (Nov. 1976). SP305-8.  
 nable coaxially-coupled microwave cavity; EPR-optical double resonance; Low temperature; Magnetic resonance (EPR); 0930. SP305-2.  
 nable dye laser; Intracavity technique; Ion cyclotron resonance; Mass spectrometry; Negative ions; Photodetachment; 14770. SP305-7.  
 nable dye laser; Ion cyclotron resonance; Mass spectrometry; Negative ions; Photodetachment; Spin-orbit coupling; 14771. SP305-7.  
 nable IR laser; Air quality measurements; Improved resolution spectroscopy; Infrared frequency measurements; Infrared spectrometer; Spin flip laser; TN670. SP305-8.  
 nable lasers; Discharge; Discharge tubes; Hollow cathode; Spectroscopy; Trace detection; 16604. SP305-8.  
 nable UV source; ADP crystals; Dye laser; Fluorescein dye; Second harmonic generation; 12539. SP305-4.  
 ners; Tuning circuit; Impedance measurement; Microwaves; m-waves; Reflection coefficient measurement; 12229. SP305-3.  
 ngstates; Crystal structure; Lanthanide compounds; Molybdates; SP364, pp. 445-456. SP305-4.  
 ngstates; Molybdates; Raman spectra; J.72A No. 1, 81-84 (1968). SP305-1.  
 ngsten; Absorption; Ellipsometry; Refractive index; 12270. SP305-3.  
 ngsten; Activation analysis; Molybdenum; Radiochemistry; solvent extraction; Technetium; 11462. SP305-2.  
 ngsten; Adsorbed atomic layers; Cesium; Inelastic-electron scattering; Metal-insulator transition; Plasmon energy losses; 1920. SP305-3.  
 ngsten; Adsorption; Binding states; Chemisorption; Desorption; Kinetics; Nitrogen; 9916. SP305-1.  
 ngsten; Adsorption; Carbon monoxide; Field emission; Hydrogen; Metal surfaces; Oxygen photoemission; 13250. SP305-5.  
 ngsten; Adsorption; Chemisorption; Desorption; Electron stimulated desorption; Oxidation; Oxygen; 12791. SP305-4.  
 ngsten; Adsorption; Chemisorption; Cross section; Desorption; Electron stimulated desorption; Hydrogen; Nickel; Nitrogen; Oxygen; Surface; 12332. SP305-3.  
 ngsten; Adsorption; Chemisorption; Desorption; Electron bombardment; Isotope; Oxygen; Single crystal; 11754. SP305-2.  
 ngsten; Adsorption; Energy distribution; Field emission; Fowler-Nordheim curves; Resonance tunneling; Strontium; 0879. SP305-2.  
 Tungsten; Auger-electron spectra; Characteristic electron energy-loss spectra; Digital data-recording and control system; Electron energy analyzer; Liquid aluminum; 13632. SP305-5.  
 Tungsten; Binding states; Carbon monoxide; Chemisorption; Cross section; Electronic desorption; Electron impact; Ion energy distribution; Nitric oxide; Oxygen; Threshold voltage; 10453. SP305-1.  
 Tungsten; Binding states; Chemisorption; Electron impact; Flash desorption; Nitrogen; 11485. SP305-2.  
 Tungsten; Binding states; Chemisorption; Cross section; Desorption; Electronic desorption; Electron impact; Oxygen; Physisorption; 11212. SP305-2.  
 Tungsten; Bromine; Cadmium; Erbium; Gold; Half lives; Iridium; Measurement; Nuclear isomers; Selenium; 12873. SP305-4.  
 Tungsten; Bromine; Cadmium; Erbium; Gold; Half lives; Iridium; Measurement; Nuclear isomers; Selenium; 14356. SP305-6.  
 Tungsten; Carbon dioxide; Catalytic; Chemisorption; Decomposition; Formaldehyde; Methane; 13663. SP305-5.  
 Tungsten; Carbon monoxide; Chemical shift; Chemisorption; ESCA; Oxygen; 14162. SP305-6.  
 Tungsten; Carbon monoxide; Chemisorption; Flash desorption; Infrared spectroscopy; Molecular vibration; 14511. SP305-6.  
 Tungsten; Carbon monoxide; Chemisorption; Isotopic mixing, flash desorption; Molybdenum; Nitrogen; Rhenium; Sticking coefficient; 11484. SP305-2.  
 Tungsten; Carbon monoxide; Chemisorption; Electron stimulated desorption; Ion angular distribution; Oxygen; 16398. SP305-8.  
 Tungsten; Carbon monoxide; ESCA; Monolayer; Oxygen; Photoyield; Sensitivity; 14027. SP305-6.  
 Tungsten; Carbon monoxide; Field emission; Hydrogen; Nitrogen; Second layer migration; 10945. SP305-2.  
 Tungsten; Carbon monoxide; High temperature; Isotopic mixing; Molybdenum; Nitrogen; Rhenium; Sticking coefficient; 11377. SP305-2.  
 Tungsten; Chemisorption; Field emission; Photoemission; Single crystals; Surface electron spectroscopy; Surface state; 14982. SP305-7.  
 Tungsten; Chlorine; High temperature; Mass spectrometry; Oxygen; Reaction kinetics; 11061. SP305-2.  
 Tungsten; Condensation; Field emission; Hydrogen; Molecular beam; 10756. SP305-1.  
 Tungsten; Condensation; Field emission; Hydrogen; Molecular beam; 10760. SP305-1.  
 Tungsten; Cryogenics; Electrical resistivity; Lorenz ratio; Seebeck effect; Standard reference material; Thermal conductivity; Transport properties; NBSIR 73-351. SP305-6.  
 Tungsten; Decomposition; Nitric oxide; 14887. SP305-7.  
 Tungsten; Deuterium; Electron stimulated desorption; Hydrogen; Isotope effect; Probability; 14439. SP305-6.  
 Tungsten; Diffuse reflectance; Graphite; High temperature reflectance; Infrared reflectance; Integrating sphere reflectometer; Laser, reflectance; Sodium chloride coating; Synchronous amplification; Thorium; TN459. SP305-1.  
 Tungsten; Electrical resistivity; Emission; Heat capacity; High-speed measurements; High temperature; Thermal radiation properties; Thermodynamics; J.75A No. 4, 283-290 (1971). SP305-3.  
 Tungsten; Electrical resistivity; High-speed measurements; High temperature; Melting point; Thermodynamics; 12905. SP305-4.  
 Tungsten; Electrical resistivity; High temperature; Lorenz ratio; Low temperature; Standard reference materials; Thermal conductivity; Thermopower; SP260-52. SP305-7.  
 Tungsten; Electron affinity; Ion sublimation energy; Mass spectrometry; Positive and negative atomic ions; Rhenium; Self-surface ionization; 10181. SP305-1.

- Tungsten; Electron affinity; Positive and negative self-surface ionization; 9393. SP305.
- Tungsten; Electron polarization; Electron scattering; Low energy; Nickel; Single crystals; 15747. SP305-8.
- Tungsten; Electronic density of states; Fermi energy; Molybdenum; Photoemission; Tantalum; SP323, pp. 53-56. SP305-4.
- Tungsten; Electrons; Single crystal faces of tungsten; Spin-orbit split bands; 12049. SP305-3.
- Tungsten; Emission; Graphite; Iridium; Laser-source integrating sphere; Reflectance; Shallow cavity emission; Surface characterization; Thorium; 12940. SP305-4.
- Tungsten; Field ion energy distribution; Field ionization; Surface density of states; 15752. SP305-8.
- Tungsten; Fluorine; Methoxy; N.m.r.; Siloxane; Stereochemistry; Synthesis; 11630. SP305-2.
- Tungsten; Graphite; High temperature reflectance; Integrating sphere; Laser; Reflectance; Sodium chloride coating; Thorium; 10571. SP305-1.
- Tungsten; Molybdenum; Radioisotope dilution; Substoichiometric; Toluene-3,4-dithiol; 14411. SP305-6.
- Tungsten; Paramagnetic resonance spectrum; Resonance; Rutile; 9632. SP305-1.
- Tungsten; Pyrometry; Source; Temperature; 13576. SP305-5.
- Tungsten; Standard Reference Materials; Thermal expansion; 13380. SP305-5.
- Tungsten; Tungsten carbide; X-ray photoemission; Catalysis; Electronic structure; Platinum; Soft x-ray appearance potential; 15011. SP305-7.
- Tungsten; Tungsten oxides; Adsorption; Chemisorption; Corrosion; Flash desorption; Oxidation; Oxygen; 12405. SP305-4.
- Tungsten; Tungsten oxides; Adsorption; Chemisorption; Flash desorption; Oxidation; Oxygen; 14461. SP305-6.
- Tungsten; Tungsten (100) plane; Work function; Chemisorption; Flash desorption; Hydrogen; Nitrogen; 12125. SP305-3.
- Tungsten; Tunneling; Energy distribution; Field emission; Hydrogen; 12846. SP305-4.
- Tungsten; Tunneling resonance; Adsorption; Alkaline earths; Atomic energy levels; Surface; 11769. SP305-2.
- Tungsten; Ultra-high vacuum; Vacuum ultraviolet; Heating effects; Photoelectron yield; Spectral response; 11469. SP305-2.
- Tungsten; Ultraviolet photoelectron spectroscopy; Virgin CO; Adsorption; Carbon monoxide; Chemisorption; Desorption; Photoelectron spectroscopy; Photoemission; Single crystal; 15851. SP305-8.
- Tungsten; Ultraviolet photoemission; Adsorption; Chemisorption; CO; Cyclotron resonance; Electron cyclotron resonance; Magnetic field; Microwave discharge; Photoemission; 16016. SP305-8.
- Tungsten; Ultraviolet photoemission; Valence band; Virgin states;  $\alpha$  states;  $\beta$  states; Adsorption; Carbon; Carbon monoxide; Chemical bonding; Chemisorption; Density dependent transitions; Desorption; Dissociative adsorption; Electronic states; Hydrogen; Monolayers; 16419. SP305-8.
- Tungsten; Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; Diffusion; Electromigration; Europium; Grain boundary diffusion; Hydrogen; Impurity diffusion; Interdiffusion; *J. Phys. Chem. Ref. Data* 4, No. 1, 177-250 (1975). SP305-7.
- Tungsten; Vacuum ultraviolet; Anodized aluminum; Chromium; Gold; Photoelectric yield; Radiometric standards; Rare gas ionization chamber; Thermopiles; 14708. SP305-6.
- Tungsten; Vacuum ultraviolet; Oxygen adsorption; Photoelectric effect; 10800. SP305-1.
- Tungsten; Vacuum ultraviolet; Oxygen adsorption; Photoelectric effect; 10115. SP305-1.
- Tungsten; Vapor pressure; Heat of sublimation; Langmuir vaporization; Rate of vaporization; *J.77A No. 2*, 237-242 (1973). SP305-5.
- Tungsten; Vapor-deposition; Wires; Composites; Copper; Electrical conductivity; Fracture; Law of mixtures; Metallic bonding; Tensile properties; *J.74C Nos. 3 and 4*, 97-110 (1970). SP305-2.
- Tungsten; W r; Atomic spectrum, W r; Energy levels, W r; Spectrum of tungsten; *J.72A No. 6*, 757-760 (1968). SP305-1.
- Tungsten; Wavelengths; Hafnium; Levels; Spectra; 15257. SP305-7.
- Tungsten; Wavelengths; Ytterbium; Bismuth; Gold; Hafnium; Ionization energies; Iridium; Lead; Lutetium; Mercury; Osmium; Platinum; Rhenium; Tantalum; Thallium; 16420. SP305-8.
- Tungsten; Work function; Adsorption; Field emission; Methane; Physical adsorption; Single crystal; 12735. SP305-4.
- Tungsten; Work function; Adsorption; Chemisorption; Desorption; Dissociation; Field emission microscopy; Kinetic; Nitric oxide; Surface; Surface diffusion; 9421. SP305.
- Tungsten; Work function; Adsorption; Chemisorption; Desorption; Electron reflection; Electron stimulated desorption; Oxygen; Single crystal W(100); Surface; 14443. SP305-6.
- Tungsten; Work function; Adsorption; Nitrogen; Physical adsorption; 16460. SP305-8.
- Tungsten; Work function; Aluminum; Field emission; 14780. SP305-7.
- Tungsten; Work function; Binding energy; Chemisorption; Displacement; Hydrogen; Methane; Oxygen; 12736. SP305-4.
- Tungsten; Work function; Binding state; Chemisorption; Hydrogen; Isotopes; Single crystal; 11753. SP305-2.
- Tungsten; Work function; Carbon monoxide; Chemisorption; Co-adsorption; Displacement reaction; Hydrogen; Single crystal; 12261. SP305-3.
- Tungsten; Work function;  $C_2H_4$  decomposition; Chemisorption bonds; LEED; Photoelectron spectra; 14807. SP305-7.
- Tungsten; Work function; Electron energy distribution; Field emission; 15091. SP305-7.
- Tungsten; Work function; (110) plane; Energy distribution; Field emission; Patch fields; 9424. SP305.
- Tungsten; Xenon; Chemisorption; ESCA; Oxygen; Physical adsorption; 15347. SP305-7.
- Tungsten; Xenon; XPS; Carbon monoxide; Chemisorption; ESCA; Extra-atomic relaxation; Formaldehyde; Oxygen; Photoelectron spectroscopy; Physorption; 16023. SP305-8.
- Tungsten; X-ray crystallography; Clusters; Metal-metal bonding; Metal sulfides; Sulfides; 16071. SP305-8.
- Tungsten; X-ray photoelectron spectroscopy; Carbon dioxide; Carbon monoxide; Chemisorption; Formaldehyde; Oxygen; Physorption; Surface chemistry; 16085. SP305-8.
- Tungsten; (110) tungsten; Chemisorption; Desorption; Electron impact; Molecular vibration; Neutralization; Oxygen; 11370. SP305-2.
- Tungsten bronze; Crystal growth; Electrolysis; Nonstoichiometry; Reaction mechanisms; Thermodynamic; SP364, pp. 51-62. SP305-4.
- Tungsten bronze; Electrocatalysis; Fuel cells; Mixed oxides; Oxygen reduction; Phosphoric acid; Ternary metal-sulfur array; Transition elements; Triphenylphosphine; *NBSIR* 75-74; SP305-8.
- Tungsten bronze; Tungsten carbide; Electrocatalysis; Heteropolyanions; Phosphotungstate complex ion; "spillover" effect; Transition metal carbides; Transition metal oxides; SP455, pp. 167-174 (Nov. 1976). SP305-8.
- Tungsten bronzes; Auger electron spectroscopy; Electrocatalysis; Oxygen reduction; Sodium depletion; Tafel plot; SP455, pp. 297-303 (Nov. 1976). SP305-8.
- Tungsten carbide; Electrocatalysis; Heteropolyanion; Phosphotungstate complex ions; "spillover" effect; Transition metal carbides; Transition metal oxides; Tungsten bronze; SP455, pp. 167-174 (Nov. 1976). SP305-8.



ngsten carbide; Valence bonding; Voronoi polyhedra; Aluminum difluoride-cadmium diiodide structure; Bidirectional orbitals; Effective charge; ESCA; Fermi surface distortion; Madelung constant; Madelung potential; Metallic single bond radii; *SP364*, pp. 515-559. **SP305-4.**

ngsten carbide; Vanadium carbide; Carbide; Crystal structure; Molybdenum carbide; Niobium carbide; Reaction mechanism; Solid state; Tantalum carbide; *SP364*, pp. 561-566. **SP305-4.**

ngsten carbide; X-ray photoemission; Catalysis; Electronic structure; Platinum; Soft x-ray appearance potential; Tungsten; *15011*. **SP305-7.**

ngsten, first spectrum; W I; Atomic energy levels in W I; Classified lines of W I; Spectrum, W I; *J.73A No. 3*, 277-279 (1969). **SP305-1.**

ngsten hexafluoride; Chemical shifts; Fluorine NMR; Organosilanes; Organoxytungsten(VI) fluorides, *Pi*-Bonding; substituent parameters; Synthesis; *12816*. **SP305-4.**

ngsten hexafluoride; Vapor deposition; Deposition of tungsten; Hydrogen reduction; Investigation of variables; *9579*. **SP305-1.**

ngsten oxides; Adsorption; Chemisorption; Corrosion; Flash desorption; Oxidation; Oxygen; Tungsten; *12405*. **SP305-4.**

ngsten oxides; Adsorption; Chemisorption; Flash desorption; Oxidation; Oxygen; Tungsten; *14461*. **SP305-6.**

ngsten oxides; Wadsley defects; Crystallographic shear planes; Crystal structure; Electron diffraction; Electron microscopy; Lattice images; Lithium ferrites; Lithium lutetium titanate; Niobium-titanium oxides; Niobium-tungsten oxides; *SP364*, pp. 87-111. **SP305-4.**

ngsten strip lamp; Blackbody; High temperature measurement; Radiometry; Spectral radiance; Standards calibrations; *1592*. **SP305-2.**

ngsten trioxide; Crystal structure; Niobium pentoxide; Phase equilibrium; System; *J.70A4-404*, 281-303 (1966). **SP305.**

ngsten (W); Chromium; Electronic density of states; Iridium; Low-temperature specific heat; Magnetic susceptibility; Molybdenum; Niobium; Palladium (Pd); Platinum; Rhodium; Rigid band approximation; Tantalum (Ta); *SP323*, pp. 685-690. **SP305-4.**

ngsten (W); Tunneling; Zirconium; zirconium; Anderson Hamiltonian; Barium (Ba); Calcium; Chemisorption; Electron density of states; Field-emission resonance tunneling; Germanium; *SP323*, pp. 375-379. **SP305-4.**

ngsten (W); UV photoemission; Work function; Carbon contamination; Electronic density of states; Photoemission; *SP323*, pp. 199-203. **SP305-4.**

ngsten (W); W-Re; Alloys; Bcc transition metal alloys; Charging effect; Electronic density of states; Ginzburg-Landau coherence length; G.P. zone; Hf-Ta; Low-temperature specific heat; Magnetic susceptibility; Omega phase; *SP323*, pp. 587-596. **SP305-4.**

ngsten (W); Zinc (Zn); Dielectric constant; Electronic density of states; Molybdenum (Mo); Optical density of states; Optical properties; Photoemission; Reflectivity; *SP323*, pp. 209-215. **SP305-4.**

ngsten wires; CaF<sub>2</sub>; Density; Measurement technique; Si; *78A No. 1*, 9-13 (1974). **SP305-6.**

ngsten (100); Xenon; Crystal field; Photoemission; Photoemission; *15813*. **SP305-8.**

ngsten (100) plane; Work function; Chemisorption; Flash desorption; Hydrogen; Nitrogen; Tungsten; *12125*. **SP305-3.**

ngsten (111); Work function; Xenon; Desorption energy; Desorption kinetics; Physical adsorption; *15201*. **SP305-7.**

ngsten-molybdenum alloys; Homogeneity testing; Metallurgy; Microprobe analysis; NBS standards; Powder metallurgy; *11483*. **SP305-2.**

ngsten-nickel point contact diodes; Laser harmonic generator-mixer; *14536*. **SP305-6.**

Tungsten-rhenium; Vacuum; Anneal; Argon; Beryllium-oxide; Calibrations; Emf; Helium; Thermal-cycling; Thermocouple; *12425*. **SP305-4.**

Tungsten-rhenium alloys; Beryllium oxide; Drift; Microstructure; Thermal emf-temperature; Thermocouples; *14094*. **SP305-6.**

Tungsten-rhenium alloys; Beryllium oxide; Emf drift; Sheathed thermocouples; Tantalum; Temperature measurements; *14377*. **SP305-6.**

Tungsten-rhenium alloys; Beryllium oxide; Refractory metals; Sheathed thermocouples; Tantalum; Temperature measurements; Thermal emf drift; *15797*. **SP305-8.**

Tungsten(VI) halides; Alkoxy; Chlorides; Exchange reactions; Fluorides; Methoxy; Nuclear magnetic resonance; Organosilanes; Organoxo; Stereochemistry; Synthesis; *12646*. **SP305-4.**

Tungsto-heteropoly complexes; CO; Exchange coupling; Fe; Heteropoly complexes; Keggin structures; Magnetic spins; Magnetic susceptibility; Paired spins; *13024*. **SP305-4.**

Tungsto-heteropoly complexes; Co; Fe; Heteropoly complexes; Keggin structures; Magnetic spins; Magnetic susceptibility; Paired spins; *13031*. **SP305-4.**

Tuning circuit; Impedance measurement; Microwaves; Mm-waves; Reflection coefficient measurement; Tuners; *12229*. **SP305-3.**

Tuning curves; Collisions; Gas laser; Line widths; Power output; Theory; *11811*. **SP305-3.**

Tuning curves; Collisions; Gas laser; Line widths; Power output; Theory; *14327*. **SP305-6.**

Tunnel diode; Directional coupler; Picosecond; Pulse generator; Risetime; Trigger; *15653*. **SP305-7.**

Tunnel diode; Directional coupler; Fast risetime; Flat pulse baseline/topline; Pulse generator; Step waveform; *U.S. Patent 3,967,140*. **SP305-8.**

Tunnel diode; Jitter; Picosecond; Pulse generator bias supply; *11849*. **SP305-3.**

Tunnel diodes; Degradation; Gallium arsenide; Lasers; Light emission; Surface effects; *9468*. **SP305.**

Tunnel junction; GeTe; Semiconductor; Superconducting energy gap; *9409*. **SP305.**

Tunnel junction; Josephson effect; Superconductivity; Thermometry; *TN381*. **SP305-1.**

Tunnel junction; Voltage comparator; Voltage standard; Josephson effect; Standard cell; *13949*. **SP305-6.**

Tunnel junction; Voltage standard; Cryogenic resistor; Current comparator; Josephson device; Microstripline; Microwave coupling; SQUID; Superconducting switch; *15596*. **SP305-7.**

Tunnel junctions; Al-oxide-Pd; Electronic density of states; Hydrogen in palladium; Rigid-band approximation; *SP323*, pp. 737-739. **SP305-4.**

Tunnel junctions; Josephson effect; Niobium; Superconducting device; Thin films; *11407*. **SP305-2.**

Tunnel model; Velocity correlation function; Liquid diffusion; *14079*. **SP305-6.**

Tunnel test; ASTM E84; Building materials; Carpets; Fire tests; Flame spread tests; Floor coverings; Interlaboratory evaluation; Smoke measurement; *15267*. **SP305-7.**

Tunneling; Adsorption; Field emission; Surface physics; *14484*. **SP305-6.**

Tunneling; Antimony-doped silicon; Arsenic-doped silicon (As doped Si); Band absorption; Band tailing; Depletion layer barrier tunneling; Electronic density of states; Esaki diode; Gallium-arsenide (GaAs); *SP323*, pp. 693-712. **SP305-4.**

Tunneling; Attenuation length; Electron gas theory; Field emission; Surface physics; *12154*. **SP305-3.**

Tunneling; Band structure; Density of states; Field emission; Surface physics; *11311*. **SP305-2.**

Tunneling; Band structure; Disordered systems; Electronic density of states; Ion neutralization; Knight shift; Magnetic

- susceptibility; Many-body effects; Optical properties; Photoemission; Soft x-ray; Specific heat; Superconductivity; *SP323*. **SP305-4.**
- Tunneling; Chemisorption; Field emission; Ion neutralization; Photoemission; *14626*. **SP305-6.**
- Tunneling; Density of states; Low density superconductor; Semiconductor; Superconducting semiconductor; Superconductivity; *11357*. **SP305-2.**
- Tunneling; Density of states; Phonons; Semiconductors; Superconductivity; *SP323*, pp. 673-679. **SP305-4.**
- Tunneling; Density of states; Phonons; Semiconductors; Superconductivity; *J74A No. 4*, 559-565 (1970). **SP305-2.**
- Tunneling; Diffraction grating; Field emission; Micrometrology; Profile; Surface; Surface instrumentation; Surface metrology; Topography; *12919*. **SP305-4.**
- Tunneling; Electronics devices; High speed devices; Josephson effect; Superconducting devices; Superconductivity; *16485*. **SP305-8.**
- Tunneling; Energy distribution; Field emission; Hydrogen; Tungsten; *12846*. **SP305-4.**
- Tunneling; Field emission; Field ionization; Ion neutralization; Surface spectroscopy; *15095*. **SP305-7.**
- Tunneling; Field emission; Metals; Surface states; *12847*. **SP305-4.**
- Tunneling; Field emission; MVM tunneling; Surface finish; Surface physics; *12836*. **SP305-4.**
- Tunneling; Field emission; Surfaces; *13502*. **SP305-5.**
- Tunneling; Field emission; Surfaces; *12192*. **SP305-3.**
- Tunneling; Indium; Semiconductors;  $\text{SrTiO}_3$ ; Strontium titanate; Superconductivity; Surface potential barrier; *11925*. **SP305-3.**
- Tunneling; Zirconium; zirconium; Anderson Hamiltonian; Barium (Ba); Calcium; Chemisorption; Electron density of states; Field-emission resonance tunneling; Germanium; Tungsten (W); *SP323*, pp. 375-379. **SP305-4.**
- Tunneling junctions; Density of states; Elastic tunneling; *15135*. **SP305-7.**
- Tunneling resonance; Adsorption; Alkaline earths; Atomic energy levels; Surface; Tungsten; *11769*. **SP305-2.**
- Tunneling resonance; Adsorption; Energy distribution; Field emission; Surface; *11084*. **SP305-2.**
- Tunnel-junction array; Ac Josephson effect; Frequency-pulling; *14532*. **SP305-6.**
- Turbine; Vortex shedding; Angular momentum; Cryogenic; Flowmeter; Liquid nitrogen; Measurement; Positive displacement; *15043*. **SP305-7.**
- Turbine expander; Brayton cycle; Cold neutron moderator; Cryogenic refrigerator; Gas bearings; *10112*. **SP305-1.**
- Turbine flowmeters; Volume flowmeters; Cryogenic; Flow; Liquid nitrogen; Mass; Mass flowmeters; Measurement; *TN624*. **SP305-4.**
- Turbine handpiece; Amalgam; Composite materials; Dental gold alloys; Dental research; Panoramic x ray; Silicate cement; *16212*. **SP305-8.**
- Turbine mixers; Heat transfer; Liquid hydrogen; Mixing; Mixing power; Paddle mixers; Slush hydrogen; *NBSIR 73-344*. **SP305-6.**
- Turbulence; Anemometer; Hot-wire; Measurement of turbulence; *12752*. **SP305-4.**
- Turbulence; Circular cylinders; Power spectra; Pressure fluctuations; Subcritical flow; Supercritical flow; Transcritical flow; *BSS30*, pp. 87-91. **SP305-3.**
- Turbulence; Correlations; Even-order; Grid; Hot-wire anemometer; Isotropy; Nonlinear response; Odd-order; *10349*. **SP305-1.**
- Turbulence; Disk; Pressure fluctuations; Stagnation point; *TN563*. **SP305-3.**
- Turbulence; Disk; Pressure fluctuations; *14448*. **SP305-6.**
- Turbulence; Interface; Kinetics; Thermal convection; Thermal wave; Tin; *10798*. **SP305-1.**
- Turbulence; Turbulent boundary layer; Adverse pressure; Boundary layer; Near-separating flow; Skin friction near-zero; *10081*. **SP305-1.**
- Turbulence; Two-fluid hydrodynamics; Vorticity; Helium II, superfluid; Thermal conductivity; Thermal gradient; Thermal flux; *11718*. **SP305-2.**
- Turbulence; Velocity-gradients; Boundary layer; Grid; Intermittency; moments; Statistical properties; *15116*. **SP305-7.**
- Turbulence; Velocity-gradients; Computer; Correlations; Grid; Intermittency; Isotropy; Moments; Probability-distributions; *12316*. **SP305-3.**
- Turbulence; Wind effects; Wind loads; Aerodynamic forces; Atmospheric boundary layer; Structural design; *BSS30*. **SP305-3.**
- Turbulence; Wind (meteorology); Acceleration; Aerodynamics; Building (codes); Deflection; Dynamic structural analysis; Pressure; Spectra; Structural engineering; Tall buildings; *14534*. **SP305-6.**
- Turbulence; Wind observations; Wind profiles; Climatology; Meteorology; Spatial correlation; *BSS30*, pp. 23-25. **SP305-3.**
- Turbulence; Wind profiles; Atmospheric boundary layer; Gust factors; Peak values; Power spectra; *BSS30*, pp. 27-41. **SP305-3.**
- Turbulence; Wind tunnel; Computer; Correlations; Even-order, odd-order, space-time; Hot-wire anemometer; Taylor's approximation; *9730*. **SP305-1.**
- Turbulence in stars; Abundances of elements in stars; Ba n stars ( $\zeta$  Capricorni); Curve of growth; Equivalent widths; Identification of spectral lines; Ionization in stars; Oscillator strengths; Temperature in stars; *Monogr. 119*. **SP305-3.**
- Turbulent; Airfoil theory; Boundary layer; Drag; Heat transfer; Laminar; Lift; Skin friction; Subsonic; Supersonic; Transition; *12786*. **SP305-4.**
- Turbulent boundary layer; Adverse pressure; Boundary layer; Near-separating flow; Skin friction near-zero; Turbulence; *10081*. **SP305-1.**
- Turbulent field; Acoustic noise; Air or water flow; Atmospheric and oceanographic turbulence; Boundary layer turbulence; Higher-order correlations; Physical origin; Random processes of physical origin; *9729*. **SP305-1.**
- Turbulent flow; Buoyancy; Channels; Film boiling; Forced convection; Helium I; Helium II; Mixed convection; Nucleate boiling; Subcritical; Supercritical; Transition; *TN675*. **SP305-8.**
- Turkey; AID; Assistance; Economics; LDC's (less developed countries); Measurement services; Standardization; Survey *13476*. **SP305-5.**
- Turning points; Approximation; Asymptotics; Asymptotic theory; Error analysis; Ordinary differential equations; *15414*. **SP305-7.**
- Turning points; Uniform asymptotic approximations; Weber's equation; Error bounds; Parabolic cylinder functions; *J. Res. 80B No. 4*, 437-440 (1976). **SP305-8.**
- Turning points; Wave scattering; Weber functions; Asymptotic approximations; Connection formulas; Error bounds; Ordinary differential equations; Parabolic cylinder functions; *14946*. **SP305-7.**
- Turning points; Weber functions; Asymptotic approximations; Error bounds; Legendre functions; Parabolic cylinder functions; *14947*. **SP305-7.**
- Turning points; Whittaker functions; Asymptotic analysis; Darboux's method; Definite integrals; Hypergeometric functions; Incomplete gamma function; Legendre functions; Ordinary differential equations; Saddle points; Special functions; *15818*. **SP305-8.**
- Turning-point; Viscous flow; Weber's equation; Boundary-value problem; Eigenvalues; Parabolic cylinder functions; Resonance; Rotating disks; Singular perturbations; *16451*. **SP305-8.**

coat; Comfort; Fire coat; Firefighting; Impact protection statistics; Protective clothing; Thermal conditions; **SP305-6.**

coats; Bunker coats; Fabric flammability; Firefighter; Fireman; Flame resistance; **12470. SP305-4.**

junction; Millimeter waves; Polarizers; Quasi-optics; Selection; **11744. SP305-2.**

Microwave; Attenuation; Measurements; Standards; **97. SP305.**

salts; Chromates; Langbeinites; Lattice constants; **J.75A, No. 5, 435-439 (1971). SP305-3.**

subcarrier; 60-Hz power line; Atomic clock; Frequency; Frequency stability; Optical pulsars; Remote comparisons; Simultaneous reception; Time dissemination; Time stability; Time synchronization; Time transfer; **SP305-4.**

dissemination; TV timing system; Clocks; NBS TV timing system; **12632. SP305-4.**

Allan variance; Cesium beam standards; Frequency; Frequency standards; Loran-C; Portable clocks; Dispersion; Time synchronization; **12973. SP305-4.**

Cesium beam standards; Frequency standards; C; Portable clocks; Time synchronization; **14269. SP305-6.**

USNO time scale; Atomic clock comparisons; Clock comparisons; Loran-C; NBS time scale; Portable clocks; Synchronization; **12584. SP305-4.**

VLF timing; Atomic beams; Atomic clocks; Atomic standards; Atomic time; Clock synchronization; Coordinated dissemination of frequency and time; Flicker noise; Frequency and time standards; Frequency measurement; **Volume 5. SP305-4.**

Timing system; Clocks; NBS TV timing; Time system; TV dissemination; **12632. SP305-4.**

Digital code; Integrated circuit chip; Program caption; Television; Time and frequency dissemination; **13738. SP305-5.**

scattered; Angular distribution; Gamma radiation; Rhythmic divergences; Point isotropic; Small-angle limit; **SP305-1.**

Wedge; Crystal; Disclination; Dislocation; Pseudopenetration; Stacking fault; **15767. SP305-8.**

Electrode balancing; Anodic stripping voltammetry; Ground current compensation; Differential anodic stripping voltammetry; Electrochemical analysis; **SP422, pp. 97 (Aug. 1976). SP305-8.**

Growth; Twinning; Twin plane reentrant edge; X-ray diffraction; Electrodeposition; Molybdenum dendrites; **10732. SP305-1.**

Plaquity and twinning; Coincidence-site lattices; Determination of twin laws; Equivalence of twin laws; Lattices; Stacked crystal growths; **14416. SP305-6.**

Twin plane reentrant edge; X-ray diffraction; Electrodeposition; Molybdenum dendrites; Twin growth; Twinning; **10732. SP305-1.**

Structure; Zinc selenide; CO<sub>2</sub> pulsed laser damage; Damage threshold; Laser windows; **SP414, pp. 85-92. SP305-8.**

Polishing; Abrasion; Alumina; Annealing; Dislocations; Electron microscopy; Indentation; Plastic deformation; Surface roughness; Transmission electron microscopy; **12498. SP305-4.**

Aluminum oxide; Microhardness; Plastic deformation; Slip; Transmission electron microscopy; **15825. SP305-8.**

Benzene II; High-pressure; Single-crystal; Structure determination; **11422. SP305-2.**

Computer calculations; Crystal structure; Epitaxy; Lattice misfit; Pattern recognition; **TN893. SP305-8.**

Twinning; Conference; Continuum mechanics; Crystal physics, disclinations; Dislocations; Elasticity; Electron-dislocation interactions; Lattice defects; Phonon-dislocation interactions; Solid-state; Theoretical physics; Thermally activated processes; **SP317. SP305-3.**

Twinning; Crystal imperfections; Electron diffraction crystallography; Iron alloys; Nickel alloys; Phase transformations/solid-state; **12913. SP305-4.**

Twinning; Crystal structure; Differential thermal analysis; Lithium; Lithium phosphate; **9831. SP305-1.**

Twinning; Crystal structure; Hydroxyapatite; Single crystal x-ray diffraction; Structural relationships; Tetracalcium phosphate; **14263. SP305-6.**

Twinning; Crystallography; Gold-cadmium alloy; Martensite; Phase transformation; **12006. SP305-3.**

Twinning; Dislocations; Grain boundaries; Interfaces; **SP317, pp. 465-477. SP305-3.**

Twinning; Electron diffraction crystallography; **12609. SP305-4.**

Twinning; Flame polishing; Glass; Rutile; Sapphire; Spinel; Strength; Surface characterization; **SP348, pp. 237-244. SP305-4.**

Twinning; Twin plane reentrant edge; X-ray diffraction; Electrodeposition; Molybdenum dendrites; Twin growth; **10732. SP305-1.**

Twinning; Unit cell dimensions; Cleavage; Compilation; Crystal; Crystal habit; Crystal space group; Crystal structure types; Density; Determination; Identification; Minerals; Optical properties; **15084. SP305-7.**

Twinning; Vanadium oxide; X rays; Chromium doping; Metal-insulator transitions; **14415. SP305-6.**

Twinning; X-ray diffraction; Dendrites; Electrocrystallization; Faceting; Silver; **10605. SP305-1.**

Twinning; Zonal dislocations; Dislocation geometry; **SP317, pp. 479-493. SP305-3.**

Twinning; Zonal dislocations; Dislocation dissociation; Lattice shuffling; Partial dislocations; **SP317, pp. 495-529. SP305-3.**

Twins; Carbides; Glass, ion beam sputtering; Nitrides; Oxides; RF sputtering; Strength; Surface finish; **SP348, pp. 171-187. SP305-4.**

Twist; Children; Children's strength; Pull; Push; Safety; Strength; Squeeze; Test methods; Toys; Toy safety; **13595. SP305-5.**

Twist; Volterra; Wedge; Disclination; Dislocation; Glide; Plasticity; **13271. SP305-5.**

Two dimensional; Cross section; Sensitivity; Shield; **SP425, pp. 459-463. SP305-7.**

Two dimensional classical membrane; Diffusion equation; Electronic density of states; "muffin-tin" potential; Small particles; **SP323, pp. 473-475. SP305-4.**

Two electron excitation; Absorption spectroscopy; Autoionization; Configuration interaction; K electron excitation; Lithium vapor; **12034. SP305-3.**

Two electron processes; X-ray L<sub>23</sub> emission; Argon; Configuration interaction; KCl; Radiative process; **12692. SP305-4.**

Two fluid; Dielectric constant; Dissipation factor; Electrical measurements; FEP fluorocarbon; Polyethylene terephthalate; Thin films; **12703. SP305-4.**

Two phase choking; Two phase flow; Binary mixture; Cavitating venturi; Enhancement factors; Experimental vapor-liquid equilibria; Flow induced desorption; Helium-carbon monoxide system; Helium-nitrogen oxide system; Henry's law constants; **NBSIR 75-806. SP305-7.**

Two phase flow; Binary mixture; Cavitating venturi; Enhancement factors; Experimental vapor-liquid equilibria; Flow induced desorption; Helium-carbon monoxide system; Helium-nitrogen oxide system; Henry's law constants; Two phase choking; **NBSIR 75-806. SP305-7.**

- Two phase flow; Compressibility flow; Cryogenics; Fluid dynamics; Pressure drop; Superfluid helium; 16642. SP305-8.
- Two phase flow; Computer modeling; Cooldown; Cryogenic flow; Stresses; *NBSIR 75-820*. SP305-7.
- Two phase materials; Upper and lower bounds; Composite materials; Effective conductivity; Transport coefficients; 10884. SP305-2.
- Two relaxation model; Viscosity; Activation energy; Annealing; Germania glass; Index of refraction; Relaxation times; Thermal expansion; *J72A No. 4*, 425-433 (1968). SP305-1.
- Two segments; Distribution; Gyration; Polymer; Radius; 11947. SP305-3.
- Two-antenna method; Antenna range design; Field strength; Gain corrections; High accuracy gain measurements; Horn antennas; Multi-path interference; 9590. SP305-1.
- Two-beam; Coherence; Interferometers; Lasers; Light sources; Multiple-beam; 11224. SP305-2.
- Two-body recombination rates; Bates mechanism; Feshbach-type resonance states; Inverse predissociation; Molecule formation; Non-adiabatic interactions; Radiative association; 14647. SP305-6.
- Two-channel; Attenuation; Microwave; Off-null technique; Small attenuation changes; 11410. SP305-2.
- Two-component flow; Two-phase flow; Venturi flow; Critical flow; Droplet flow; Liquid film flow; Transport coefficients; 12912. SP305-4.
- Two-component system; Chemical microstandards; Correlation coefficient; Indirect variability estimation; Stoichiometry; 11576. SP305-2.
- Two-Component Torus (TCT); Advanced fusion fuels; Doppler effect; Fusion cross sections; Fusion energy multiplication; Fusion reactivities; *SP425*, pp. 716-721. SP305-7.
- Two-connected graphs; Blocks; Combinatorics; Examples of graphs; Graph theory; Minimal blocks; Planar graphs; Thickness of graphs; *J77B Nos. 1 and 2*, 53-60 (1973). SP305-5.
- Two-crystal x-ray instrument; X-ray instrument; Crystal x-ray instrument; Single axis; 9666. SP305-1.
- Two-dimensional; Stability; Transition; Boundary layer; Roughness; 12807. SP305-4.
- Two-dimensional ferromagnet; Ising ferromagnet; Molecular field approximation; Pair correlation function; Three-dimensional ferromagnet; 11166. SP305-2.
- Two-dimensional flow; Flow with longitudinal gradient; Flow with transverse gradient; Optical anemometry; Optical birefringence; Optical excess tensor; Optical mapping of flow; Stress excess tensor; 15775. SP305-8.
- Two-dimensional languages; Chinese characters; Grammar; Generative grammar; Component combination; Phrase structure grammar; Linguistics; Frame embedding; *TN296*. SP305.
- Two-dimensional lattice dynamics; Energy calculations; Grüneisen parameter; Lattice stability; Shock wave propagation; Thermal oscillations; 11165. SP305-2.
- Two-electron excitations; Absorption spectrum; Barium; Heat pipe; Inner shell excitation; Shape resonance; 14989. SP305-7.
- Two-factor data; Analysis of variance; Data structure; Principal components; 13018. SP305-4.
- Two-fluid hydrodynamics; Vorticity; Helium II, superfluid; Thermal conductivity; Thermal gradient; Thermal flux; Turbulence; 11718. SP305-2.
- Two-fluid model; BCS theory; Superconductive lines; Time and frequency response; 11374. SP305-2.
- Two-fluid model; Excess neutrons; Isospin; Nuclear charge distribution; Nuclear structure; Three-fluid model; 12114. SP305-3.
- Two-knife; Arrestment; Balance; Beam; Buoyant; Case; Constant-load; Equilibrium; Knife; One-pan; Short arm; *J76C Nos. 1 and 2*, 1-10 (1972). SP305-4.
- Two-layer slabs; Depth-dose; Dose distribution; Dosimetry; film; Electron beams; Film dosimeter; Interfaces; M. Carlo; Radiochromic dyes; 13212. SP305-5.
- Two-layer slabs; Dose transmission; Gamma-rays; Invariant bedding; Penetration; Transport theory; 10787. SP305-1.
- Two-method optimization; Data support; Fixed calibration interval; Instrument reliability; Statistical validity; *SP335* 73-79. SP305-3.
- Two-pair admittances; Ac DRRS; Coaxial cable effects; Co star connectors; Extrapolation techniques; Four-pair admittances; Permutation techniques; Precision admittance standards; Precision capacitance measurements; Transfo bridges; Transformer ratio measurements; 14924. SP305.
- Two-particle reactions; Configuration interaction; Continuum states; Nuclear reactions; Nuclear structure; Sequence decays; 9657. SP305-1.
- Two-particle two-hole states; Giant resonance; Intermediate structure; Nuclear structure; Particle-hole model; Q bound states; 15097. SP305-7.
- Two-phase; Boundary layer; Computation; Dispersed flow; transfer; Solid-vapor; 11517. SP305-2.
- Two-phase; Boundary layer; Cryogenic; Heat transfer; Hydrogen; Low pressure; Nitrogen; Particle-wall interaction; Solid-vapor; Tube; 11505. SP305-2.
- Two-phase; Fluorine; Liquid-vapor coexistence; Saturated liquid; Saturation; Specific heats; Thermodynamic properties; *J74A No. 4*, 499-505 (1970). SP305-2.
- Two-phase flow; Analyses; Analytical models; Choking; Critical flow; Cryogenic fluids; Helium; Hydrogen; Oxygen; Reviews; *TN633*. SP305-5.
- Two-phase flow; Choking; Critical; Hydrogen; Nitrogen; 11517. SP305-2.
- Two-phase flow; Choking; Hydrogen; Nitrogen; Shocks; *TN* SP305-1.
- Two-phase flow; Venturi flow; Critical flow; Droplet flow; Liquid film flow; Transport coefficients; Two-component flow; 12912. SP305-4.
- Two-phase flow; Zero gravity; Boiling heat transfer; Bubble dynamics; Cavitation; Condensing heat transfer; Correlated cryogenic fluid safety; Fluid dynamics; Fluid transfer; Heat transfer; Heat transfer equipment; Liquid helium; Liquid hydrogen; 13242. SP305-5.
- Two-phase flow pickups; Cryogenics; Dimensional analysis; Heat transfer; Hydrogen; Low pressure; Solid-vapor; *TN* 9814. SP305-1.
- Two-photon absorption; Damage thresholds; Electrical avalanche; Picosecond pulses; Refractory oxides; Standing wave fields; Thin films; *SP462*, pp. 292-300 (Dec. 1974). SP305-8.
- Two-photon absorption; Nonlinear index of refraction; Optical distortion; Thermal fracture; *SP435*, pp. 395-405 (1976). SP305-8.
- Two-photon absorption coefficients; Multiphoton processes; Nonlinear absorption; Nonlinear optical properties; Semiconductor optical properties; *SP435*, pp. 369-388 (Apr. 1976). SP305-8.
- Two-photon ionization; Atomic calculations; Nonlinear optical phenomenon; 9323. SP305.
- Two-point binomial; Variance; Distribution; Parameter; Probabilities; Random sample; 10987. SP305-2.
- Two-port; Efficiency; Loss; Reflectometer; Sliding short; *TN644*. SP305-5.
- Two-port; Measurement; Microwave; Network; Nonreciprocal scattering parameters; 10815. SP305-1.
- Two-port standards; Impedance measurement; Radio frequency; Series elements; *J74C Nos. 3 and 4*, 79-85 (1975). SP305-2.
- Two-ports; Automatic network analyzer; Q cavity; 15097. SP305-8.



relaxation time model; Volume relaxation; Annealing; Silicate crown glass; Glass; Index of refraction; Relaxations; *J71A3-456, 231-238 (1967)*. SP305.

error model; Activation energy; Chain twisting; Hindered error; Parabolic potential model; Sinusoidal potential model; *10451. SP305-1.*

ole model; Mechanical relaxation; Methyl branches; Tins; Polyethylene; Potential energy calculations; Relaxation length; *14752. SP305-7.*

age transformer; Voltage ratio; Current ratio; Leakage inductance; Magnetizing impedance; Ratio error; Single-stage transformer; *14493. SP305-6.*

age transformers; Ac bridges; Bridges; Platinum thermometers; Resistance measurements; Thermometry; *16404. SP305-8.*

age voltage transformer; Voltage divider; Voltage ratio; Inductance; In-phase deviation; Inductive voltage divider; Measurements; Quadrature deviation; Ratio calibration; Transformer; *J72C No. 1, 49-59 (1968)*. SP305-1.

ate model; Free volume; Structure of  $B_2O_3$ ; *9914. SP305-1.*

ream; Velocity distribution; Vlasov equation; Electron transport; Non-linear; Numerical; Selective harmonic excitation; *J73B No. 4, 293-300 (1969)*. SP305-1.

ream instability threshold; Damage threshold of GaAs; Graded Shockley avalanche; Pulsed laser damage; Semiconductor infrared windows; Solid state plasma; *J414. SP305-6.*

terminal capacitor; Capacitance measurement; Coaxial connector; Coaxial connector; Fringe capacitance; Standard capacitor; *J74C Nos. 3 and 4, 111-116 (1970)*. SP305-2.

be electrostatic lens; Calculation of electric fields; Calculation of electron trajectories; Electron lens; Nine-point calculation formulas; Predictor-corrector method; *J76A No. 3-35 (1972)*. SP305-4.

be electrostatic lens; Electric field; First-order focal properties; Paraxial electron trajectories; *P-Q* curves; *12665. SP305-4.*

be electrostatic lens; Fifth-order aberration coefficients; Aberration coefficients; Meridional electron trajectories; Third-order aberration coefficients; *12651. SP305-4.*

be electrostatic lens; Ultra-focal refraction; Electron trajectories; Focal properties; *P-Q* curves; *14200. SP305-6.*

be electrostatic lens; Weak lenses; Focal properties; Six elements; Paraxial; Strong lenses; *14151. SP305-6.*

be electrostatic lens; Weak lenses; Focal properties; Unity voltage ratios; Object-image curves; Paraxial; *1410. SP305-6.*

be electrostatic lens; Weak lenses; Aberration integrals; Optic aberration coefficients; Electron lenses; Strong lenses; Third-order aberration coefficients; *14817. SP305-7.*

be lens; Aberration integrals; Asymptotic aberration coefficients; Electron optics; Electrostatic lens; Third-order aberration coefficients; *14974. SP305-7.*

ay arrays; Factorial experiments; Interaction; Nonadditivity; Principal components; Surface fitting; *12109. SP305-1.*

ay structural analysis; Calibration of thermometers; Low-temperature calibration of thermometers; Platinum resistance thermometers; Resistance thermometers; *15309. SP305-7.*

ay table; Vacuum cleaner; Analysis of variance; Covariance matrix; Eigenvalues; Interaction; Matrix; Residuals; *J41 No. 3, 149-154 (1970)*. SP305-2.

ay tables; Analysis of variance; Interaction; Principal components; Structure; *13629. SP305-5.*

ay tables; Curve fitting; Data analysis; Empirical fitting curves and surfaces; Model, mathematical; Response surface; Surface fitting; *11380. SP305-2.*

Two-way television; Wired city; Wired nation; Broadband interactive terminals; Cable television uses; Checkless society; Computer/communications networks; Computer/communications services; Computer/communications standards; Interactive cable television; *NBS-GCR-75-44. SP305-8.*

Type; Abstract data types; Class; Cluster; Data abstraction; Data type; Module; Programming methods; Program modifications; *16246. SP305-8.*

Type faces; Typography; Visibility; Alphanumeric characters; Displays; Handbook; Human factors; Legibility; Psychology; Readability; Standards; Symbols; *M262-2. SP305.*

Type fonts; Typesetting; Vectorized characters; Alphabets; COM; Computerized typesetting; Digital plotting; Graphics; Hershey character set; Plotting; *SP424. SP305-8.*

Type I distribution; Bias; Efficiency; Extreme values; Linear unbiased estimators; Simplified estimators; Statistics; *NBSIR 75-637. SP305-7.*

Type I distribution; Distribution of largest values; Efficient estimators; Extreme values; Linear unbiased estimators; Statistics; *NBSIR 74-602. SP305-7.*

Type II diamond windows; Diamond absorption coefficient; Laser window heating; Laser window testing; *SP435, pp. 175-188 (Apr. 1976)*. SP305-8.

Type II superconducting films; Vortex coupling; Dc transformer; Granular aluminum films; Magnetic coupling; Superconducting dc transformer; *15361. SP305-7.*

Type II superconducting films; Vortex pinning; Critical current densities; Critical currents; Granular aluminum films; Granular films; *15520. SP305-7.*

Types; Capability; Capability-based addressing; Computer security; Extended-type objects; Operating system structures; Protection; Reliable software; Reliability; Security; Small protection domains; *TN919. SP305-8.*

Typesetting; Automation; Computers; Photocomposition; Printing; Publication; *9591. SP305-1.*

Typesetting; Vectorized characters; Alphabets; COM; Computerized typesetting; Digital plotting; Graphics; Hershey character set; Plotting; Type fonts; *SP424. SP305-8.*

Typesetting of tables; Automatic typesetting; Computer-assisted typesetting; Edit insertion program; FORTRAN program; Phototypesetting of spectroscopic tables; *TN740. SP305-5.*

Typhoon; Wind; Wind intensities; Cloud seeding; Frequency distribution; Hurricanes; *SP444, pp. I-21-I-33 (Apr. 1976)*. SP305-8.

Typhoons; Construction; Design; Developing countries; Earthquakes; Low-cost housing; Natural disasters; Philippines; Socioeconomic aspects; *NBS-GCR-73-21. SP305-8.*

Typhoons; Wind loads; Buildings; Codes and standards; Housing; Hurricanes; Low-rise buildings; Natural disaster; Structural connections; *NBSIR 75-790. SP305-8.*

Typography; Visibility; Alphanumeric characters; Displays; Handbook; Human factors; Legibility; Psychology; Readability; Standards; Symbols; Type faces; *M262-2. SP305.*

Tyro coders; Achievements of automators; Automators; Electronic machines; Failings of automators; Human mind; *10775. SP305-1.*

T<sub>1</sub>; Analyzer; Cryogenics; Hydrogen; Instrument; Instrumentation; Liquefier; Liquid hydrogen; Measurement; Nuclear spin relaxation time; Ortho-para; Relaxation time; *9486. SP305.*

T<sub>1</sub>; T<sub>2</sub>; <sup>13</sup>C relaxation; Chemical shift anisotropy; Dipole-dipole; Scalar relaxation; Spin-rotation; *12592. SP305-4.*

T<sub>2</sub>; <sup>13</sup>C relaxation; Chemical shift anisotropy; Dipole-dipole; Scalar relaxation; Spin-rotation; T<sub>1</sub>; *12592. SP305-4.*

- U; Fast neutrons; Pb; Scattering; Small angles; *SP425*, pp. 948-949. **SP305-7.**
- U;  $^{238}\text{U}(n,f)$ ; Calculated  $\langle\sigma_f\rangle$ ; Deduced channel spectrum;  $E = 3-5$  MeV; Fission; Nuclear reactions; Pu isotopes; *SP425*, pp. 129-138. **SP305-7.**
- U;  $5f$  electron; Actinium; Excitation energy; *16581*. **SP305-8.**
- U centers;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ;  $\text{CdF}_2$ ; Ionic polarization; KCl; Mollwo-Ivey relations; NaCl; Point-ion potential;  $\text{SrF}_2$ ; *13963*. **SP305-6.**
- U centers;  $\text{BaF}_2$ ;  $\text{CaF}_2$ ; Ionic polarization; KCl; Mollwo-Ivey relations; NaCl; Point-ion potential;  $\text{SrF}_2$ ; *J.77A No. 5*, 659-665 (1973). **SP305-5.**
- U; I; U; II; Wall-stabilized arc; Flow-stabilized arc; Oscillator strength; *15066*. **SP305-7.**
- U; I; Uranium; Atomic beam; Delayed coincidence; Imprisonment; Lifetime; Mean life; Resonance radiation; Transition probability; *16322*. **SP305-8.**
- U; I; Uranium; Delayed coincidence;  $f$  value; Imprisonment; Lifetime; Mean life; Resonance radiation; Transition probability; *15058*. **SP305-7.**
- U; II; Wall-stabilized arc; Flow-stabilized arc; Oscillator strength; U; I; *15066*. **SP305-7.**
- U. S. Customary System; Weights and measures; Weights and measures abbreviations; Weights and measures systems; Weights and measures units; Conversion tables; International System (SI); Metric System; *M286*. **SP305.**
- $\Theta$  solvent; Adsorption; Chain; Concentration; Interface; Isotherm; Polymer; Polystyrene; Segment; *9786*. **SP305-1.**
- U-centers; Alkali halide crystal; Born-Mayer potential; Deformation dipole model; Effective force constants; Isotopic impurities; Local mode frequencies; Nearest-neighbor interaction; Substitutional impurity; *9354*. **SP305.**
- $\Theta$ -doublet transitions; Microwave spectra; Molecular structure; OCS; Spectra; Spectroscopy; Carbonyl sulfide; Energy levels; *9919*. **SP305-1.**
- $\theta = 90^\circ, 75^\circ, 55^\circ, 35^\circ$ ;  $E_\pi = 8.5, 10.0, 12.2, 14.2$  MeV;  $\text{Fe}(n,\gamma)$ ; Measured  $\sigma(\theta)$  for  $E_\gamma = 0.847$  MeV; Nuclear reactions; *SP425*, pp. 813-815. **SP305-7.**
- UHF; Clocks; Delay; Ranging measurements; Satellites; Synchronization; Timing; *12536*. **SP305-4.**
- UHF; Impedance measurement; Microwave; Quarter wave; Reflection coefficient measurement; Standing wave machine; *10389*. **SP305-1.**
- UHF; Uncertainties; Measurements; Microwave; Phase shift; Standards; *9697*. **SP305-1.**
- UHF; VHF; Avalanche transistor; Frequency calibration; Impulse; Picosecond; Spectral intensity; *12785*. **SP305-4.**
- UHF marginal oscillator; Density, magnetic flux; Flux density; Magnetic flux density; Marginal oscillator; Oscillator, marginal; *10035*. **SP305-1.**
- UHF transistor measurement; Active devices; Hot spots; Laser scanning; Logic flow observation; LSI testing; Nondestructive test; Nonlinearity measurement; *15781*. **SP305-8.**
- UHF transistor measurements; Device nonlinearity measurements; Hot spots, transistor; Laser scanning; Nondestructive tests; Semiconductor devices; *16571*. **SP305-8.**
- UK; USA; Fire propagation test; Fire tests; Smoke density chamber; Smoke tests; Test comparison; *16125*. **SP305-8.**
- $\theta_{\text{lab}} = 20$  to  $150^\circ$ ;  $E = 2$  to  $5$  MeV; Measured  $p(E,\theta)$  absolutely for  $^{13}\text{C}(n,n)$  reaction then determined  $A(E,\theta)$  for other reactions; Nuclear reactions  $^4\text{He}(n,n)$ ; *SP425*, pp. 875-878. **SP305-7.**
- $\theta_{\text{lab}} = 20$  to  $160^\circ$ ;  $E = 0.3-3.0$  MeV; Nuclear reaction  $^{238}\text{U}(n,n)$  and  $^{238}\text{U}(n,n')$ ;  $\sigma(E)$ ; *SP425*, pp. 862-865. **SP305-7.**
- U-linked sequences; Co-convergent; Contra-convergent; Nagata spaces; Open neighborhood assignments; Stratifiable spaces; *J.79B Nos. 1 and 2*, 63-64 (1975). **SP305-7.**
- U-linked sequences; Co-convergent; Contra-convergent; Nagata spaces; Open neighborhood assignments; Stratifiable spaces; *J.79B Nos. 3 and 4*, 103-105 (1975). **SP305-7.**
- Ultimate elongation; Creep; Modulus; Rubber, natural; Temperature; Tensile strength; *12944*. **SP305-4.**
- Ultimate strength; Bending moments; Building codes; Columns (supports); Frames; Long columns; Reinforced concrete; Slenderness ratio; Strength; Structural analysis; Structural design; *16412*. **SP305-8.**
- Ultimate strength; Brittle material; Cleavage; Deformation; Fracture; Hydrogen embrittlement; Mechanical properties; Stress corrosion; *14476*. **SP305-6.**
- Ultimate strength; Glassy state; Low temperature; Mechanical properties; Modulus; Neoprene; Rubber; Tensile strength; *10777*. **SP305-1.**
- Ultimate tensile stress; Yield stress; Hydrogen-purified iron; Luder's strain; Polycrystalline iron; Tensile properties; *10777*. **SP305-1.**
- Ultra high vacuum; W-Re alloys; EMF-temperature relationship; Furnace; High temperature; Refractory metals; Thermocouple; Thermoelements; Sensor; *J.75C No. 2*, 99 (1971). **SP305-3.**
- Ultra low frequency; Bridge; Dielectrics; Dielectric measurements; Dielectric phenomena; Electrical measurements; Low frequency; Measurements; Operational amplifiers; *10777*. **SP305-1.**
- Ultra pure reagents; Gas chromatography; Infrared analysis; exchange; Liquid chromatography; Purification; Separation; Styrene/divinylbenzene; *TN509*. **SP305-2.**
- Ultracentrifugation; Equilibrium sedimentation; Lamm equation; Rotor deceleration; *10509*. **SP305-1.**
- Ultracentrifugation; Lamm equation; Molecular weight; Nonequilibrium solutions; Rotor slowing; Sedimentation equilibrium; *10508*. **SP305-1.**
- Ultraclean; Vacuum; Anti-migration traps; Cold storage; Contamination; Environment; Ion pumping; Low pressure; Low temperature; Pumping; *SP336*, pp. 661-668. **SP305-3.**
- Ultra-focal refraction; Electron trajectories; Focal properties; P-Q curves; Two-tube electrostatic lens; *14200*. **SP305-6.**
- Ultrahigh resolution; Laser spectroscopy; Methane; Molecular hyperfine spectra; Saturated absorption spectroscopy; *14635*. **SP305-6.**
- Ultrahigh strength; Alloy steels; Austempered steels; Cold-drawn steels; Dispersion hardened alloys; Fiber and whisker reinforced materials; Maraging steels; Refractory alloys; Stainless steels; Strengthening mechanisms; Superalloys; Titanium alloys; *12789*. **SP305-4.**
- Ultra-high vacuum; Corrosion; Ellipsometry; Field-electron emission microscopy; Low-energy diffraction; NBS corrosion measurements; Passivity; *9890*. **SP305-1.**
- Ultrahigh vacuum; Adhesion; Basalt; Fiberglass; Friction; Surface; Titanium; *SP336*, pp. 225-244. **SP305-3.**
- Ultrahigh vacuum; Anisotropy; Compression tests; Mass spectrometry; Mechanical properties; Outgassing; Pressure measurements; Rock mechanics; Space environment simulation; *SP336*, pp. 209-223. **SP305-3.**
- Ultrahigh vacuum; Ultraviolet source; High resolution electron energy analyzer; Photoelectron spectroscopy; Photoemission from solids and chemisorbed gases; *12519*. **SP305-4.**
- Ultra-high vacuum; Vacuum ultraviolet; Heating effects; Photoelectron yield; Spectral response; Tungsten; *11422*. **SP305-2.**
- Ultra-high vacuum; Water vapor; Work function; Adsorption; Hydrogen evolution; Polycrystalline tungsten; Room temperature; *11563*. **SP305-2.**
- Ultrahigh vacuum systems; Charge exchange; Chemical neutralization; Ion optics; Mass separators; Proton source; Solar wind; Sputtering; *SP336*, pp. 261-277. **SP305-3.**
- Ultra-intense laser radiation; Atoms; Free-free absorption; *14022*. **SP305-6.**

tra-low frequency; Bridge; Dielectric measurements; Dielectrics; Electrical measurements; Low frequency; Measurements, dielectric; Measurements, electrical; 9772. **SP305-1.**

tra-pure reagents; Urea; Uric acid; Analytical distillation; Clinical standards; Crystallization; Divinylbenzene; EDTA; Ion exchange resins; Microstandards; Particulate matter; Reagents; Resin structure; *TN459. SP305-1.*

trapurification; Analytical blanks; Analytical reagents; Contamination control; High-purity reagents; Membrane filtration; Mercury cathode electrolysis; Prepurification; Purity definition; Reagent contamination; *SP422*, pp. 363-375 (Aug. 1976). **SP305-8.**

trasonic; Interferometer; Phase locked loop; Tracking; *SP040. SP305-7.*

trasonic; Nuclear spin; *10730. SP305-1.*

trasonic; Vacuum; Boron nitride; Ceramic; Metallizing; *1883. SP305-3.*

trasonic; Velocity; Absorption; Attenuation; Brain; Neoplasm; TAST; Thermal effects; Tissue; Tumor; *SP453*, pp. 153-163 (Oct. 1976). **SP305-8.**

trasonic attenuation; Antiferromagnetic insulators; Correlation function; Ferromagnetic insulators; Heisenberg; Néel point; *10418. SP305-1.*

trasonic attenuation; Antiferromagnet; Critical fluctuations; Ferromagnet; Gd; Heisenberg magnet;  $MnF_2$ ;  $RbMnF_3$ ; *1253. SP305-2.*

trasonic attenuation; Frequency shift; Heisenberg paramagnet; Specific heat; Spin-diffusion; Susceptibility; *12265. SP305-3.*

trasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Infrared response; *TN717. SP305-4.*

trasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Methods of measurement; *TN702. SP305-3.*

trasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; Methods of measurement; *TN560. SP305-3.*

trasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; *TN571. SP305-3.*

trasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; *TN592. SP305-3.*

trasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Methods of measurement; *TN598. SP305-3.*

trasonic bonder; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; Gold-doped silicon; Metallization; Methods of measurement; Microelectronics; *TN527. SP305-2.*

trasonic bonder; Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; Methods of measurement; *TN555. SP305-2.*

Ultrasonic bonding; Voltage contrast mode; Wire bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; Epitaxial layer thickness; Flying-spot scanner; Gold-doped silicon; Hermeticity; Measurement methods; Microelectronics; *SP400-8. SP305-7.*

Ultrasonic bonding; Wire bond; Aluminum wire; Bonding; Fabrication (wire bonds); Microelectronics; Ribbon wire; Round wire; Testing (wire bond); *TN767. SP305-5.*

Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; Integrated circuits; Microelectronics; Reliability; *TN726. SP305-4.*

Ultrasonic bonding; Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; Integrated circuits; Microelectronics; Reliability; Semiconductor devices; *SP400-2. SP305-6.*

Ultrasonic bonding; Wire bonds; Bond angle; Bonding; Bond pull test; Bond-to-bond spacing; Large wire; Loop height; Microelectronics; Nondestructive bond pull test; Position of hook; Pull rate; Pull strength; Resolution-of-forces; Semiconductor devices; *SP400-18. SP305-8.*

Ultrasonic bonding; Wire bonding; Aluminum wire; High reliability; Integrated circuit; Metallization; Scanning electron microscope; Transistor; *TN785. SP305-5.*

Ultrasonic bonding; Wire bonding; Aluminum; Microelectronics; *13022. SP305-4.*

Ultrasonic bonding; Wire bonding; Capacitor microphone; Flip-chip; Magnetic pickup; Microelectronic interconnections; Spider bonding; *TN573. SP305-3.*

Ultrasonic bonding; Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Infrared response; *TN727. SP305-4.*

Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Generation centers; Germanium; Gold-doped silicon; Infrared response; *TN754. SP305-5.*

Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Infrared response; Methods of measurement; *TN733. SP305-4.*

Ultrasonic bonding; Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Generation centers; Germanium; Gold-doped silicon; Infrared response; *TN743. SP305-4.*

Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; Epitaxial layer thickness; Flying-spot scanner; Gold-doped silicon; *SP400-12. SP305-7.*

Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Boron nitride; Boron redistribution; Capacitance-voltage methods; Darlington pairs; Deep depletion; Dopant profiles; Electrical properties; Electron beam evaporator; Electron beam induced damage; Electronics; *SP400-17. SP305-7.*

Ultrasonic bonding; Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; Charge-coupled device structures; Darlington pairs; Deep depletion; Dopant profiles; *SP400-19. SP305-8.*

Ultrasonic bonds; Bonds (wire); Failure modes; Metallurgical failure modes; Microelectronic; Thermocompression bonds; *15431. SP305-7.*

- Ultrasonic calorimeter; Ultrasonic power measurements; Calorimeter; *TN686*. SP305-8.
- Ultrasonic cleaning; Damage thresholds; Fused silica; Ion polishing; Surface damage; Surface roughness; Surface structure; Thin films; *SP435*, pp. 305-320 (Apr. 1976). SP305-8.
- Ultrasonic cleaning; Laser damage; Metal mirrors; Subsurface structure; *SP435*, pp. 90-97 (Apr. 1976). SP305-8.
- Ultrasonic cutting; Weibull distribution; Abrasion; Brittle-ductile transition; Erosion; Fracture location; Ring cracking; Shaping; Size-effect; Statistical nature of strength; *SP348*, pp. 119-131. SP305-4.
- Ultrasonic diagnosis; Ultrasound; Applied research; Imaging; Instrumentation technology; Medical ultrasonics; NSF; RANN; R & D incentives; Tissue characterization; Tissue signature; *SP453*, pp. 7-10 (Oct. 1976). SP305-8.
- Ultrasonic inspection; Aircraft component failure; Continuous wave holograms; Crack detection; Holographic techniques; Pulsed laser holograms; Stress corrosion cracking; *SP423*, pp. 93-103 (Apr. 1976). SP305-8.
- Ultrasonic instruments; Current probe; Impedance measurements; Piezoelectric transducer measurements; Transducer measurements; *13765*. SP305-5.
- Ultrasonic interferometer; Acoustical thermometry; Isotherms below 20 °K; Low temperature thermometry; Primary thermometry; Speed of sound; 9379. SP305.
- Ultrasonic interferometer; High temperature ultrasonic interferometer; Lock-in amplifier system; Measurements in molten glasses; Phase-lock detection system; Shear relaxation; *10710*. SP305-1.
- Ultrasonic interferometer; Ultrasonics; Phase sensitive detection; Speed of sound; *12322*. SP305-3.
- Ultrasonic machining; Ceramics; Finishing; Grinding; Specimens; Substrates; *SP348*, pp. 113-117. SP305-4.
- Ultrasonic measurements; Equation of state; High pressure; Liquids; Solids; *12497*. SP305-4.
- Ultrasonic measurements; Ultrasonic techniques; Calibration; Diagnostic ultrasound; *SP456*, pp. 91-97 (Nov. 1976). SP305-8.
- Ultrasonic medicine; Ultrasonic radiation; Optical interferometric measurements; *SP456*, pp. 285-297 (Nov. 1976). SP305-8.
- Ultrasonic microphone; Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; *TN520*. SP305-2.
- Ultrasonic (paramagnetic) resonance; Ultrasonic transition probabilities; Wave functions of  $\text{Fe}^{++}$ ; Energy levels of  $\text{Fe}^{++}$  in  $\text{Al}_2\text{O}_3$ ; Iron doped  $\text{Al}_2\text{O}_3$ ; *J73A No. 2*, 241-268 (1969). SP305-1.
- Ultrasonic power; Ultrasonic transducers; Piezoelectric transducers; Standards of ultrasonic power; *14819*. SP305-7.
- Ultrasonic power measurements; Calorimeter; Ultrasonic calorimeter; *TN686*. SP305-8.
- Ultrasonic pulses; Fluid range; Measure pressures; Pressure gages; Pressure-sensitive components; Regenerating circuits; Transit time; *10563*. SP305-1.
- Ultrasonic radiation; Optical interferometric measurements; Ultrasonic medicine; *SP456*, pp. 285-297 (Nov. 1976). SP305-8.
- Ultrasonic reference blocks; Acoustic emission; Aluminum; Fatigue cracks; Flat bottomed holes; Standards; Steel; Titanium; Transducer calibration; *16252*. SP305-8.
- Ultrasonic relaxation; Alkali-borosilicate glass; Composition fluctuations; Immiscible alkali-borosilicate glass; Spectrum of relaxation times; *11064*. SP305-2.
- Ultrasonic relaxation; Viscosity; Glasses; Liquid viscosities; Molten glasses; *10673*. SP305-1.
- Ultrasonic relaxation; Viscous relaxation;  $\text{B}_2\text{O}_3$ ; Shear spectra of relaxation times; *10497*. SP305-1.
- Ultrasonic spectroscopy; Critical transport; Critical viscosity; Critical viscous flow; Structural relaxation; *12120*. SP305-3.
- Ultrasonic spectroscopy; Ultrasound; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; Medical diagnosis; Microscopy; Pattern recognition; Reconstruction; Scattering; Tissue characterization; Tissue parameters; tissue signature; Tumor; *SP453*. SP305-8.
- Ultrasonic spectroscopy; Ultrasound diagnosis; Acoustic impedance; Bragg diffraction; Computer processing; Frequency dependent attenuation; Internal scattering; Myocardial infarction; Scattering; Surface scattering; Tissue characterization; *SP453*, pp. 167-196 (Oct. 1976). SP305-8.
- Ultrasonic spectroscopy; Viscous relaxation; Immiscibility; Oxide glasses; Relaxation times; Supercritical fluctuations; *11866*. SP305-3.
- Ultrasonic spectroscopy; Volume relaxation; Composition fluctuations; Critical point phenomena; Immiscibility; Oxide glasses; *13243*. SP305-5.
- Ultrasonic techniques; Calibration; Diagnostic ultrasound; Ultrasonic measurements; *SP456*, pp. 91-97 (Nov. 1976). SP305-8.
- Ultrasonic techniques; Dental amalgam; Dental materials; Elastic properties; Mechanical properties; Nondestructive testing; *SP354*, pp. 161-168. SP305-4.
- Ultrasonic transducers; Acoustic emission; Calibration of transducers; Electrostatic transducers; Lamb's problem; Seismic pulses; *14960*. SP305-7.
- Ultrasonic transducers; Piezoelectric transducers; Standards of ultrasonic power; Ultrasonic power; *14819*. SP305-7.
- Ultrasonic transition probabilities; Wave functions of  $\text{Gd}^{+++}$ ; Corundum; Spin Hamiltonian; Energy levels of  $\text{Gd}^{+++}$  in  $\text{Al}_2\text{O}_3$ ; Quadrupole transitions; Transition probabilities; *J75A No. 5*, 493-523 (1971). SP305-3.
- Ultrasonic velocity;  $\text{B}_2\text{O}_3$ ; High-frequency moduli; *9618*. SP305-1.
- Ultrasonic wire bonding; Voltage contrast mode; X-ray photoelectron spectroscopy; Acoustic emission; Auger electron spectroscopy; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; Dopant profiles; Electrical properties; *SP400-23*. SP305-8.
- Ultrasonic (paramagnetic) resonance; Ultrasonic transition probabilities; Wave functions of  $\text{Gd}^{+++}$ ; Corundum; Spin Hamiltonian; Energy levels of  $\text{Gd}^{+++}$  in  $\text{Al}_2\text{O}_3$ ; *J75A No. 5*, 493-523 (1971). SP305-3.
- Ultrasonically; Hexadecapole; Induced; Nuclear; Transition; *9356*. SP305.
- Ultrasonically induced transitions; Angular dependence; Hexadecapole; Hexadecapole transitions; Phonon-nuclear interactions; Saturation factor; *10577*. SP305-1.
- Ultrasonics; Alloys; Corrosion; Cupro-nickel; High velocity; Sea-water; *12479*. SP305-4.
- Ultrasonics; Aluminum ultrasonic reference standards; ASTM-type reference standards; Calibration; Interim reference standard; Longitudinal beam; Measurement system; Nondestructive evaluation; Pulse-echo; *TN924*. SP305-8.
- Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference blocks; Fabrication of reference blocks; Immersion testing; Longitudinal waves; Metallurgical variables; Nondestructive testing; Pulse-echo; Steel ultrasonic standards; Titanium ultrasonic standards; *NBSIR 75-685*. SP305-7.
- Ultrasonics; Aluminum ultrasonic standards; ASTM-type reference standards; Calibration; Fabrication variables; Immersion testing; Interim reference standard; Longitudinal waves; Metallurgical variables; Nondestructive evaluation; Pulse echo; Steel ultrasonic standards; *NBSIR 76-984*. SP305-8.
- Ultrasonics; Anharmonic properties; Dislocation dynamics; *SP317*, pp. 427-445. SP305-3.



- Physics; A-scan; Attenuation; Computer analysis; Impedance; Liver cirrhosis; *SP453*, pp. 61-70 (Oct. 1976). **SP305-8.**
- Physics; Boxcar integrator; Nuclear magnetic resonance; Neutron nuclear interaction; *TN344*. **SP305.**
- Physics; Bulk modulus; Compressibility; Density; Dilatometer measurements; High pressure; Liquids; 2-methylbutane; *J.78A No. 5, 617-622 (1974)*. **SP305-6.**
- Physics; Bulk modulus; Density; Dilatometer measurements; High pressure; Liquids; Solids; *SP326*, pp. 11-22. **SP305-3.**
- Physics; Bulk modulus; Equation of state; High pressure; *SP326*; transitions; Potassium chloride; Tellurium; *11746*. **SP305-2.**
- Physics; Bulk modulus; Equation of state; High pressure; *SP326*; transitions; Potassium chloride; *16029*. **SP305-8.**
- Physics; Compressibility; Cylinder distortion; High pressure; *SP326*; Tellurium; *J.71C1-439, 11-17 (1967)*. **SP305.**
- Physics; Electrical connector; Feedthrough; High pressure; *SP326*; *9526*. **SP305.**
- Physics; Electroacoustics; Medical diagnostics; Radiation therapy; Radiation therapy (ultrasonic); *NBSIR 75-937*. **SP305-8.**
- Physics; Electromagnetic transducer; EMAT; Transducer; *SP305-8.*
- Physics; NMR; Switching; *14980*. **SP305-7.**
- Physics; Phase sensitive detection; Speed of sound; Ultrasonic interferometer; *12322*. **SP305-3.**
- Physics; Velocity; Absorption; Attenuation; Impedance measurement; Transient thermal gradients; *SP453*, pp. 143-151 (Oct. 1976). **SP305-8.**
- Physics; Velocity of sound; Delay line; Frequency stability; *SP453*; High pressure; Self-excited pulse repetition; Temperature compensation; *9331*. **SP305.**
- Physics; X rays; Compaction density; Eddy current measurements; Fuel rods; Impregnation density; Monitor tests; Neutron radiography; *SP336*, p. 405. **SP305-3.**
- Physics; X-radiography; End fitting; Glass-reinforced-plastic end fitting; Nondestructive examination; Neutron radiography; *NBSIR 76-1084*. **SP305-8.**
- Physics; 2-methylbutane; Bulk modulus; Compressibility; Density; Dilatometer measurements; High pressure; Liquids; *J.78A No. 2, 121-127 (1971)*. **SP305-3.**
- Physics; Acoustic attenuation; Acoustic velocity; Breast tissue; Computerized tomography; Heart; Reconstruction; Index; Synthetic focus; Tissues; *SP453*, pp. 109-110 (Oct. 1976). **SP305-8.**
- Physics; Analog-digital converter; A-scan; Digitization; Pattern recognition; Speech spectrogram; *SP453*, pp. 51-59 (Oct. 1976). **SP305-8.**
- Physics; Angular dependence; Blood; Compressibility; Density; Distribution function; Erythrocytes; Hematocrit; Scattering; *SP453*, pp. 207-212 (Oct. 1976). **SP305-8.**
- Physics; Applied research; Imaging; Instrumentation technology; Medical ultrasonics; NSF; RANN; R & D incentives; Tissue characterization; Tissue signature; Ultrasonic diagnosis; *SP453*, pp. 7-10 (Oct. 1976). **SP305-8.**
- Physics; Attenuation; Computer; Deconvolution; Impedance; Impulse response; Layer model; Lucite; *SP453*, pp. 21-25 (Oct. 1976). **SP305-8.**
- Physics; Blood; Cross-section; Diagnosis; Scattering; Standardization; Tissue characterization; *SP453*, pp. 29-47 (Oct. 1976). **SP305-8.**
- Physics; Bragg diffraction; Diagnosis; Frequency dependence; Orientation dependence; Scattering; Tissue characterization; *SP453*, pp. 197-206 (Oct. 1976). **SP305-8.**
- Physics; Color-coded B-scan; Fourier transform; Spectral analysis; Tissue structure; *SP453*, pp. 97-107 (Oct. 1976). **SP305-8.**
- Physics; Diagnosis; Doppler effect; Optimization; Resonance; Scattering; Tissue characterization; Tissue parameters; Tumor detection; *SP453*, pp. 11-17 (Oct. 1976). **SP305-8.**
- Physics; Diffraction; Fourier transform; Scattering; Tissue characterization; *SP453*, pp. 213-228 (Oct. 1976). **SP305-8.**
- Physics; Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; Medical diagnosis; Microscopy; Pattern recognition; Reconstruction; Scattering; Tissue characterization; Tissue parameters, tissue signature; Tumor; Ultrasonic spectroscopy; *SP453*. **SP305-8.**
- Physics; Velocity; Absorption; Attenuation; Mammalian tissues; Tissue parameters; *SP453*, pp. 21-28 (Oct. 1976). **SP305-8.**
- Physics; Velocity; Acoustic imaging; Acoustic microscopy; Attenuation; Frequency dependence; Impedance; Microstructural analysis; Tissue; *SP453*, pp. 261-267 (Oct. 1976). **SP305-8.**
- Physics; Velocity; Attenuation; Breast tissue; Broadband; High resolution; Imaging; Large aperture; Pathology; Pellicle; Phase-contrast; Transmission; *SP453*, pp. 121-133 (Oct. 1976). **SP305-8.**
- Physics; Velocity; Attenuation; Breast; Reflection techniques; *SP453*, pp. 135-139 (Oct. 1976). **SP305-8.**
- Physics; Acoustic impedance; Bragg diffraction; Computer processing; Frequency-dependent attenuation; Internal scattering; Myocardial infarction; Scattering; Surface scattering; Tissue characterization; Ultrasonic spectroscopy; *SP453*, pp. 167-196 (Oct. 1976). **SP305-8.**
- Physics; Gage blocks; Maraging steel; Nitriding; Precision equipment; Surface hardened; Temporal dimensional stability; *11596*. **SP305-2.**
- Physics; Accuracy; Analysis of precision; *a priori* error; *a priori* precision; *a posteriori* precision; Chi-square test; Precision; Precision of analytical method; *SP422*, pp. 127-139 (Aug. 1976). **SP305-8.**
- Physics; *Ab initio* potential curve; Carbon dioxide; Quasi-linear molecule; Renner splitting; Temperature dependent absorption coefficient; Transition moment; *12458*. **SP305-4.**
- Physics; Absorption; B-stars; C iv; O-stars; Si iv; Spectra; Stellar; *16271*. **SP305-8.**
- Physics; Absorption spectrum; Azomethane; Dimethyl mercury; Extinction coefficient; *14124*. **SP305-6.**
- Physics; Antimony; Beryllium; Bismuth; Complex dielectric constant; Germanium; Least-squares fit to reflectance; Optical constants; Reflectance; *11556*. **SP305-2.**
- Physics; Atomic spectra; Intensities; Spectral lines; *Mono. 32, Supplement*. **SP305.**
- Physics; Butene; Ionization efficiency; Isomers; Krypton resonance line; Quantum yield; *14568*. **SP305-6.**
- Physics; Calibration; Detector; Infrared; Pyroelectric; Radiometers; *13752*. **SP305-5.**
- Physics; Carbenes; Hydrocarbons; Photochemistry; *9910*. **SP305-1.**
- Physics; Detectors; NBS; Radiometry; Sources; Standards; Survey; *SP456*, pp. 107-110 (Nov. 1976). **SP305-8.**
- Physics; Diatomic molecule; Interference; Photoionization; *9293*. **SP305.**
- Physics; Infrared spectrum; Isolated SH; Low temperature; Matrix; SH; *11846*. **SP305-3.**
- Physics; Natural ultraviolet; Radiometry; Solar irradiance; Spectroradiometry; *11455*. **SP305-2.**
- Physics; Uniformity of response; Detector; Photodiode; Silicon; *16413*. **SP305-8.**
- Physics; UV achromats; Visible; Averaging sphere; Deuterium arc lamp; Fluorescent wavelength converter; Grating; Spectrophotometry; Standard reference materials; *J.78A No. 5, 631-636 (1974)*. **SP305-6.**

Ultraviolet; Vacuum; Dissociation; Fragment ions; Ionization; Mass spectrometer; Molecule;  $\text{NO}_2$ ;  $\text{NO}_2^+$ ;  $\text{N}_2\text{O}^+$ ; Photoionization; Threshold; *J.71A5-467, 371-378 (1967)*. **SP305.**

Ultraviolet; Vacuum; Wavelengths; Carbon; Copper; Germanium; Ritz; Silicon; Spectrum; Standards; *9338*. **SP305.**

Ultraviolet; Vacuum ultraviolet; Free radical; Infrared; Matrix isolation; Methyl; Methylene; Photolysis; Rotation; Spectrum; *10404*. **SP305-1.**

Ultraviolet; Visible; Averaging sphere; Diffusing effectiveness; Efficiency; Fluorescent wavelength converter; Photometry; Spectrophotometry; *16333*. **SP305-8.**

Ultraviolet; Visible; Complex dielectric constant; Electron-energy-loss; Electronic band structure; Infrared; Least-squares fit to optical data; Optical constants; Reflectance; *11555*. **SP305-2.**

Ultraviolet; Visible absorption spectra; 4-oxo-4H-benz(de)anthracene-7,8-dicarboxylic anhydride; Absorption spectra; Air pollutants; Anthraquinone-1,5-dicarboxylic acid; Dihydroxyperylenequinones; *J.72A No. 1, 39-47 (1968)*. **SP305-1.**

Ultraviolet; Wavelength; Zirconium; Molybdenum; Niobium; Spectra; *16425*. **SP305-8.**

Ultraviolet; Wavelength calibration; Averaging spheres; High accuracy transmittance; Light averaging devices; Linearity; Photometric precision; Reference spectrophotometer; *TN913*. **SP305-8.**

Ultraviolet; Wavelengths; Aluminum; Energy levels; Spectra; *14011*. **SP305-6.**

Ultraviolet; Wavelengths; Barium; Cesium; Lanthanum; Spectra; *16035*. **SP305-8.**

Ultraviolet; Wavelengths; Iron; Spectra; *15007*. **SP305-7.**

Ultraviolet; Wavelengths; Iron; Spectra; *16133*. **SP305-8.**

Ultraviolet; Wavelengths; Magnesium; Source; Spectra; *13370*. **SP305-5.**

Ultraviolet; Wavelengths; Magnesium; Source; Spectra; *12962*. **SP305-4.**

Ultraviolet; Wavelengths; Molybdenum; Spectra; *13085*. **SP305-5.**

Ultraviolet; Wavelengths; Neon; Spectra; *12606*. **SP305-4.**

Ultraviolet; Wavelengths; Niobium; Spectra; *13083*. **SP305-5.**

Ultraviolet; Wavelengths; Rubidium; Spectra; *14893*. **SP305-7.**

Ultraviolet; Wavelengths; Rubidium; Spectra; *15255*. **SP305-7.**

Ultraviolet; Wavelengths; Yttrium; Zirconium; Molybdenum; Niobium; Rubidium; Spectra; Strontium; *12675*. **SP305-4.**

Ultraviolet; Wavelengths; Yttrium; Spectra; *12826*. **SP305-4.**

Ultraviolet; Wavelengths; Yttrium; Spectra; *15725*. **SP305-8.**

Ultraviolet; Wavelengths; Yttrium; Zirconium; Spectra; *16134*. **SP305-8.**

Ultraviolet; Wavelengths; Zeeman effect; Rubidium; Spectra; *13196*. **SP305-5.**

Ultraviolet; Wavelengths; Zeeman effect; Rubidium; Spectra; *13662*. **SP305-5.**

Ultraviolet; Wavelengths; Zirconium; Spectra; *13084*. **SP305-5.**

Ultraviolet; X-rays; Absorption; Films; Spectra; Tin; Transmittance; *9639*. **SP305-1.**

Ultraviolet; X-rays; Absorption; Radiation; Spectroscopy; *9311*. **SP305.**

Ultraviolet absorbance standards; Absorbance linearity; Accuracy; Acidic potassium dichromate solutions; Calibration of ultraviolet spectrophotometers; Liquid filters; Transfer standards; *J. Res. 80A No. 4, 631-636 (1976)*. **SP305-8.**

Ultraviolet absorbers; Color reactions; Opaque pigments; Photodegradation; Poly(vinyl chloride); Rigid plastic; *10137*. **SP305-1.**

Ultraviolet absorption; Air pollution; Flash photolysis; Sulfur dioxide; *14139*. **SP305-6.**

Ultraviolet absorption; Carbon tetrachloride; Cyclohexane; Ethylbenzene; Extinction coefficient; Polymer; Polystyrene; Solvent effects; *J.71A2-449, 169-175 (1967)*. **SP305.**

Ultraviolet absorption; Formaldehyde; Inelastic electron scattering; *12224*. **SP305-3.**

Ultraviolet absorption cross section; Forward inelastic electron scattering; Oscillator strength; Sulfur hexafluoride; *106*. **SP305-1.**

Ultraviolet analysis; Weathering; Color and gloss measurements; Colorimetric analysis; Infrared analysis; Oxidation; Plastics; *10554*. **SP305-1.**

Ultraviolet and visible spectroscopy; Aromatic amine; Benz derivative; Charge-transfer complex; Dental materials; Electron affinity; Electron spin resonance spectroscopy; Thermodynamic relationships; Ionization potential; *J. 180A No. 2, 173-187 (1976)*. **SP305-8.**

Ultraviolet and visible wavelengths; Planetary reconnaissance; Spectral reflectance; Spectrum of reflected sunlight; *106*. **SP305-1.**

Ultraviolet atomic spectra; Atomic spectra; Rare-earth spectra; Transition probabilities; Triple commission for spectroscopy; *9951*. **SP305-1.**

Ultraviolet averaging sphere; Ultraviolet to visible converter; Averaging sphere; Averaging ultraviolet and visible light; Radiation converter; *U.S. Patent 3,968,363*. **SP305-8.**

Ultraviolet cross sections; Aeronomics; Astrophysical; Photoabsorption cross sections; Photodissociation; Photocitation; Photoionization; Photon-scattering; Total; *NSR/NBS38*. **SP305-3.**

Ultraviolet degradation; Alkaline paint; Conduction of paint during ultraviolet exposure; Electrode potential of paint; Photo degradation; Thermal control coatings; *SP336, 373-402*. **SP305-3.**

Ultraviolet degradation; Aluminum coated teflon; Electrodegradation; Proton degradation; Silver coated teflon; Teflon; *SP336, pp. 345-358*. **SP305-3.**

Ultraviolet degradation; Vacuum UV; Alzak; Thermal control coatings; *SP336, pp. 383-392*. **SP305-3.**

Ultraviolet detector; Heat detector; Optical radiation sensor; Poling; Polymer; Polyvinyl fluoride; Polyvinylidene fluoride; Pyroelectric effect; Relative spectral response; *15183*. **SP305-7.**

Ultraviolet detectors; Detection; Fire detectors; Flame detectors; Heat detectors; Infrared detectors; Smoke detectors; Testing; *NBSIR 76-1040*. **SP305-8.**

Ultraviolet intensities; Atomic spectra; Intensities; Spectral intensities; *10331*. **SP305-1.**

Ultraviolet laser action; He-Ag and Ne-Ag mixtures; Laser action; *16511*. **SP305-8.**

Ultraviolet laser, 250.0 nm; Cu II spectrum; *16192*. **SP305-8.**

Ultraviolet lines of Fe I; Atomic spectra; Iron; Oscillator strengths; Transition probability; *J.70A4-409, 325*. **SP305.**

Ultraviolet machine; Effects of metrication; Environmental data; Fire research (history of); Fire retardants; Flammability; Frequency measurements; Housing industry; Joseph junction; Nitric oxide; Synchrotron; *DIM/NBS 58, No. 121-142 (1974)*. **SP305-6.**

Ultraviolet monochromator; Windowless vacuum; Mass spectrometer; Mass spectrometric study; Photoionization of small molecules; Small molecules; *9676*. **SP305-1.**

Ultraviolet photoelectron spectroscopy; X-ray photoelectron spectroscopy; Adsorbate; Chemisorption; Ruthenium; *158*. **SP305-8.**

Ultraviolet photoelectron spectroscopy; Virgin CO; Adsorbate; Carbon monoxide; Chemisorption; Desorption; Photoelectron spectroscopy; Photoemission; Single crystal; Tungsten; *15851*. **SP305-8.**

Ultraviolet photoelectron spectroscopy (UPS); Angle and energy distributions; Charged particle spectroscopy; Electrostatic desorption of ions (ESDIAD); Field-ion microscopy (FIM); Low energy electron diffraction (LEED); *160*. **SP305-8.**

iolet photoemission; Adsorption; Chemisorption; CO; Electron resonance; Electron cyclotron resonance; Magnetic field; Microwave discharge; Photoemission; Tungsten; 16. SP305-8.

iolet photoemission; Copper; Copper nickel alloys; Density of states; GaAs; Ge; Nondirect transitions; Optical density of states; PbTe; SP223, pp. 139-157. SP305-4.

iolet photoemission; Copper; Copper nickel alloys; Density of states; GaAs; Ge; Nondirect transitions; Optical density of states; PbTe; 174A No. 3, 397-415 (1970). SP305-2.

iolet photoemission; Valence band; Virgin states;  $\alpha$  states;  $\beta$  states; Adsorption; Carbon; Carbon monoxide; Chemical bonding; Chemisorption; Density dependent transitions; Desorption; Dissociative adsorption; Electronic states; Hydrogen; Monolayers; Nitrogen; 16419. SP305-8.

iolet photolysis; Carbon atom production; Carbon atom reactions; Cyanogen azide; Force constants; Infrared spectrum; CN free radical; Thermodynamic properties; 9369. SP305-5.

iolet photolysis; Vacuum ultraviolet photolysis; CH<sub>3</sub>S; H<sub>2</sub>S; Dimethylsulfide; Infrared spectrum; Matrix isolation; Pyrolysis; s-trithiane; Thioformaldehyde; 15334. SP305-3.

iolet radiation; Weatherability; Antenna-support materials; Environmental degradation; Guys, nonmetallic; Marine atmospheres; Plastics, fiber-reinforced; Pultrusions; Stress-strain are testing; Sunlight; NBSIR 76-1069. SP305-8.

iolet reflectance; Aluminum; Gold; Infrared reflectance; Spectrometer; Mirrors; Reflectance; Reflectance standards; Total reflectance; Spectral specular reflectance; Specular reflectance; Standards; SP260-38. SP305-4.

iolet solar radiation; Solar radiation; Stratospheric ozone; 1637. SP305-1.

iolet source; High resolution electron energy analyzer; Electron spectroscopy; Photoemission from solids and adsorbed gases; Ultrahigh vacuum; 12519. SP305-4.

iolet, spectra; Atomic processes; Sun, corona; Sun, flares; Solar prominences; Sun, spectra; 15987. SP305-8.

iolet spectra; Atomic spectra; Lanthanum spectra; Spectral spectra; Rare earth spectra; Transition probabilities; 10406. SP305-1.

iolet spectra; Diphenylformazans; Enolic phenylhydrazono-phenylazo structure; Infrared spectra; Molecular structure; Nuclear magnetic resonance; Oxohydrazono-phenyl compounds; Phenylhydrazono-phenyl tautomerism; Phenylsazones; Tautomerism; 10286. SP305-1.

iolet spectra; Quantum mechanics; Band strengths; Compton emission; DeBroglie wavelength; Diatomic molecule; Helium isotopes; Radiative deexcitation; 10283. SP305-5.

iolet, spectra; Stars, chromospheres; Stars, late type; 1. SP305-8.

iolet spectrophotometry; Adsorption of polymers; Attenuation; Total reflection; Conformation of adsorbed polymer molecules; Frustrated total reflection; Index of refraction in ultraviolet region; Polymer adsorption; Refractive index in ultraviolet region; 9988. SP305-1.

iolet spectroscopy; Aromatic amine; Charge-transfer complexes; Color; Dental material; Methacrylate, phthalate; 4,4'-dimethyl-p-toluidine; 15158. SP305-7.

iolet spectroscopy; Atomic spectra; High temperature materials; Low temperature; Matrix isolation; Sputtering; 1.2. SP305-2.

iolet spectrum; Absorption; DCO; Emission; Force constants; Formaldehyde; Free radical; HCO; Hydrocarbon flame products; Infrared spectrum; Matrix isolation; Photolysis; 11404. SP305-2.

Ultraviolet spectrum; Alkali metal reactions; Cage effect; Flash photolysis; Free radicals; Infrared spectrum; Matrix isolation; Molecular ions; Molecular orbitals; Photolysis; 12748. SP305-4.

Ultraviolet spectrum; Ar metastable interactions; ClCH<sub>2</sub><sup>+</sup>; Emission spectrum; HAr<sub>n</sub><sup>+</sup>; HCCl<sub>3</sub><sup>+</sup>; HCCl<sub>2</sub><sup>+</sup>; HCCl; Infrared spectrum; Matrix isolation; Molecular rotation in solid Ar; Photoinduced proton transfer; 15757. SP305-8.

Ultraviolet spectrum; Carbon suboxide photolysis; C atom reactions; C atom sources; CNN free radical; Cyanogen azide photolysis; Force constants; Infrared spectrum; Matrix isolation; NCN free radical; Thermodynamic properties; 9947. SP305-1.

Ultraviolet spectrum; CCl; CCl<sub>2</sub>; Force constants; Free radical; HCCl; HCCl<sub>2</sub>; H<sub>2</sub>CCl; Infrared spectrum; Matrix isolation; Photolysis; 11964. SP305-3.

Ultraviolet spectrum; CF<sub>3</sub>NF; CF<sub>3</sub>NF<sub>2</sub>; F atom reaction; FCN; F<sub>2</sub>CN; FC<sub>2</sub>NF; Free radical; Infrared spectrum; Matrix isolation; Photolysis; 11002. SP305-2.

Ultraviolet spectrum; Charge transfer; Electron attachment; Infrared spectrum; Matrix isolation; Molecular orbitals; O<sub>2</sub> + O<sup>-</sup> reaction; O<sub>3</sub><sup>-</sup> anion; 12881. SP305-4.

Ultraviolet spectrum; Charge transfer; Infrared spectrum; Isotopic substitution; Matrix isolation; O<sup>-</sup> + O<sub>2</sub> reaction; O<sub>3</sub><sup>-</sup> anion; O<sub>4</sub><sup>-</sup> anion; Structure; 12938. SP305-4.

Ultraviolet spectrum; ClCF; ClCF<sub>2</sub>; Chlorofluoromethane; Chlorofluoromethane-d<sub>2</sub>; Fluorescence spectrum; Free radical; Infrared spectrum; Matrix isolation; Photolysis; 12219. SP305-3.

Ultraviolet spectrum; Cl<sub>2</sub> reactions; CoCl<sub>2</sub>; CrCl<sub>3</sub>; Emission spectrum; FeCl<sub>3</sub>; Infrared spectrum; Matrix isolation; MnCl<sub>2</sub>; Molecular orbitals; NiCl<sub>2</sub>; Transition-metal reactions; 11340. SP305-2.

Ultraviolet spectrum; Dichlorosilane; Dichlorosilane-d<sub>2</sub>; Force constants; Infrared spectrum; Matrix isolation; Photolysis; SiCl<sub>2</sub> free radical; 11232. SP305-2.

Ultraviolet spectrum; Force constants; Free radical; Infrared spectrum; Matrix isolation; Photolysis; SiCl<sub>3</sub>; Trichlorosilane; 11003. SP305-2.

Ultraviolet spectrum; Free radicals; Infrared spectrum; Matrix isolation; Molecular ions; Photolysis; 13706. SP305-5.

Ultraviolet spectrum; Free radicals; Infrared spectrum; Matrix isolation; Molecular ions, photolysis; 12663. SP305-4.

Ultraviolet spectrum; Vacuum ultraviolet photolysis; CN free radical; Cyanogen; Cyanogen bromide; Cyanogen chloride; Cyanogen fluoride; Halogen isocyanides; Hydrogen cyanide; Hydrogen isocyanide; Infrared spectrum; Matrix isolation technique; 10233. SP305-1.

Ultraviolet spectrum; Vacuum ultraviolet photolysis; Acetylene; C<sub>2</sub>; HC<sub>2</sub>; Infrared spectrum; Mulliken bands of C<sub>2</sub>; Swan bands of C<sub>2</sub>; 10246. SP305-1.

Ultraviolet spectrum; Vacuum ultraviolet photolysis; C atom reaction; CN reaction; HN<sub>3</sub> photolysis; Infrared spectrum; Matrix isolation; NCO free radical; NO reaction; O<sup>3</sup> atom reaction; 10405. SP305-1.

Ultraviolet spectrum; Vacuum ultraviolet photolysis; Infrared spectrum; Matrix isolation; NF; NF<sub>2</sub>; NF<sub>3</sub>; 14440. SP305-6.

Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Charge transfer; Free radical; Infrared spectrum; Matrix isolation; Molecular ion; 12787. SP305-4.

Ultraviolet spectrum; Vacuum-ultraviolet photolysis; ClOO; H-atom reaction; HO<sub>2</sub>; H<sub>2</sub>O<sub>2</sub>; Infrared spectrum; Matrix isolation; Normal coordinate analysis; O<sub>3</sub>; 12809. SP305-4.

Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Bichloride anion; ClCH<sub>2</sub> free radical; Electron attachment; HCl dimer; Hydrogen bonding; Infrared spectrum; Matrix isolation; 11975. SP305-3.

Ultraviolet spectrum; Vacuum-ultraviolet photolysis; CO<sub>2</sub>; CO<sub>2</sub>; Force constants; Infrared spectrum; Matrix isolation; O-atom reaction; Structure; 12101. SP305-3.

- Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Allene;  $C_3H_4$  ( $n=0$  to 3); Infrared spectrum; Isotopic substitution; Matrix isolation; Methylacetylene; 14237. **SP305-6.**
- Ultraviolet spectrum; Vacuum-ultraviolet photolysis of HCN, of halogen cyanides, of  $CH_4$ , of  $CH_3Cl$ , of  $CH_3OH$ , of  $C_2H_2$ , of  $HCCl_3$ ; Free radicals;  $HAu_4^+$ ; Infrared spectrum; Molecular ions; 14241. **SP305-6.**
- Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Disilane; Free radical; Infrared spectrum; Matrix isolation;  $Si_2$ ;  $SiH$ ;  $SiH_2$ ;  $SiH_3$ ; Silane; 11647. **SP305-2.**
- Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Carbon atom reaction; CF; Force constants; HCF;  $H_2CF$ ; HF reaction; Infrared spectrum; Isotopic substitution; Matrix isolation; Methyl fluoride; Thermodynamic properties; 1341. **SP305-2.**
- Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Acetylene;  $C_2$  radical,  $C_2^-$  ion; Cesium; Electron affinity; Matrix isolation; Photoionization; Swan bands; 11405. **SP305-2.**
- Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Difluorosilane; Free radical;  $HSiF_2$ ; Infrared spectrum; Matrix isolation;  $SiF_2$ ; 11233. **SP305-2.**
- Ultraviolet spectrum; Vacuum-ultraviolet photolysis; Force constants; Infrared spectrum; Matrix isolation;  $SiF_3$  free radical; Thermodynamic properties; Trifluorosilane; 11234. **SP305-2.**
- Ultraviolet spectrum;  $^{12}CF_2$ ,  $^{13}CF_2$ ;  $^{12}CF_3$ ,  $^{13}CF_3$ ; C atom reaction; F atom reaction;  $F_2$  reaction; Force constants; Free radical; Infrared spectrum; Matrix isolation;  $NF_2$ ; 10587. **SP305-1.**
- Ultraviolet spectrum-sun; Chromosphere-sun; Coronal holes; Diffusion; Transition region-sun; 15717. **SP305-8.**
- Ultraviolet stellar spectra; Wilson-Bappu effect; Chromospheres, stellar; *Copernicus* observations; 15784. **SP305-8.**
- Ultraviolet stellar spectrum; Stellar atmospheres; Stellar coronae; 14787. **SP305-7.**
- Ultraviolet to visible converter; Averaging sphere; Averaging ultraviolet and visible light; Radiation converter; Ultraviolet averaging sphere; *U.S. Patent 3,968,363*. **SP305-8.**
- Ultraviolet (UV) radiation; Water vapor; Weathering—artificial and natural; Yellowing; Atmospheric pollutants; Color—difference and representation; Impact resistance; Plastics; Rigid polyvinyl chloride (PVC); Test methods; *SP361, Vol. 1*, pp. 751-760. **SP305-4.**
- Ultraviolet-visible;  $-150$  to  $+60$  °C; Spectrophotometry; Thermostat; 9316. **SP305.**
- Ultraviolet-visible filters; Evaporated metal-on-quartz; Filters, transmittance; Neutral filters; Standard reference materials; Transmittance characteristics; *J. Res.* **80A** No. 4, 637-641 (1976). **SP305-8.**
- Unbalance; Vibration; Diesel-electric sets; Gears; Looseness; Signature analysis; *NBS-GCR-74-22*. **SP305-8.**
- Unbiased estimate; Variance; Spectral density; Statistics; *TN375*. **SP305-1.**
- Uncertainties; Accuracy; Optical radiation measurement; Radiometry; Systematic errors; 16583. **SP305-8.**
- Uncertainties; Adjustment; Critical assemblies; Cross sections; Evaluation; Integral data; Sensitivities; *SP425*, pp. 405-408. **SP305-7.**
- Uncertainties; Air transport; Benchmark; Profiles; Sensitivity; *SP425*, pp. 825-833. **SP305-7.**
- Uncertainties; Cross sections; Fusion reactors; Perturbation; Sensitivity; *SP425*, pp. 674-679. **SP305-7.**
- Uncertainties; Crystallographic data; Errors; Probability plots; Residuals; Statistics; *NBSIR 76-1102*. **SP305-8.**
- Uncertainties; Measurements; Microwave; Phase shift; Standards; UHF; 9697. **SP305-1.**
- Uncertainties; Standard deviation; Statistics; Student-*t*; Table of Student-*t*; *J.73C Nos. 1 and 2*, 15-16 (1969). **SP305-1.**
- Uncertainties; Volume; Argon; Compressed liquid; Density; Density ratios; Liquid; Nitrogen, oxygen; Parahydrogen; Pressure; Saturated liquid; Tables; Temperature; 7N (*Revised*). *Metric Supplement*. **SP305-6.**
- Uncertainties; Volume; Argon; Density; Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; Temperature; *TN361*. **SP305-1.**
- Uncertainties; Volume; Volume correction factor; Argon; Compressed liquid; Density; Graphs; Liquid; Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; Tables; Temperatures; *TN361, Revised October 1972*. **SP305-5.**
- Uncertainty; Accuracy; Accuracy chart; Calibration uncertainties; Measurement; Measurement systems; Reliability; Syntactic; 11198. **SP305-2.**
- Uncertainty; Accuracy; Calibrations; Expression of uncertainty; Measurements; Precision; Standard error; Systematic error; 10544. **SP305-1.**
- Uncertainty; Accuracy; Calibrations; Expression of uncertainty; Measurements; Precision; Standard error; Systematic error; 11029. **SP305-2.**
- Uncertainty; Accuracy; Mass measurement; Measurement process; Precision; Statistical control; *M 103*. **SP305.**
- Uncertainty; Autocollimator; Calibration; Constant deviation; Geometrical model; Optical square; Pentaprism; Reflection; Refraction; Standard deviation; *NBSIR 76-1305*. **SP305-8.**
- Uncertainty; Calibration; Comparator; Interferometer; Long gage blocks; Measurement process; *NBSIR 74-1305*. **SP305-6.**
- Uncertainty; Calibration; Diameter; Gravitational bending; Interferometry; Least squares line; Linear model; Optical profile; Standard deviation; *NBSIR 75-975*. **SP305-8.**
- Uncertainty; Calibration; Gage blocks; Interferometry; Length; Measurement process; *Monogr. 152*. **SP305-7.**
- Uncertainty; Calibration procedures; Color temperatures; Luminous flux; Luminous intensity; Photometry; *TN35*. **SP305-4.**
- Uncertainty; Creep; Fire endurance; Fire tests; Reinforced concrete; Sensitivity analysis; Steel; Structural mechanics; *BSS76*. **SP305-8.**
- Uncertainty; Mass measurement; Random variability; Standard deviation; Systematic error; 13402. **SP305-5.**
- Uncertainty; Measurement; Measurement assurance; *IS 305*. **SP305-8.**
- Uncertainty; Measurement; Traceability; 15975. **SP305-8.**
- Uncertainty; Measurement algorithm; Measurement assurance; Measurement process; Measurement unit; Process variability; *Monogr. 149*. **SP305-7.**
- Uncertainty; Value; Balance; Buoyancy; Calibration; Standard deviation; Substitution weighing; Transposition weighing; True weight; *TN577*. **SP305-3.**
- Uncertainty; Variability; Appearance evaluation; Colorimetry; Color spacing; Color vision; Gloss; Metamerism; Spectrophotometry; Standards; *SP300, Volume 9*. **SP305-4.**
- Uncertainty; Water phantom; Absorbed dose; Cobalt-60 gamma radiation; Computation check; Dose interpretation; Medical results; Therapy departments; Thermoluminescence dosimeters; *J. Res.* **80A** No. 4, 663-668 (1976). **SP305-8.**
- Uncertainty; Weighing; Calibration; Force; Load cells; Proportional; Transducers; *TN436*. **SP305-1.**
- Uncertainty file; Correlation; Covariance; ENDF/B; Standard deviation; *SP425*, pp. 173-176. **SP305-7.**
- Uncertainty in chromaticity coordinates; Uncertainty in tristimulus values; Uncertainty in spectrophotometric data; Uncertainty in spectroradiometric data; Uniform chromaticity spacing; Variability; Colorimetry; Propagation of error; 9965. **SP305-1.**
- Uncertainty in spectral tristimulus values; Uncertainty in spectrophotometric data; Uncertainty in spectroradiometric data; Uniform chromaticity spacing; Variability; Colorimetry; Propagation of error; 9965. **SP305-1.**



- Propagation of errors; Uncertainty in chromaticity coordinates; 9965. **SP305-1.**
- Uncertainty in spectrophotometric data; Uncertainty in spectroradiometric data; Uniform chromaticity spacing; Variability; Colorimetry; Propagation of errors; Uncertainty in chromaticity coordinates; Uncertainty in spectral tristimulus values; 9965. **SP305-1.**
- Uncertainty in spectroradiometric data; Uniform chromaticity spacing; Variability; Colorimetry; Propagation of errors; Uncertainty in chromaticity coordinates; Uncertainty in spectral tristimulus values; Uncertainty in spectrophotometric data; 965. **SP305-1.**
- Uncertainty of threshold of hearing standard; Artificial ear; Earphones; International audiometric reference zero; Pure-tone audiometers; Threshold of hearing; 11186. **SP305-2.**
- Uncertainty of viscosity measurements; Absolute measurement of viscosity; Accuracy of viscosity measurement; Calibration of viscometers; Viscosity; *J75A No. 6, 535-540 (1971).* **SP305-3.**
- Coated metal mirrors; Damage mechanisms; Inclusions in dielectrics; Multilayer dielectric mirrors; Pulsed CO<sub>2</sub> laser damage; Thin film coated metal; *SP372, pp. 183-193.* **SP305-4.**
- Core; Urethane foam; Cellular; Flexible; Slab; *PS13-69.* **SP305-1.**
- Cured resin cellulose fabric; Wash and wear performance; Durable press; Fiber; 9599. **SP305-1.**
- Decidability; Degrees of unsolvability; Propositional calculus; Recursion theory; 15616. **SP305-7.**
- Decooling; Activity; Chain fold; Cilia; Equilibrium dissolution temperature; Equilibrium melting temperature; Free energy of crystallization; Lamella thickness; Nucleation rate; Surface free energy; 12744. **SP305-4.**
- Decooling; Chain folds; Growth rate; Isotactic; Lamellar thickness; Nucleation theory; Polyethylene; Polymer crystallization; Polystyrene; 14364. **SP305-6.**
- Decooling; Cilia; Dissolution temperature; Fractionation; Rate constant; *J76A No. 3, 213-223 (1972).* **SP305-4.**
- Dergraduate education; Computer science; Computers; Hood college; Research tool; Time sharing; 14592. **SP305-6.**
- Derground; Alloys; Corrosion; Metallurgically-bonded; Metals; Plastic-bonded; Soils; Telephone cables; 16352. **SP305-8.**
- Derground; Corrosion; Exposure sites; Pipe; Soil corrosion; Steel; Titanium; 11106. **SP305-2.**
- Derground; Corrosion; Galvanic; Hydrogen embrittlement; Soil; Stainless steel; Stress; Stress-corrosion; 16354. **SP305-8.**
- Derground; Corrosion; H-piles; Sheet piles; Soil corrosion; Soils; Steel piles; 11654. **SP305-2.**
- Derground; Corrosion; Permafrost; Pilings; Soil corrosion; Steel; Steel piles; 11653. **SP305-2.**
- Derground; Soil corrosion; Cast iron; Corrosion; Ductile iron; Exposure sites; Ferrous metals; Gray iron; Pipe; Pipelines; 11100. **SP305-2.**
- Derground aluminum culverts; Corrosion; Corrosive soil; Highway culverts; Polarization curves; 10783. **SP305-1.**
- Derground communication facility; Underground electric facilities; Utility tunnel safety; Coordination of utility facilities; National electrical safety code; Safety standards for utility tunnels; 14671. **SP305-6.**
- Derground corrosion; Copper; Corrosion; Galvanic corrosion; Soil corrosion; Stainless steel; 16355. **SP305-8.**
- Derground corrosion; Metal and plastic composites; Metal composites, metals; Soil corrosion, telephone cable shields; 6351. **SP305-8.**
- Derground electric facilities; Utility tunnel safety; Coordination of utility facilities; National electrical safety code; Safety standards for utility tunnels; Underground communication facility; 14671. **SP305-6.**
- Underground heat distribution; ASTM, criteria; Federal Construction Council; Interagency; Prequalification; System performance; Tri-service; *BSS66, pp. 73-77.* **SP305-7.**
- Underground installations; Amplitude; Earth temperature; Earth temperature phase shift; Thermal diffusivity; 9870. **SP305-1.**
- Underground pipe; Chilled water pipe; Earth temperature; Heat transfer; Multiple pipe system; *BSS66, pp. 18-41.* **SP305-7.**
- Underground pipeline corrosion; Anaerobic corrosion; Cathodic depolarization; Desulfovibrio; Microbial corrosion; Sulfate-reducing bacteria; Thiobacilli; 11000. **SP305-2.**
- Underground piping; Heat distribution; Heating; High temperature water; Hot water; Insulation; Piping; Steam; *BSS66, pp. 52-59.* **SP305-7.**
- Underlayment; Wood; Wood joists; Concentrated loads; Deflection; Floor hardboard; Housing; Impact energy; Operation BREAKTHROUGH; Plywood; Subfloors; 13472. **SP305-5.**
- Underlayment; Wood; Wood joists; Concentrated load; Deflection; Floor; Hardboard; Housing; Impact energy; Operation BREAKTHROUGH; Plywood; Subfloors; *BSS52.* **SP305-6.**
- Underlayment; Wood-frame construction; Concentrated-load capacity; Evaluation criteria; Floors; Hardboard; Load capacity; Operation BREAKTHROUGH; Performance criteria; Plywood subflooring; Subflooring; 13388. **SP305-5.**
- Underlayment; Wood-frame construction; Evaluation criteria; Floors; Hardboard; Load capacity, performance criteria; Plywood subflooring; Subflooring; *BSS53.* **SP305-6.**
- Underlaysments; Carpets; Fire; Flammability; Floor coverings; Pad; *NBSIR 76-1018.* **SP305-8.**
- Underplatings for gold; Wear of gold; Contact lubrication; Corrosion inhibitors; Electrical contacts; Gold plate; Palladium; Polymer in gold; Porosity in gold; Solder plate; Tin-nickel alloy; Tin plate; *SP452, pp. 64-71 (Sept. 1976).* **SP305-8.**
- Underpotential deposition; Electrocatalysis; Foreign metal monolayers; Fe<sup>2+</sup>/Fe<sup>3+</sup> reaction; Formic acid oxidation; Oxygen reduction; *SP455, pp. 191-200 (Nov. 1976).* **SP305-8.**
- Understanding; Written language; Human communication; Language; Meaning; Symbols; 12333. **SP305-5.**
- Underwater sound; Piezoelectricity; Piezoelectric modulus; Polymer; Polyvinylchloride; Transducer; 12276. **SP305-3.**
- Undisturbed soil; Weight loss; Active region; Aerated soil; Corrosion; Disturbed soil; Excavated; Extracted; H-piling; Instantaneous corrosion rate; Mill scale; Permafrost region; Pipe piling; Pit depth; Polarization; Sheet piling; *Monogr. 127.* **SP305-4.**
- Undisturbed soil; Weight loss; Corrosion; Corrosion rate; Disturbed soil; Instantaneous rate; Pit depth; Pitting factor; Polarization; Steel piling; *J75C No. 2, 107-121 (1971).* **SP305-3.**
- Uniaxial compression; 0-1.8 kbars stress; Anisotropic stress effect; Hydrostatic pressure; Nb-doped SrTiO<sub>3</sub>; Reduced SrTiO<sub>3</sub>; Superconductivity; Transition temperatures; 11767. **SP305-2.**
- Uniaxial loading; 4340 steel; Bending; Capacitance strain gage; Tensile; Ti-6Al-4V; 13648. **SP305-5.**
- Uniaxial strain; Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; Elastic strain energy function; Finite strain; Non-linear behavior; Non-Newtonian fluids; Normal stresses; Pure shear; Simple extension; 9583. **SP305-1.**
- Uniaxial stress; Absorption edge; Dichroism; Rotary transmission method; Selection rules; SrTiO<sub>3</sub>; 10942. **SP305-2.**
- Uniaxial stresses; Anisotropic uniaxial stress effect; Hydrostatic pressure; Reduced strontium titanate; Single crystal; Stresses; Superconductive transition temperatures; 10413. **SP305-1.**
- Unidentified molecular lines; Microwave spectra; Predicted spectra; Radio astronomy; Silicon molecules; Structures; 14867. **SP305-7.**

- Unidentified process losses; Inventory fluctuations; Measurement errors; Normalization factors; Process activity; 12870. **SP305-4.**
- Unification; Associative processing; First-order predicate calculus; Resolution; Subsumption; Theorem-proving; 13760. **SP305-5.**
- Unified classical path; Hydrogen lines; Line wings; Stark broadening; Theory; 12222. **SP305-3.**
- Unified primary standard for time and length; Accuracy limits in interferometry; Experimental evidences for constancy of speed of light; 14268. **SP305-6.**
- Unified standard; Allan variance; Base units; Fast linewidth; Frequency multiplication; Infrared frequency metrology; Josephson effect; Linewidth; Methane frequency standard; Phase noise; 13995. **SP305-6.**
- Unified standard; Cesium beam frequency standard; Dissemination systems; EMF standard; Frequency and time metrology; Frequency standards; Infrared frequency synthesis; International System of Units; Josephson effect; Length standards; 12960. **SP305-4.**
- "Unified standard"; URSI; USA standard time zones; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); BIH; Buffer gases; CCIR; Clock ensembles; Clocks; Crystal aging; Cs frequency standard; *Monogr. 140. SP305-6.*
- Unified theory; Classical path; Hydrogen lines; Line wings; One-electron theory; Stark broadening; 12084. **SP305-3.**
- Unified theory; Classical path; Hydrogen lines; Line wings; Stark broadening; *Monogr. 120. SP305-3.*
- Unified theory; Classical path; Hydrogen lines; Line wings; One-electron theory; Stark broadening; *Monogr. 116. SP305-2.*
- Unified theory; Electron gas; Stark broadening; 13864. **SP305-6.**
- Unified theory; Lyman- $\alpha$ ; Stark-broadening; Time-ordering; 12208. **SP305-3.**
- Unified theory; Lyman- $\alpha$ ; Stark-broadening; Time-ordering; *Monogr. 121. SP305-3.*
- Unified theory; Relaxation theory; Scalar additivity theory; Spectral line broadening; 13867. **SP305-6.**
- Uniform approximation; Chemical reactions; Classical scattering matrix theory; Collision theory; Hydrogen atoms; Hydrogen molecules; Scattering theory; Trajectories; 16054. **SP305-8.**
- Uniform asymptotic approximations; Weber's equation; Error bounds; Parabolic cylinder functions; Turning points; *J. Res. 80B No. 4, 437-440 (1976). SP305-8.*
- Uniform chromaticity spacing; Variability; Colorimetry; Propagation of errors; Uncertainty in chromaticity coordinates; Uncertainty in spectral tristimulus values; Uncertainty in spectrophotometric data; 9965. **SP305-1.**
- Uniform color scales; Color chips; Color scales; Painted color chips; Rhombohedral lattice-sampling method; 9821. **SP305-1.**
- Uniform color scales; Color chips; Color scales; Painted color chips; 9824. **SP305-1.**
- Uniform distribution; Determinant; Expected value; Hadamard determinantal bound; *J.78B No. 3, 167-169 (1974). SP305-6.*
- Uniform distribution; Equidistribution; Numerical analysis; Pseudo-random; Quadrature; Random numbers; Sequences; 11629. **SP305-2.**
- Uniform electric field; Dirac and Klein-Gordon equations; Time-dependent solutions; *J.72B No. 1, 37-42 (1968). SP305-1.*
- Uniform polarization; Infrared detectors; PVF<sub>2</sub>; Pyroelectric detectors; 14146. **SP305-6.**
- Uniform sensitivity neutron counter; Differential elastic scattering cross section; Fast neutrons; Scattering geometry; *SP425, pp. 886-888. SP305-7.*
- Uniformity; Effectiveness; Forced mixing; Mixing device; Pressure drop; Temperature; *B5S27. SP305-2.*
- Uniformity; Interstate; Intra-state; "National Conference of States on Building and Standards"; 12081. **SP305-3.**
- Uniformity; Weights and measures; Digital indicators; Drained weight; Laws and regulations; Metrication; Metric conversion; Net weight; Package control; Petroleum products; Scales; Survey; Temperature compensation; *SP407. SP305-7.*
- Uniformity checks;  $\sim 1$  to 50 MeV; Absorbed dose; Calibration; Electrons; Ferrous-sulfate system; Graphite calorimeter; Interim program; Photons; Transfer standard; 12199. **SP305-2.**
- Uniformity of assessment; Weathering; Agrément; Durability prediction; Economic aspects; Evaluative judgement; Need for clarity of purpose; Performance concept; Plastics in fire; Rain penetration; Robustness of construction; *SP361, Vol. 1, pp. 491-502. SP305-4.*
- Uniformity of dosimetry; Calibration methods; Facilities of users; Ferrous sulfate; Fricke; High-energy electrons; NBS service; Spectrophotometry; 10922. **SP305-2.**
- Uniformity of response; Detector; Photodiode; Silicon; Ultraviolet; 16413. **SP305-8.**
- Uniforms; Upholstered furniture; Apparel; Burn injury; Carpets; Draperies; Fabrics; Flammability; Heat flux; Standards; Tents; Tests; 16144. **SP305-8.**
- Unimodal matrices; Fields; Principal ideal rings; Symmetric completion; Symmetric matrices; 13976. **SP305-6.**
- Unimolecular decomposition; Atom-transfer reaction; Chemical activation; Chemical kinetics; Chemi-excitation; Gas phase; Potential energy surfaces; Recombination; Review; 11943. **SP305-3.**
- Unimolecular decomposition; Cycloalkanes; Ion-molecule reactions; Ion-pair yields; Radiolysis; 9680. **SP305-1.**
- Unimolecular decomposition; Decomposition; Kinetics of decomposition; Molecular mechanisms; Pyrolysis of hydrocarbons; Radical mechanisms; *SP357, pp. 7-15. SP305-4.*
- Unimolecular dissociation; Activated complex; Activated molecules; Activated state; Decay; Dissociation; High pressure rate constant; Kinetics; Lifetime; Mass spectra; Metastable molecules; Predissociation; Quantum mechanics; Resonance scattering; 9366. **SP305.**
- Unimolecular dissociation; Franck-Condon factors; Theory of mass spectra; 10597. **SP305-1.**
- Unimolecular dissociation; Ion-molecule reaction; Photoionization; Propane; Quantum yields; Rare-gas resonance radiation; *J.75A No. 6, 607-612 (1971). SP305-3.*
- Unimolecular fragmentation; Ion-molecule reactions; Neopentane; Neutralization; Radiolysis; 12141. **SP305-3.**
- Unimolecular ion fragmentation; Deactivation; Ion-molecule reactions; Photoionization; Radiolysis; 11905. **SP305-3.**
- Unimolecular kinetics; Absolute rate theory; Association; Configuration interaction; Optical potential; Predissociation; Quantum mechanics; Resonance scattering; Scattering theory; 11401. **SP305-2.**
- Unimolecular kinetics; Absolute Rate Theory; Association; Configuration interaction; Quantum mechanics; Recombination decomposition; Resonance scattering; Scattering theory; 11512. **SP305-2.**
- Unimolecular reactions; Energy transfer; Hydrocarbons; Ionic fragmentation; Mass spectra; Photoionization; 14491. **SP305-6.**
- Unimolecular theory; Acetylene; Dissociation; Elementary reactions; Ethane; Ethylene; Hydrocarbons; Kinetics; Mechanisms; Methane; Olefins; Paraffins; Propylene; Pyrolysis; Rate constants; *SP357, pp. 17-25. SP305-4.*
- Unimolecular-dissociation; Cyclohexene; Ion-molecule reactions; Photoionization; Photolysis; 11901. **SP305-3.**

ness of solutions; Contractivity; Existence of solutions; Integral equations; Interreflections; Radiation transfer; 1408. SP305-6.

degree Kelvin; Kilogram; Measurement system; Meter; Physical constant; Second; Standard; 9797. SP305-1.

hour meter calibration; Watthour meter; Calibration; Watt comparator; Electrical energy unit; Metrology; Standards; 14881. SP305-7.

cell; Alpha; Density; Lamella thickness; Polyethylene; Reaction; Solvent; 12577. SP305-4.

cell; Annealing; Comonomer inclusion; Copolymers; Lamella thickness; Theoretical and experimental; Thickening; 14881. SP305-5.

cell; Annealing; Crystallization; Deformation; Density; Surface; Melt; Polyethylene; Solvent; Temperature; 10897. SP305-2.

cell; Annealing; Density; Lamella thickness; Mechanical; Polyethylene; Relaxation; Solvent; 18284. SP305-4.

cell; Crystal; Defects; Irradiation; Polyethylene; 12467. SP305-4.

cell; Growth technique; N-eicosane; Single crystal; 11875. SP305-3.

cell; X ray; Crystal surfaces; Density; Lamella thickness; Polymers; Polyethylene; 14724. SP305-7.

cell dimensions; Cleavage; Compilation; Crystal; Crystal space group; Crystal structure types; Density; Determination; Identification; Minerals; Optical properties; 15084. SP305-7.

cell dimensions AgNO<sub>3</sub>; AgNO<sub>3</sub>; Density AgNO<sub>3</sub>; Polymorphism; AgNO<sub>3</sub>; Thermal expansion AgNO<sub>3</sub>; 11044. SP305-2.

cell dimensions AgNO<sub>3</sub>; AgNO<sub>3</sub>; Density AgNO<sub>3</sub>; Polymorphism; AgNO<sub>3</sub>; Thermal expansion AgNO<sub>3</sub>; 11750. SP305-2.

circle; Weyl's Theorem; Convex hull; 177B Nos. 3 and 4, 1941 (1973). SP305-5.

cognition; Aberrations; Aspheric optics; Ellipsoidal mirror; Fermat's principle; Hamiltonian point characteristic; Limiting aperture; 14840. SP305-7.

cognition; Cassegrain; Reflecting objective; Spectrometers; Spherical aberration; Third-order theory; 14802. SP305-7.

capacitance; Volume dependence; Capacitance standards; Fused silica dielectric; Picofarad capacitor; Shock sensitivity; Stability of value; Ten picofarad capacitor; Transcendental ten picofarad capacitor; 9653. SP305-1.

measurement; Unit of time; Time standards; 10147. SP305-1.

time; Time standards; Unit of measurement; 10147. SP305-1.

voltage; Regional maintenance of the volt; Standard of surveillance of local units of voltage; Voltage standards; Voltage transport standards; 14935. SP305-7.

cost; Users chargers and costs; Users study; Users survey; Uncertainty journals; Demand; Document dissemination; Document dissemination; System design; 10299. SP305-1.

Adjoint; Hilbert's Theorem 90; Involvement; Normal; Spectrum; 14891. SP305-7.

Energy transfer; HF, DF, CO<sub>2</sub>; Linewidth; 13302. SP305-5.

Energy transfer; HF, DF, CO<sub>2</sub>; Linewidth; 14316. SP305-6.

groups; Weyl; Bounded representations; Burnside; Irreducibility; 15308. SP305-7.

heat pump; Heating and cooling; Military family housing specification; NBSIR 76-1029. SP305-8.

Soviet Socialist Republics; Building economics; Building systems; Construction industry; Housing; Precast concrete; Production capacity; Production management; Production methods; Standardization; SP334. SP305-3.

United States; Abnormal loading; Building; Codes; Design criteria; Multistory; Progressive collapse; Risk; Stability; Standards; Strength; 13475. SP305-5.

United States; Atmospheric research; Electromagnetic; Telecommunication; 9158. SP305.

United States; Blankets; Canada; Carpets; Clothing; Fabric flammability testing; Fabrics; Flammable Fabrics Act; Hazardous Products Act; Mattresses; Sleepwear; Standards; TN742. SP305-4.

United States; Units of measures; Changeover; Foreign trade; Metric system; Paper machines; Planning; Standards; 12991. SP305-4.

United States Government; Data codes; Data elements; Data processing systems standards; Federal information processing standards; Management information systems; FIPS PUB 19. SP305-3.

United States Government; Data processing systems standards; Federal Information Processing Standards; Formatted records; Information interchange; FIPS PUB 20. SP305-4.

United States measurement system; Accuracy; Calibrations; Conferences, 1966 Standards Laboratory; Foreign standards laboratories; Laboratory management; Measurements and standards; Measurement system; National Conference of Standards Laboratories; M291. SP305.

United States standards; Fire detection; Regulations; Smoke detectors; 16187. SP305-8.

Units; Absolute farad; Absolute ohm; Calculable capacitor; Cross capacitor; Electrical units; Farad; Ohm; 14927. SP305-7.

Units; Algebraic number fields; 14220. SP305-6.

Units; Briggs; Logarithmic scales; Octave; Optical density; Order; Symbols; 11057. SP305-2.

Units; Chemical kinetics; Guidelines; Recommended procedures for reporting data; Standardization; NBSIR 74-537. SP305-6.

Units; Coherent; Dimension; Quantity; Rationalization; Systems of equations; 11766. SP305-2.

Units; Constants; Definitions; Electricity; Electronics; Engineering; Metric; Symbols; SP368. SP305-4.

Units; Cyclotomic fields; Diophantine equations; 14132. SP305-6.

Units; Education; Metrology; Standards; 10176. SP305-1.

Units; Electromagnetic quantities; Frequencies; Standards; 10064. SP305-1.

Units; Giorgi; IEC, MKSA, SI; 12547. SP305-4.

Units; Magnetism; 16240. SP305-8.

Units; Metric system; Physical constants; SI; 9913. SP305-1.

Units of force; Absolute gravity; Deadweight; Force; Geodetic pendulum; Gravity; Gravity meter; Potsdam system; Standard gravity; TN491. SP305-1.

Units of length; Customary units for length; Engineering calculations; International System of Units; Length; System of units; 9911. SP305-1.

Units of measurement; Ancient measures; History; Measurement; SI units; 11456. SP305-2.

Units of Measurement; General Conference of Weights and Measures; International Committee of Weights and Measures; International System of Units; SI; Système International des Unités; SP330, 1972 Edition. SP305-4.

Units of measurement; General conference of weights and measures; International Committee of Weights and Measures; International System of Units; SI; Système International des Unités; SP330. SP305-3.

Units of measurement; International System of Units; Measurement units; Metric units; SI; Systems of units; 15481. SP305-7.

Units of measurement; Length; Mass; Temperature; Time; 10219. SP305-1.

Units of measurement; Specific strength; Specific Young's modulus; 12780. SP305-4.

- Units of measurement; Weights; History of measurement standards; Measures; Metric system; Standards; *SP447. SP305-8.*
- Units of measures; Changeover; Foreign trade; Metric system; Paper machines; Planning; Standards; United States; *12991. SP305-4.*
- UNIVAC 1100 Series OS; BBN-TENEX; IBM OS/360; Operating system security; Security flaws; Software security; Taxonomy of integrity flaws; *NBSIR 76-1041. SP305-8.*
- Univalent analytic function; Bieberbach's theorem; Coefficient estimate; *J78B No. 2, 95-96 (1974). SP305-6.*
- Universal coordinated time; Coordinate time; Local atomic standards; Metric time; National unified atomic standards; Proper time; *11331. SP305-2.*
- Universal product coding; Weights and measures; Administration; Automated checkstand systems; Conference; Consumers; Laws and regulations; Metrication; Open dating; Procedures; Technical requirements; Technology; *SP391. SP305-6.*
- Universal ratio sets; Direct-reading ratio sets; Ratio sets; *10002. SP305-1.*
- Universal symbol diagram approach; Automotive repair; Automotive repair effectiveness; Automotive service; Customer-mechanic relationship; Human factor considerations; *SP423, pp. 171-178 (Apr. 1976). SP305-8.*
- Universal testing machine; Force calibration; Large test facilities; Structural testing; *SP355. SP305-3.*
- Universal time; Frequency shift; Frequency stability; Hydrogen hyperfine transition; Hydrogen maser; Hydrogen storage; Hydrogen wall collisions; NBS-III; Teflon; *12069. SP305-3.*
- Universal time; Frequency translator; Phase shifter; *9152. SP305.*
- Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; Methane; NBS equation; Scaling laws; Statistical analysis; Steam; *15601. SP305-7.*
- Universality; Air constituents; Critical region parameters; Ethylene; Heavy noble gases; Helium; Linear model; Methane; NBS equation; Scaling laws; Statistical analysis; Steam; *JPCRD 5, No. 1, 1-52 (1976). SP305-8.*
- Universality; Critical exponents; Critical region; Homogeneity; Polar fluids; Scaling; Steam; *15733. SP305-8.*
- Universality; Van der Waals' equation; Vapor pressure curve; Coexistence curve; Corresponding states; Critical exponents; Critical isotherm; Rectilinear diameter; Scaling laws; Scaling symmetry; *14405. SP305-6.*
- Universe-complex structure; Complex structure; Electromagnetic fields; Physical axioms; *9603. SP305-1.*
- University computer systems; Computer-based systems; Information systems, university; *TN781. SP305-5.*
- University entrepreneurial activities; Academic risk; Business-Government-university relationship; Faculty risk; Time constraints; *SP388, pp. 37-43. SP305-6.*
- University facilities; Acoustical environment; Administrative procedures; Communication; Environmental criteria; Functional criteria; Interior finishes criteria; Luminous environment; Measurement; Outdoor lighting criteria; *SP361, Vol. 1, pp. 331-337. SP305-4.*
- University R. & D; Entrepreneurship; Environment for innovation; Government policy for innovation; Industry R. & D.; New enterprises; *SP388, pp. 23-28. SP305-6.*
- University systems; Directory; Equipment management software; Fiscal administration software; Grant/contract software; Personnel management software; Proposal/award software; Research administration; Software exchange; Software summary; Software survey; *TN916. SP305-8.*
- Unlike molecule interactions; Binary systems; Cryogenic fluids; Interaction second virial coefficients; Review; Solid-vapor equilibria; *15188. SP305-7.*
- Unloading; Failure probabilities; Lifetime assurance; Proof testing; Slow crack growth; *16039. SP305-8.*
- Unobtrusive monitoring; Computer terminal network; Hardware characteristics; Interactive information retrieval; Man-machine interface; Transparent stimulation; *TN732. SP305-4.*
- Unobtrusive observation; User behavior; User feed-back; Behavioral cost; Building performance; Cultural context; *SP361, Vol. 1, pp. 101-109. SP305-4.*
- Unpacking program; File editor; Fixed-field file editor; Format program; Insert program; Packing program; Reformat Report generator; *TN444. SP305-1.*
- Unperturbed dimension temperature coefficients; Energy component; Fluorine-containing polymers; Hydrocarbon backbone; *10142. SP305-1.*
- Unperturbed dimensions; Viscosity; 1-chloronaphthalene; 1-trichlorobenzene; Fractionation; Limiting viscosity number; Linear polyethylene; Mark-Houwink; Molecular weight; Stockmayer-Fixman; *14054. SP305-6.*
- Unperturbed vibrational frequencies; Vibrational spectrum; Fermi resonance; Infrared spectrum; Microwave spectrum; Rotational constants; *9873. SP305-1.*
- Unresolvable hazards; Consumer products; Product safety; Refrigerator standards; Risk measurement; Safety standards; *16131. SP305-8.*
- Unrecorded disk surface; Calibration factor; Computer platitude reference; Computer storage media; Disk calibration; Disk pack; Magnetic disk; Standard Reference Surface; *TN884. SP305-7.*
- Unrecorded reference; Average peak signal level; Comparison amplitude reference; Magnetic tape; Master standard; Saturation curves; Secondary standard; Signal level calibration; Standard reference materials; *SP260-18. SP305-1.*
- Unrecorded reference; Average signal peak level; Comparison amplitude reference; Magnetic tape; Master standard; Saturation curves; Secondary standard; Signal level calibration; Standard reference materials; *SP260-29. SP305-3.*
- Unrecorded references; Cassette tapes; Cassette transport; Computer amplitude reference; Magnetic tape cassette; Secondary standard; Standard reference material; *TN935-4.*
- Unreinforced concrete; Buckling; compression membrane; concrete; Deflection; equilibrium; Load eccentricity; mass; Stability; section cracking; Stress distribution; *12298. SP305-3.*
- Unresolved; Cross section; Interpolation; Monte Carlo; Probability; Resonance; Thinning; *SP425, pp. 447-450. SP305-4.*
- Unresolved; Cross sections; ENDF/B; Neutrons; Reaction; Resonances; *SP425, pp. 371-379. SP305-7.*
- Unrestricted copying; Useful service; Anti-trust violations; Better products; Copiers; Developer-producer's; Donor patents; Higher productivity; Improvements; Industrial relations; Industrial trade associations; "limit right"; *9780. SP305-1.*
- Unrestricted polymer chains; Monte Carlo analysis; Order; spans; Self-avoiding polymer chains; Shape of polymer chains; Spans; *15622. SP305-7.*
- Unsaturated alditols; Infrared spectra of acylamido derivatives; Carbohydrate reference materials; Metallo-organic standards; reference materials; Air-pollution studies; Oxidation of cyclic aromatic hydrocarbons; Sugars in solution; Conformational analysis; *TN405. SP305.*
- Unsaturated monomers; Block copolymers; Homogeneous anionic polymerization; Monodisperse polymers; *16039. SP305-8.*
- Unsaturated standard cells; Electromotive force; Saturated standard cells; Standard cells; *12037. SP305-3.*
- Unsolicited proposals; Certification programs, ETIP; Innovation; Life cycle costing; Procurement; Product test Specifications; *NBSIR 75-716. SP305-7.*
- Unsolicited proposals; VA; Certification programs, ETIP; Incentives; Innovation; Life cycle costing; Medical products



standards; Procurement policies; Product testing; Specifications; *NBSIR 76-997. SP305-8.*

Flow; Air; Analytical; Anemometer; Dynamic use; Experimental; Lag; *NBSIR 75-772. SP305-7.*

Soft glass pipets; Clinical; Contamination; Errors; Pipets; *15295. SP305-7.*

Entropy; Infrared spectrum; Matrix isolation; Thermal analysis; *12628. SP305-4.*

Estimates; Data analysis; Mean; Standard deviation; Statistics; *15640. SP305-7.*

Counter; 90° phase decoder; False counts; Incremental; Jitter; *12476. SP305-4.*

Fired furniture; Annual report to Congress; Blankets; Men's sleepwear; Flammability; Flammability reduction; Tests; Research; Sampling plans; Standards; Test equipment; *TN749. SP305-4.*

Fired furniture; Apparel; Burn injury; Carpets; Drapes; Fabrics; Flammability; Heat flux; Standards; Tents; Uniforms; *16144. SP305-8.*

Fired furniture; Apparel; Carpets; Curtains; Draperies; Tests; Flammability; Garments; Test methods; Textiles; *SP305-7.*

Fired furniture; Bedding; Fabrics; Flammability; Hazards; Tests; Test methods; *11709. SP305-2.*

Fired furniture; Blankets; Children's sleepwear; Fabric; Fabric flammability standards; FFACTS; Fire injuries; Flammable fabrics; Flammability standards priorities; Garments; Flammability; Garments; Sampling plans; *13972. SP305-8.*

Fired furniture; Cigarettes; Education; Fabric; Fire; Flammability; Hazard; Ignition source; Kitchen ranges; Mattresses; Sleepwear; Standards; *SP411, pp. 1-4. SP305-6.*

Fired furniture; Upholstery; Bedding; Beds; Blankets; Tests; Curtains; Drapes; Fabrics; Fibers; Fire; Flames; Flammability; Flammable; Floor coverings; Furnishings; Furniture; Interior furnishings; Mattresses; Pads; Pillow cases; *SP411. SP305-2.*

Fired furniture; Bedding; Beds; Blankets; Carpets; Curtains; Drapes; Tests; Fibers; Fire; Flames; Flammability; Flammable; Floor coverings; Furnishings; Furniture; Interior furnishings; Tests; Pads; Pillow cases; Pillows; Plastics; *TN498-1. SP305-2.*

Fired furniture; Bedding; Beds; Carbon dioxide; Carbon monoxide; Combustion products; Fire gases; Fire hazards; Furniture; Hazard; Oxygen; Smoke; Temperature; Toxicity; *NBS-C 73-1. SP305-8.*

Fired furniture; Waste receptacle; Buildings; Combustibility; Fire hazards; Flames; Furnishings; Heat release; Ignition; Smoke; Thermal radiation; *NBSIR 75-679. SP305-7.*

Fired furniture; Waste receptacle; Wood crib; Buildings; Fire intensity; Flame spread; Flames; Furnishings; Heat release; Interior furnishings; Material ignitability; Room fires; Smoke; *SP411, 125-31. SP305-6.*

Fired furniture; Cotton; Cushioning; Fire retardant; Furniture; Glowing; Inhibitor; Oxidative pyrolysis; Oxygen index; Smoke; Smoldering; *16224. SP305-8.*

Flame and lower bounds; Composite materials; Effective conductivity; Transport coefficients; Two phase materials; *SP305-2.*

Flame; Atmosphere; Hydrogen atoms; Nitrogen atoms;  $O_2(^1\Delta_g)$ ; Nitrogen atoms; Quenching reactions; *12090. SP305-3.*

Flame character; Alternate character; Centerline drawings; Character positioning; Character sets; Character shape; Character sizes; Font; Lower case character; Optical character Recognition; *FIPS PUB 32. SP305-6.*

Limit of frequency dependence; Vacuum dispersion; Velocity of light; *12797. SP305-4.*

Photosphere; Best-fit model; Carbon abundance; Molecular spectra; *13984. SP305-6.*

Upper photosphere; Best-fit model; Carbon abundance; Molecular spectra; *14430. SP305-6.*

Upper photosphere; Best-fit model; Carbon abundance; Molecular spectra; *14567. SP305-6.*

Upper photosphere; Carbon abundance; Molecular spectra; Non-LTE; Solar model; *15044. SP305-7.*

Upper state constants; Vibration-rotation interaction constants; Equilibrium structure; Ground state constants; Infrared spectrum; Nitrogen dioxide,  $2\nu_1$  band; Nitrogen dioxide,  $\nu_2$  band; *15694. SP305-7.*

Upper state rotational constants; C—H stretching region; Coriolis interaction; Ethane; Ground state rotational constants; Perpendicular band;  $\nu_2$ ; *10880. SP305-2.*

Upper yield point; Zone-refined iron; Flow stress; Impurity softening; Lattice solution; Lower yield stress; Nitrogen; Polycrystals; Solution hardening; *11946. SP305-3.*

Uranium; Absolute isotopic abundance; Ignition procedure; Isotopic standards, mass spectrometry; Stoichiometry; *SP260-27. SP305-3.*

Uranium; Actinide; Atomic energy levels; Isoelectronic sequence; Protactinium; Rare earth; Sliding spark discharge lamp; Spectrum; *15990. SP305-8.*

Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; Neptunium; Nobelium; Plutonium; Protactinium; Thorium; *13594. SP305-5.*

Uranium; Actinium; Americium; Berkelium; Californium; Curium; Einsteinium; Fermium; Ionization energy; Mendelevium; Neptunium; Nobelium; Plutonium; Protactinium; Thorium; *14257. SP305-6.*

Uranium; Activation analysis; Biological material; Fission track; Microanalysis; Nuclear track; *1266. SP305-2.*

Uranium; Alkali ions; Calcium; Charge exchange; Charge transfer; Cross section calculations; Ion-atom collisions; Rare-gas ions; *16126. SP305-8.*

Uranium; Alpha particles; Boron; Fission; Fragments; Recoiling fission fragments; Trace element glasses; *12844. SP305-4.*

Uranium; Alpha tracks; Boron; Botanical material; Fission tracks; Kale; Orchard leaves; *12269. SP305-3.*

Uranium; Atomic beam; Delayed coincidence; Imprisonment; Lifetime; Mean life; Resonance radiation; Transition probability; U I; *16322. SP305-8.*

Uranium; Biological materials; Neutron activation analysis; Rapid radiochemical separation; Solvent extraction; Trace analysis; *12817. SP305-4.*

Uranium; Boron; Fission track counting; Glass; Neutron activation analysis; Nuclear track technique; *12573. SP305-4.*

Uranium; Boron; Glasses; Image analyzing system; Liver; Microscopy; Neutron activation analysis; Nitrogen; Nuclear track technique; Orchard leaves; Steels; Track etch method; *12688. SP305-4.*

Uranium; Chromium; Isotopic ratios; Lead; Model ages; Nickel; Potassium; Rubidium; Strontium; Thorium; *13932. SP305-6.*

Uranium; Coal; Fission track technique; Fly ash; Mica detector; Polycarbonate detector; Rapid analysis; *15457. SP305-7.*

Uranium; Delayed coincidence;  $f$  value; Imprisonment; Lifetime; Mean life; Resonance radiation; Transition probability; U I; *15058. SP305-7.*

Uranium; Environmental samples; Neutron activation analysis; Tellurium; *15385. SP305-7.*

Uranium; Evaluation; Nuclear data; Plutonium; *SP425, pp. 313-316. SP305-7.*

Uranium; Fission track; Glass; Nuclear track technique; Standard Reference Material; Thermal stability; *13093. SP305-5.*

Uranium; Fission tracks; Flux monitors; Glass standards; Standard reference material; Thermal neutron irradiation; *SP260-49. SP305-6.*

Uranium; Fission tracks; Glass; Mica; Microscopy; Neutron dose measurements; *13173. SP305-5.*

- Uranium; Intermetallic compound; Phase diagram; Ruthenium; Solubility; *J.72A No. 1, 1-10 (1968). SP305-1.*
- Uranium; Intermetallic compounds; Iridium; Phase diagram; Solubility; *J.72A No. 1, 19-25 (1968). SP305-1.*
- Uranium; Intermetallic compounds; Phase diagram; Rhodium; Solubility; *J.72A No. 1, 11-17 (1968). SP305-1.*
- Uranium; Isotope dilution; Lead; Mass spectrometry; Silicate glass standard materials; Standard reference materials; Thallium; Thorium; *13313. SP305-5.*
- Uranium; Isotopes; Precise analysis; Thermal ionization; *10069. SP305-1.*
- Uranium; Nuclear enterprises; Nuclear materials; Plutonium; Safeguard; *SP425, pp. 199-201. SP305-7.*
- Uranium; Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; Diffusion; Electromigration; Europium; Grain boundary diffusion; Hydrogen; Impurity diffusion; Interdiffusion; Lanthanum; *J. Phys. Chem. Ref. Data 4, No. 1, 177-250 (1975). SP305-7.*
- Uranium dioxide; Activity coefficients in solid solutions; Equilibria with molten fluorides; Equilibrium of actinide oxides and molten fluorides; Heat of mixing in solid solutions; Ion exchange between solid oxides and molten fluorides; *SP364, pp. 331-341. SP305-4.*
- Uranium dioxide; Capacitor discharges; Heat capacity; High-speed measurements; High temperature; Thermodynamics; *NBSIR 75-793. SP305-7.*
- Uranium dioxide; Compressibility; Elastic constants; Elastic compliances; Single crystal; Velocity of sound; *9173. SP305.*
- Uranium glasses; U-238 fission decay constant; Fission track dating; Neutron flux; Neutron irradiation; Plateau annealing; *15379. SP305-7.*
- Uranium isotopes—<sup>233</sup>U, <sup>234</sup>U, <sup>235</sup>U, <sup>236</sup>U, <sup>238</sup>U; 0.001 to 30 MeV; Fission cross section ratios; Linear accelerator; Time-of-flight technique; *SP425, pp. 591-596. SP305-7.*
- Uranium monoxide; Uranium oxides; Vibrational frequency; High temperature matrix isolation; Infrared; *12262. SP305-3.*
- Uranium oxide; Alpha particles; Backscattering; Disintegration rate; Ranges; Self-absorption; *15808. SP305-8.*
- Uranium oxides; Vibrational frequency; High temperature matrix isolation; Infrared; Uranium monoxide; *12262. SP305-3.*
- Uranium spectrum; Lifetimes in U I; Oscillator strengths for U I; Transition probabilities for U I; *J. Res. 80A No. 1, 1-7 (1976). SP305-8.*
- Uranium spectrum; Oscillator strengths for U II; Transition probabilities for U II; *J. Res. 80A No. 3, 429-438 (1976). SP305-8.*
- Uranium, spectrum; Spectrum, uranium; Self-reversal; Uranium spectrum; *J.70A4-408, 323-324 (1966). SP305.*
- Uranium spectrum; Uranium, spectrum; Spectrum, uranium; Self-reversal; *J.70A4-408, 323-324 (1966). SP305.*
- Uranium-oxide; Alpha particles; Backscattering; Gadolinium-148; Polonium-210; Self absorption; *15807. SP305-8.*
- Uranium-233; Alpha particles; Americium-243; Angular correlations; Neptunium-237; Partial wave branching; *9799. SP305-1.*
- Uranium-234; Uranium-235; Uranium-238; Cross sections; Fission; Neptunium-237; Neutron reactions; Fast neutrons; Plutonium-239; *15020. SP305-7.*
- Uranium-235; Uranium-238; Cross sections; Fission; Neptunium-237; Neutron reactions; Pile neutrons; Plutonium-239; Uranium-234; *15020. SP305-7.*
- Uranium-235 cavity fission spectrum; Dosimetry; Fission cross sections; Neutron standards; *SP425, pp. 254-257. SP305-7.*
- Uranium-238; Cross sections; Fission; Neptunium-237; Neutron reactions; Pile neutrons; Plutonium-239; Uranium-234; Uranium-235; *15020. SP305-7.*
- Uranium-238 capture rates; Fast reactors; Fission chambers; Fission rates; Mass assay; MOL-ΣΣ facility; *SP425, pp. 258-261. SP305-7.*
- Uranyl ions; Europium ions; Fluorescence; Fluorescence standards; Inorganic ion-doped fibers; Microspectrofluorimetry; *15321. SP305-7.*
- Urban; Building research; Corporate; Historical; Humankind; International; National; *10621. SP305-1.*
- Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; Players; Sectors; Simulation; *S. 13511. SP305-5.*
- Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; Players; Sectors; Simulation; *S. NBSIR 73-108. SP305-6.*
- Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; Players; Sectors; Simulation; *S. NBSIR 73-110. SP305-6.*
- Urban; City; Computer; Director's; Economic; Games; Government; Metropolitan players; Sectors; Simulation; *S. NBSIR 73-113. SP305-6.*
- Urban; City; Computer; Directors; Economic; Games; Government; Metropolitan; Players; Sectors; Simulation; *S. NBSIR 73-114. SP305-6.*
- Urban analysis; East Lansing, Mich.; Facility location; Fitting; Simulation model; Systems analysis; *12018. SP305-7.*
- Urban design; Visual responses; Environmental design; Human factors; Interdisciplinary study; Relative motion; Transportation; *11318. SP305-2.*
- Urban health problems; Childhood diseases; Estimation; Human problems; Lead; Lead paint; Lead paint poisoning; Lead poisoning; Mathematical modeling; Models; *TN746. SP305-6.*
- Urban health problems; Housing; Housing survey; Lead; Lead hazard; Lead paint; Lead poisoning; Survey; *NBSIR 74-1035-6.*
- Urban Mass Transit Demonstration Project; Bus fringe problem; Bus priority lanes, bus priority lanes in District of Columbia; Bus transit operation; Exclusive bus lanes, express-bus freeway technology; Shirley Highway Corridor in Northern Virginia; *13710. SP305-5.*
- Urban mass transit demonstration project; Bus fringe problem; Bus priority lanes; Bus priority lanes in District of Columbia; Bus transit operation; Exclusive bus lanes; Express-bus freeway technology; Shirley Highway Corridor in Northern Virginia; *13734. SP305-5.*
- Urban particulates; Air pollution; Composite dust; Electron microanalysis; Electron microscopy; Submicrometer; *13735. SP305-5.*
- Urban planning; Acoustics; Noise measurement; Noise prediction; Noise (sound); Sound transmission; Tires; Transportation noise; Trucks; *12329. SP305-3.*
- Urban planning; Acoustics; Noise measurement; Noise prediction; Noise (sound); Sound transmission; Tire noise; Transportation noise; Trucks; *14873. SP305-7.*
- Urban planning; Acoustics; Noise measurement; Noise prediction; Noise (sound); Sound transmission; Tire noise; Transportation noise; Trucks; *14874. SP305-7.*
- Urban planning; Acoustics; Noise measurement; Noise prediction; Noise (sound); Sound transmission; Tire noise; Transportation noise; Truck; *15002. SP305-7.*
- Urban planning; User needs; Building systems; Performance; Buildings; Standards; Test methods; *BSSI. SP305-2.*
- Urban problems; Accounting models; City management; City location; Operations research; Simulation techniques; Systems analysis; *11445. SP305-2.*
- Urban problems; Operations research; Systems analysis; *11445. SP305-2.*
- Urban roads; Vehicle characteristics; Automobile fuel consumption; Congestion; Energy conservation; Fuel conservation; Impact assessment; Roadway operating environment; *NBSIR 74-595. SP305-6.*
- Urban transportation; Carpool matching; Carpools; Commuting; Transportation; *NBSIR 74-633. SP305-7.*

transportation; Data processing; Systems analysis; Transportation planning; 9474. SP305.

transportation; Data processing; Systems analysis; Transportation planning; 10164. SP305-1.

transportation; Fatigue life; Magnetic properties; Materials; Refrigeration; Superconducting magnets; Suspension; Transportation; 13954. SP305-6.

transportation; Future transportation; Regional transportation; Technology; Transportation; Transportation technology; 10342. SP305-1.

transportation; Modal choice; Systems analysis; Transportation planning; Travel forecasting; 10429. SP305-1.

ABS; Building systems; College buildings; Dormitories; Laboratories; Lighting/ceiling; Performance specifications; Procurement process; SCSD; Structure; Subsystem; 11. Vol. 1, pp. 303-315. SP305-4.

(University Residential Building System); User requirements; ABS (Academic Building Systems); EFL (Educational Facilities Laboratories, Inc.); Environmental criteria; Evaluation; Performance criteria; SP361, Vol. 1, pp. 297-301. SP305-4.

Acetanilide; Bomb calorimetry; Calorimetry; Carbozoic acid; Combustion; Creatinine; Fluorobenzoic acid; Nicotinic acid; Reference materials; Thermochemical standards; Thianthrene; 15441. SP305-7.

Ferroelectric; Libration; Molecular vibrations; Neutron scattering; Phase transitions; Potential barrier; Rotation; Thiourea; 10425. SP305-1.

Uric acid; Acetylation; Analysis of corn syrups; Carbohydrate structure and characterization; Cholesterol; Clinical chemistry; Creatinine; Di-O-isopropylidene-D-erythro- $\alpha$ -furanose; D-psicose, dextrose; TN457. SP305-1.

Uric acid; Analytical; Clinical standards; Crystallization; Divinylbenzene; EDTA; Ion exchange resins; Microstandards; Particulate matter; Reagents; Resin structure; Ultra-pure reagents; TN459. SP305-1.

Yeast; Amino acids; Food additives; Food problem; Production of synthetic food; Synthetic food materials; 15. SP305-2.

RM; Uric acid SRM; 6-amino-6-deoxy-D-glucose-6- $^{15}$ N; Bin analysis; Calcium carbonate SRM; Conformations; MR; Corn syrup analysis; Creatinine SRM; D-glucose (clinical SRM); Organic trace analysis; TN507. SP305-1.

Ure; AM General Bus; Arson; Critical radiant flux; Fire hazard; Flammability; Flooring radiant panel test; Metro; Motor vehicle safety standard 302; NBSIR 75-718. SP305-7.

Ure; Flame spread; Flammability; Full-scale fire tests; Laboratory fire tests; Motorail cars; Neoprene; Smoke; Transportation; NBSIR 75-971. SP305-8.

Ure foam; Cellular; Flexible; Slab; Uncured; PS13-69. SP305-1.

Ure; Acetylation; Analysis of corn syrups; Carbohydrate structure and characterization; Cholesterol; Clinical chemistry; Creatinine; Di-O-isopropylidene-D-erythro-pentulofuranose; D-psicose, dextrose; TN457. SP305-1.

Ure; Analytical distillation; Clinical standards; Crystallization; Divinylbenzene; EDTA; Ion exchange resins; Microstandards; Particulate matter; Reagents; Resin structure; Ultra-pure reagents; TN459. SP305-1.

Ure; VMA; 'Azobilirubin'; Bilirubin;  $\beta$ -NAD;  $\beta$ -NADH; Cholesterol; Cortisol; D-mannitol; Electron spin resonance; In magnetic resonance; Skew conformations; Standard reference materials; TN547. SP305-2.

Ure; SRM; 6-amino-6-deoxy-D-glucose-6- $^{15}$ N; Bilirubin; Ure; Calcium carbonate SRM; Conformations by NMR; Ure; Corn syrup analysis; Creatinine SRM; D-glucose (clinical SRM); Organic trace analysis; TN507. SP305-1.

Ure; Arsenic; Biological fluids; Chromium; Copper; Fluorine; Ure; Nickel; Reference materials; Selenium; Trace elements; Ure R 73-406. SP305-6.

URS (universal ratio set); VERI (versatile ratio instrument); DRRS (direct reading ratio set); Junction; Precision measurements; Ratio; Resistor; Four-terminal; Resistance decade; Transresistance; J.70C3-228, 169-172 (1966). SP305.

URSI; USA standard time zones; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); BIH; Buffer gases; CCIR; Clock ensembles; Clocks; Crystal aging; Cs frequency standard; Dissemination techniques; Monogr. 140. SP305-6.

URSI XVIIth General Assembly; International Scientific Radio Union Report; Measurement methods; Radio measurements; Radio standards; 11487. SP305-2.

U.S. AID; Africa; Asia; Engineering standards; Industrialization; Latin America; Less-developed countries; Measurement standards; NBS; Quality control; SP359. SP305-4.

U.S. AID; Calibration and testing; Ecuadorian Institute of Standardization (INEN); Field inspections; Mass, length, and volume standards; Metrology laboratory; Model law and regulations; Technical education; 13777. SP305-5.

U.S. Air Force; Audit examinations; Audit package; Precision Measurement Equipment Laboratories (PMEL); Technician skills; SP335, pp. 105-109. SP305-3.

U.S. Army programs in statistics; U.S. Government, services to; Wilks award; Wilks, S. S.; *Annals of Mathematical Statistics*; bibliography; Distribution-free methods; Educational testing; Mathematical statistics; Multivariate analysis; 16114. SP305-8.

U.S. foreign assistance; Computer education and training; Computer technology; Less-developed countries; Technology transfer; NBSIR 73-423. SP305-8.

U.S. frequency standard; Atomic beam; Cesium; Frequency standard; 9569. SP305-1.

U.S. Government; American National Standards; Computers, data elements and codes; Data processing systems; Federal Information Processing Standards; International Organization for Standardization; Management information systems; FIPS PUB 12-1. SP305-4.

U.S. Government; American National Standards; Computers, data elements and codes; Data processing systems; Federal Information Processing Standards; International Organization for Standardization; Management information systems; Standards; FIPS PUB 12. SP305-3.

U.S. Government; American National Standards; Computers; Data elements and codes; Data processing systems; Federal Information Processing Standards; Management information systems; International Organization for Standardization; Standards; FIPS PUB 12-2. SP305-6.

U.S. Government; American National Standards; Computers; Data; Data elements; Data processing; Information; Information processing; International Standards; FIPS PUB 45. SP305-8.

U.S. Government; Computers; Data elements and representations; Data processing systems; Federal Information Processing Standards; Management information systems; Standards; FIPS PUB 28. SP305-6.

U.S. Government; Computers; Data processing; Federal Information Processing Standards; Management; Standards; FIPS PUB 23. SP305-5.

U.S. Government, services to; Wilks award; Wilks, S. S.; *Annals of Mathematical Statistics*; bibliography; Distribution-free methods; Educational testing; Mathematical statistics; Multivariate analysis; Order statistics; Social sciences, services to; 16114. SP305-8.

U.S. legal volt; Volt; Voltage measurement; Electrical standards; Standard cells; 16268. SP305-8.

U.S. Metric Study; Commercial weights and measures; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; SI; SP345-3. SP305-3.

- U.S. Metric Study; Consumers; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; *SP345-7. SP305-3.*
- U.S. Metric Study; Department of Defense; International System of Units; Metric conversion; Metric system; Metrication; Metrication, costs and benefits of; Metrication, impact of; *SI; SP345-9. SP305-3.*
- U.S. Metric Study; Education; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; *SI; SP345-6. SP305-3.*
- U.S. Metric Study; Engineering standards; International standards; International System of Units; Metric conversion; Metric system; Metrication; Metrication and engineering standards; *SI; Standards; SP345-11. SP305-3.*
- U.S. Metric Study; Engineering standards; IEC; International standardization; ISO; Metric study; PL 90-472; Product certification; Standards; *SP345-1. SP305-2.*
- U.S. Metric Study; Federal Government; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; *SI; SP345-2. SP305-3.*
- U.S. metric study; Foreign trade; Harmonization of standards; Measurement systems; Metric system; *13121. SP305-5.*
- U.S. metric study; Foreign trade; Harmonization of standards; Measurement systems; Metric system; *13122. SP305-5.*
- U.S. Metric Study; Foreign trade; International System of Units; Metric conversion; Metric conversion, effect on foreign trade; Metric system; Metric usage; Metric usage, effect on foreign trade; Metrication; Metrication, impact of on foreign trade; *SP345-8. SP305-3.*
- U.S. Metric Study; International System of Units; Manufacturing industry; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Metric conversion; Metric system; Metric usage; *SI; SP345-4. SP305-3.*
- U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; Nonmanufacturing businesses; *SI; SP345-5. SP305-3.*
- U.S. Metric Study; International System of Units; Metric conversion; Metric system; Metric usage; Metrication; Metrication, attitudes toward; Metrication, costs and benefits of; Metrication, impact of; National Metric Study Conferences; *SI; SP345-12. SP305-3.*
- U.S. Metric Study; Metric conversion; Metric system; Metric usage; Metrication; Public Law 90-472; *SP345. SP305-3.*
- USA; Fire propagation test; Fire tests; Smoke density chamber; Smoke tests; Test comparison; UK; *16125. SP305-8.*
- U.S.A. standard time zones; USNO time and frequency; Astronomical time measurements; Clock synchronization; Clocks; Coordinated Universal Time (UTC); Frequency; Frequency standards; International Atomic Time (TAI); *TN649. SP305-6.*
- USA standard time zones; UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); BIH; Buffer gases; CCIR; Clock ensembles; Clocks; Crystal aging; Cs frequency standard; Dissemination techniques; *Monogr. 140. SP305-6.*
- Usability; Communications networks; Computer networks; Cost; Interactive service; Measurement; Measures; Performance; *TN908. SP305-8.*
- Usable frequency range; Electrical excitation; Lowest resonance frequency; Mechanical excitation; Piezoelectric accelerometer; *TN487. SP305-1.*
- USASCII; ASCII; Character codes; Code extension; Character sets; Collating sequence; Computer codes; Transmission codes; Information code structure; Internatic information code; Russian code standard; Standard information codes; *TN478. SP305-1.*
- USASI X3.1; Information processing standards; ISO DR OCR character sets National Bureau of Standards; OCR-A character set; OCR-B character set; OCR character sets; OCR forms; OCR paper; Optical character recognition; *11264. SP305-2.*
- Use; Valid; Biological; Chemical; Physical; Reliable; Specification; *13259. SP305-5.*
- Use of computers; Building heat transfer analysis; Enclosure; Environmental engineering; Heating and air conditioning; *B5539. SP305-4.*
- Use of filters; High resolution detector; Mössbauer; Quantitative analysis; Source-sample-detector geometry; Tin compounds; *11420. SP305-2.*
- Use of heavy papers in preparative chromatography; Chromatography on seed-test paper; Large-scale paper chromatography; Radioactive carbohydrates; *J71A1-436, 49 (1967). SP305.*
- Use of structural analogs; Analysis and performance tests combined; Computerized analysis; Plane frame structures; Results; *SP361, Vol. 1, pp. 535-543. SP305-4.*
- Use statistics; Evaluation; National Bureau of Standards; Online information retrieval systems; *15378. SP305-7.*
- Use, storage, or surplus; Data for decision; Standards laboratory management; Test equipment records; *SP335, pp. 95. SP305-3.*
- Use type tests for comfort and effectiveness; Cloth Firemen's turnout coats; *NBS-GCR-74-25. SP305-8.*
- Useful arts; Adversary proceedings; Antitrust; Deferred examination; Independent Patent Office; Innovation; Invention; Patent system; *SP388, pp. 103-110. SP305-6.*
- Useful service; Anti-trust violations; Better products; Copied Developer-producer's; Dormant patents; Higher productivity Improvements; Industrial stimulus; Industrial trade associations; "limit right"; Material/product/process improvement; *9780. SP305-1.*
- User; Value; Building; Competitive market; Construction; Evaluation; Materials; Performance; Price; *SP361, Vol. 1, 141-148. SP305-4.*
- User behavior; User feedback; Behavioral cost; Building performance; Cultural context; Unobtrusive observation; *SP361, Vol. 1, pp. 101-109. SP305-4.*
- User behavior; User satisfaction; Verbalized response; Attitude scale; Building performance; Comparative user response; *SP361, Vol. 1, pp. 111-119. SP305-4.*
- User characteristics; Human activities; Performance criteria; Physical environment; Planning and design basis; *SP361, Vol. 1, pp. 13-22. SP305-4.*
- User charges; Automated information retrieval; Cost benefit; Public good; Scientific and technical information; Social public good; Subsidization; Total cost recovery; *TN908. SP305-7.*
- User competence; End-user satisfaction; Performance evaluation; Performance factors; Resource utilization; *SP406, 39-42. SP305-7.*
- User control functions; Visual displays; Alphanumeric display; ASCII Code; Cathode-ray-tube displays; Control function; Display terminals; Interactive terminals; Remote control terminals; Soft copy; Test editing displays; *14652. SP305-7.*
- User control of computing; Users' performance evaluation; Users' performance measures; Computer performance; evaluation; Computer resource allocation; Computer set parameters; Computer system performance; Cost/effectiveness; Cost/performance; *SP406, pp. 65. SP305-7.*



evaluations; Visual environment; Color schemes; Field studies; Glare; Illuminance; Matrix analysis; Multidimensional scaling; Performance criteria; Preference scaling; Scaling; *SP361, Vol. 1, pp. 121-129. SP305-4.*

experience; Auditing; Cost/benefit analysis; Data base; data base management; DBMS; Government regulation; management objectives; Privacy; Security; Standards; technology assessment; *SP451. SP305-8.*

experiences; Data base applications; Data base management systems; Selection criteria; Software features; System evaluation; System features; *TN887. SP305-7.*

feedback; Behavioral cost; Building performance; Cultural context; Unobtrusive observation; User behavior; *SP361, Vol. pp. 101-109. SP305-4.*

fees; Wastewater; Water pollution; Water resources; Cost sharing; Economic efficiency; Environment; Equity; Financing; Grants; Pollution abatement; *16564. SP305-8.*

fees; Water pollution; Cost sharing; Efficiency; Equity; Financing; Nonplant treatment; Sewage treatment; *NBSIR 479. SP305-6.*

groups; Computers; Data base management; Governments; management information systems; Public services; Security; standards; *15923. SP305-8.*

identification; Brooks Bill; Computer security; Congressional concern; Controlled accessibility; Data sensitivity; measures of risk; Standards; *14988. SP305-7.*

needs; Age and perception; Complexity; Home range; Life cycle; Life space; Loss continuum; Macro space; Mastery; micro space; Redundant cuing; Sensory acuity; Sensory deterioration; Spatial sets; *SP361, Vol. 1, pp. 57-62. SP305-*

needs; Analytical procedures; Architectural programming; buildings; Performance requirements; Problem seeking; statement of the whole problem; *SP361, Vol. 1, pp. 43-55. SP305-4.*

needs; Bid evaluation; Building systems; Criteria and tests; locational facilities; Life cost; Performance specifications; prototypes; S.C.S.D., R.A.S.; Strategy; Systems approach; technology and feasibility; *SP361, Vol. 1 pp. 317-330. SP305-4.*

needs; **BREAKTHROUGH**; Building performance; Construction; Contracting; Performance assessment; Performance concept; Performance products; Performance testing; *14661. SP305-6.*

needs; Building systems; Performance of buildings; Standards; Test methods; Urban planning; *BSSI. SP305-2.*

needs; Buildings; Design process; Performance; Performance concept; Performance-judgement approach; proposed international generic building classifications; proposed international subsystem classification models; systems approach; *SP361, Vol. 1, pp. 201-206. SP305-4.*

needs; Carpets; Durability; Economics; Field studies; flooring; Floor coverings; Life-cost; Maintenance; *TN783. SP305-5.*

needs; Carpets; Floor coverings; Government; Performance; Procurement; Specifications; Standards; Tests; *4822. SP305-6.*

needs; User support; Computers; Consultation; Documentation; Information support; Networks; On-line support; *4802. SP305-5.*

needs; User values; Analysis; Cost; Evaluation financing; housing; Improvements; Individual; Inspection; Minority groups; Performance; Real world; Rehabilitation; Synthesis; stem; *SP361, Vol. 1, pp. 345-356. SP305-4.*

needs; Value system; Cost; Design; Industrialization; Performance; *SP361, Vol. 1, pp. 131-139. SP305-4.*

needs, aspirations, values; Arguments; Decision-making; IS (Issue Based Information System); Negotiations; research, structured planning discourse; *SP361, Vol. 1, pp. -100. SP305-4.*

User procedures; Automated networks; Automated systems; Data formats; Distributed data base; Information networks; Information system standards; On-line system reactive typewriters; Retrieval; Time-sharing computers; *10575. SP305-1.*

User protocols; Command languages; Computers; Man-machine systems; Networks; System commands; *TN877. SP305-7.*

User protocols; Command languages; Computer; Man-machine systems; Networks; System commands; *NBSIR 75-744. SP305-7.*

User protocols; Network access procedures; Networking; Standardization; *TN799. SP305-5.*

User requirements; ABS (Academic Building Systems); EFL (Educational Facilities Laboratories, Inc.); Environmental criteria; Evaluate; Performance criteria; Performance design; *SP361, Vol. 1, pp. 297-301. SP305-4.*

User requirements; Building; Performance criteria; Performance evaluation; Structure; Tall buildings; *12779. SP305-4.*

User requirements; Buildings; Components; Design procedures; Experience in use; Materials; Performance evaluation; Performance requirements; *SP361, Volume 1. SP305-4.*

User requirements; Buildings; Components; Design procedures; Experience in use; Materials; Performance evaluation; Performance requirements; *SP361, Volume 2. SP305-4.*

User requirements; Value system; Building design; Design process; Evaluation; Performance; Systems approach; *SP361, Vol. 1, pp. 237-248. SP305-4.*

User requirements; Vibration; Deflection; Load capacity; Performance criteria; Performance evaluation; Stiffness; Strength; Structural engineering; Structures; *SP361, Vol. 1, pp. 261-266. SP305-4.*

User satisfaction; Verbalized response; Attitude scale; Building performance; Comparative user response; User behavior; *SP361, Vol. 1, pp. 111-119. SP305-4.*

User satisfaction measurement; Reduction of measurement data; Software measurement tools; Total computing capacity; *SP406, pp. 27-31. SP305-7.*

User services; Computer network; Network access machine; Network measurement machine; Network user; Resource sharing; *14274. SP305-6.*

User support; Computers; Consultation; Documentation; Information support; Networks; On-line support; User needs; *TN802. SP305-5.*

User values; Analysis; Cost; Evaluation financing; Housing; Improvements; Individual; Inspection; Minority groups; Performance; Real world; Rehabilitation; Synthesis; System; User needs; *SP361, Vol. 1, pp. 345-356. SP305-4.*

User-oriented computing system; Accuracy; Algorithms; ANSI FORTRAN; Documentation; Error checking; Machine independent; OMNITAB II operating system subprograms; OMNITAB II source listing; Programming techniques; Transportable; *SP339. SP305-3.*

Users; Acquisition; CODASYL; Computer; Data base management; Designers; Evaluation; Selection; *15668. SP305-7.*

Users; Administration; Batch; Computing; Documentation; Remote; Service; *13718. SP305-5.*

Users; American Chemical Society; Chemical and physical properties; Compilation; Data; NSRDS; Office of Standard Reference Data; Questionnaire; Survey; *10123. SP305-1.*

Users; National Standard Reference Data System; Properties data; Survey; *14498. SP305-6.*

Users; Properties data; National Standard Reference Data System; Scientific and technical librarians; Special Libraries Association; Survey; *12626. SP305-4.*

Users' activities; Users' characteristics; Organization of performance factors; Performance requirements; Required conditions; *SP361, Vol. 1, pp. 23-30. SP305-4.*

Users' characteristics; Organization of performance factors; Performance requirements; Required conditions; Users' activities; *SP361, Vol. 1, pp. 23-30. SP305-4.*

- Users chargers and costs; Users study; Users survey; Announcement journals; Demand; Document dissemination; Important dissemination; System design; Unit price; *10299. SP305-1.*
- Users manual; Character codes for scientific text; Computerized text processing; NBS computer system; Scientific text; *13598. SP305-5.*
- User's manual; Double precision; Elementary functions; Equation solver; Linear equation solver; Magnetic tape utility program; Multiple-precision computing; Multiple-precision programming; PRECISE; Triple-precision; *TN446. SP305-1.*
- Users of air traffic data; Air traffic analyses; Air traffic data; Standard reference air traffic data; *NBSIR 73-422. SP305-6.*
- Users of NBS radio broadcasts; Atomic frequency standards; Aviation industry; Electric power industry; National Measurement System; Position location; Shipping and boating industries; Standards laboratories; Telephone industry and specialized carriers; *SP445-1. SP305-8.*
- Users' performance evaluation; Users' performance measures; Computer performance evaluation; Computer resource allocation; Computer service parameters; Computer system performance; Cost/effectiveness; Cost/performance; Performance evaluation; *SP406, pp. 65-71. SP305-7.*
- Users' performance measures; Computer performance evaluation; Computer resource allocation; Computer service parameters; Computer system performance; Cost/effectiveness; Cost/performance; Performance evaluation; User control of computing; *SP406, pp. 65-71. SP305-7.*
- Users' requirements; Assembly; Compatibility of components; Physical properties of a building, of a product; *SP361, Vol. 1, pp. 161-164. SP305-4.*
- Users study; Users survey; Announcement journals; Demand; Document dissemination; Important dissemination; System design; Unit price; Users chargers and costs; *10299. SP305-1.*
- Users survey; Announcement journals; Demand; Document dissemination; Important dissemination; System design; Unit price; Users chargers and costs; Users study; *10299. SP305-1.*
- Users-Producers; Creative-partnership; Management; Operating; Procurement; Services; *SP383. SP305-5.*
- User-system interface; Data collection techniques; Interactive system interface; Retrieval systems; *14254. SP305-6.*
- Uses; Color; Environment; Experimenting with; Harmony; Hues; Illumination; Light; Personal uses; Relationships; *CIS6. SP305-7.*
- USNO; Astronomical time; Atomic time; Frequency; International atomic time; Management; NBS; Standard time; Time; *13062. SP305-5.*
- USNO; Astronomical time; Atomic time; Frequency; International Atomic Time; Management; NBS; Standard time; Time; *14265. SP305-6.*
- USNO; VLF propagation; WWVL; Effect of mass on frequency; Flicker noise; NBS; Noise correlation; NSS; Optimum filter; Phase noise; Radio propagation; Time comparison; *11241. SP305-2.*
- USNO time and frequency; Astronomical time measurements; Clock synchronization; Clocks; Coordinated Universal Time (UTC); Frequency; Frequency standards; International Atomic Time (TAI); International Radio Consultative Committee (CCIR); *TN649. SP305-6.*
- USNO time scale; Atomic clock comparisons; Clock comparisons; Loran-C; NBS time scale; Portable clocks; Time synchronization; TV timing; *12584. SP305-4.*
- U-spin equalities; Octet symmetry breaking; Q plots; Reaction cross section; Strong interactions; Sum rules; Super-resonance; *9938. SP305-1.*
- U.S.S.R.; Electron devices; Electron tubes; Semiconductors; *TN715. SP305-4.*
- U.S.S.R.; Electron devices; Electron tubes; Semiconductors; *TN835. SP305-6.*
- U.S.S.R.; Electron devices; Electron tubes; Semiconductors; *TN526. SP305-2.*
- U.S.S.R.; Western Europe; Optical character; Pattern recognition; Recognition; Research; Speaker identification; Speech recognition; Standardized fonts; *11142. SP305-2.*
- USSR standards; Standards in Russia; Standard reference materials; Standard samples; *SP260-30. SP305-3.*
- UTC; Atomic clocks; Clock acceleration effect; Definition the second; Frequency accuracy; Frequency standards; General relativity; Gravitational redshift; Primary frequency standards; Proper time; *16236. SP305-8.*
- UTC (NBS); UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); 1 Buffer gases; CCIR; Clock ensembles; Clocks; Crystal aging; Cs frequency standard; Dissemination techniques; Figure of merit; Flicker noise; *Monogr. 140. SP305-6.*
- UTC (USNO); Accuracy; Allan variance; Atomic frequency standards; Atomic time scales; AT(NBS); BIH; Buffer gases; CCIR; Clock ensembles; Clocks; Crystal aging; Cs frequency standard; Dissemination techniques; Figure of merit; Flicker noise; Frequency stability; *Monogr. 140. SP305-6.*
- UTC(NBS); AT(NBS); Clock dispersion; Clock ensembles; Frequency and time standards; International Atomic Time; Loran-C; Model of clock stability; Optimum time prediction; Precision and accuracy of timing; Time coordinatization; Synchronization, and dissemination; *13998. SP305-6.*
- Utilidors; Ventilation; Air leakage; Arctic; Central heating distribution systems; Construction materials; Drainage; Insulation; Permafrost; Seasonal frost; Snow drifting; *BSS66, 122-135. SP305-7.*
- Utilities; Biology; Career; Ecological; Electricity; Energy; Environment; Fusion; Medicine; Nuclear; Power; Radial Reactor; Research; *TN888. SP305-7.*
- Utilities; Conservation; Conversion; Cost; Cryogenic Economics; Embrittlement; Energy; Hydrogen; Industrial instrumentation; Liquefaction; Literature; Materials; Production; Solar; Storage; Transmission; Transportation; *SP305-7.*
- Utilities; Economic incentives; Housing development; Integrated utilities; *NBSIR 75-721. SP305-7.*
- Utilities; Utility services; Water reuse; Community service; Cooling; Electric power; Energy conservation; Heating; Incineration; Integrated utility systems; Resource conservation; *16153. SP305-8.*
- Utilities for housing; Air conditioning; Air pollution; Cooling; Utility systems; Electric power generation; Energy conservation; Energy costs; Heat recovery, power systems; Total energy systems; *14221. SP305-6.*
- Utilities for housing; Utility system performance; Air conditioning; Air pollution; Central utility systems; Data acquisition system; Efficiencies; Electrical power; Energy conservation; Energy costs; Fuel utilization; Heat recovery; Total energy systems; *NBSIR 75-711. SP305-7.*
- Utilities system; Batteries; Dental materials; Industry; Integrated utility system; Mass spectrometry; Motorized crimping; Ozone puzzle; Portable transceiver batteries; RF power meter; *DIM/NBS 60, No. 3, 1-24 (1976). SP305-8.*
- Utility; Computer; Evaluation; Measurement; Performance; Service; *15093. SP305-7.*
- Utility functions; Computer algorithm; Iterative equation; Linear scheduling; Parametric analysis; Transportation verification; *10185. SP305-1.*
- Utility services; Water reuse; Community services; Cooling; Electric power; Energy conservation; Heating; Incineration; Integrated utility systems; Resource conservation; Utility services; *16153. SP305-8.*

system performance; Air conditioning; Air pollution; Central utility systems; Data acquisition system; Efficiencies; Electrical power; Energy conservation; Energy costs; Fuel utilization; Heat recovery; Total energy systems; Utilities for housing; *NBSIR 75-711. SP305-7.*

system performance; Energy conservation in housing; Energy systems for housing; Environmental quality in housing; Field study of energy systems; Total energy systems; *61, Vol. 1, pp. 419-430. SP305-4.*

system performance; Waste heat recovery; Data acquisition system; Electrical power system; Energy conservation; Utilization; Thermal efficiency; Thermal energy system; Thermal energy system; *14216. SP305-6.*

theory; Children's sleepwear; Decision analysis; Flammability; Fabrics; Probability assessment; Standards; *13596. SP305-6.*

tunnel safety; Coordination of utility facilities; National electrical safety code; Safety standards for utility tunnels; Underground communication facility; Underground electric utilities; *14671. SP305-6.*

vacuum; Vacuum; Medium-vacuum measurements; Manometer; Thermometer; *TN420. SP305.*

vacuum measurement; Water; Manometers; Mercury; Thermometer; Oil; *9413. SP305.*

electroabsorption; IR optics; Laser damage; Multiphoton processes; *SP435, pp. 389-394 (Apr. 1976). SP305-8.*

Electron energy loss;  $N_2O$ ; Oscillator strengths; *15998. SP305-8.*

Electron impact; Chemical analysis; Electron impact spectrometry; *11559. SP305-2.*

Electron spectroscopy; Autoionization; Configuration interaction; Inner shell excitation; Photoionization cross section; Resonance profiles; *13741. SP305-5.*

Electromagnetic; Visible; Averaging sphere; Deuterium arc lamp; Fluorescent wavelength converter; Grating; Spectrophotometry; Standard reference materials; Ultraviolet; *80A No. 5, 631-636 (1974). SP305-6.*

Electron and x-ray photoemission; X-ray photoemission; Barium compounds;  $\beta$ -tungsten compounds; Effects of oxidation; Electronic density of states; Europium (Eu); Lanthanides; Matrix elements; Photoemission; Rare-earth metals; *SP323, pp. 217-231. SP305-4.*

Excitation; X-ray excitation; Cathode-ray excitation; Luminescence; Luminescence standards; Phosphors; Quantum efficiencies; Radiation efficiencies; *J. Res. 80A No. 3, 401-406 (1976). SP305-8.*

Electron generation; Doubling; Laser; Potassium pentaborate; *132. SP305-8.*

Exciters; Xenon excitation functions; Electron impact; *14609. SP305-6.*

Electroabsorption;  $CClF_3$ ;  $CCl_2F_2$ ; Electron energy loss; Ions; *15995. SP305-8.*

Electroabsorption; Electron energy loss; Electron impact; Neon 11; Freon 12; *15755. SP305-8.*

Electroabsorption; Electron energy loss; Electron impact; Halocarbon 11,  $CFCl_3$ ; Halocarbon 12,  $CF_2Cl_2$ ; *15997. SP305-8.*

Electroabsorption; Angular distributions; Bond geometry; Desorption; Energy distributions; Oxygen on (100) tungsten; Surface bonds; *15089. SP305-7.*

Electroabsorption; Work function; Carbon contamination; Electronic density of states; Photoemission; Tungsten (W); *123, pp. 199-203. SP305-4.*

Building; Building classification; Building thermal mass; Building thermal performance; Building thermal time constant; Housing systems; Industrialized housing; Mass per unit area; Generation BREAKTHROUGH; *NBSIR 75-678. SP305-8.*

Properties of walls; Floors and panels; Moisture condensation; Thermal bridges; Thermal insulation; *TN710-7. SP305-5.*

U(12) theory; Baryon; Branching ratio; Decay; Decay width; Meson; Resonances; Spurious; Symmetry breaking; *9166. SP305.*

$U^{235}$ ;  $U^{238}$ ;  $E=0.25$  eV; Eta; Fission neutrons per absorption; Nuclear reactions; *SP425, pp. 553-556. SP305-7.*

$U-233$ ,  $U-235$ ,  $Pu-239$ ,  $Pu-241$ ; Westcott g-factors; Cf-252 spontaneous fission neutron yield;  $E=0.0253$  eV and 20 °C Maxwellian; Fission-neutron yields; Half-lives of  $U-233$ ,  $U-234$ ,  $Pu-239$ ; *SP425, pp. 286-292. SP305-7.*

$U^{235}$ ;  $E=0.25$  eV; Eta; Fission neutrons per absorption; Nuclear reactions;  $U^{235}$ ; *SP425, pp. 553-556. SP305-7.*

$U-235$ ; Fast neutron fission; Prompt fission neutron spectrum; T-O-F technique; *SP425, pp. 631-634. SP305-7.*

$U^{235}$  fission cross section; Linac source; Neutron energy 0.8 to 20 MeV; Relative to n-p scattering; *SP425, pp. 615-619. SP305-7.*

$U-238$  fission decay constant; Fission track dating; Neutron flux; Neutron irradiation; Plateau annealing; Uranium glasses; *15379. SP305-7.*

- V  $\tau$ ; Zeeman effect; Configurations in V  $\tau$ ; Configurations ( $3d + 4s$ )<sup>4</sup><sub>4p</sub> in V  $\tau$ ; Configuration interaction; Energy levels of V  $\tau$ ; First spectrum; *J.74A No. 2, 141-156 (1970)*. **SP305-2.**
- VA; Certification programs; ETIP; Incentives; Innovation; Life cycle costing; Medical products and standards; Procurement policies; Product testing; Specifications; Unsolicited proposals; *NBSIR 76-997*. **SP305-8.**
- Vacancies; Absorption; Electrophoretic transport; Ionic segregation; Laser; Momentum transfer; Phototransport; Scattering; *SP462*, pp. 365-370 (Dec. 1976). **SP305-8.**
- Vacancies; Activation analysis; Concentrated alloys; Correlation factor; Diffusion; Random alloy; *12167*. **SP305-3.**
- Vacancies; Alloys; Aluminum; Copper-aluminum; Nonisothermal diffusion; Silver-aluminum; Thermomigration; *15774*. **SP305-8.**
- Vacancies; Alloys; Atom jump frequencies; Binary alloys; Correlation factor; Diffusion; Multicomponent alloys; Random alloy model; *12411*. **SP305-4.**
- Vacancies; Atom transport; Diffusion in crystals; Kinetic diffusion equations; Mechanism for diffusion; Random walk; *15421*. **SP305-7.**
- Vacancies; Binary alloys; Calculations; Correlation factors; Diffusion; Kirkendall shift; Thermodynamic equations for diffusion; *10579*. **SP305-1.**
- Vacancies; Binary alloys; Diffusion; Diffusion coefficients; Kirkendall shift; Thermodynamic equations for diffusion; *9928*. **SP305-1.**
- Vacancies; Born model calculation; Calcium fluoride; Energies of formation; Frenkel pairs; Interstitials; Ionic crystals; Point defects; Schottky pairs; *10551*. **SP305-1.**
- Vacancies; Correlation factors; Diffusion; Dilute alloys; Impurities; Jump frequencies; Solute atoms; *9464*. **SP305.**
- Vacancies; Vibrational states; Calculations; Electronic states, energies of formation; Energies of motion; Interstitials; Point defects; Theory; *M287*. **SP305.**
- Vacancies; Young's modulus; Internal friction; Lanthanum titanate; Phase change; Resonance; Strontium titanate; *9447*. **SP305.**
- Vacancies in dislocations; Dislocation geometry; Dislocations; Kinks; Pipe diffusion; *SP317*, pp. 563-576. **SP305-3.**
- Vacancy; Anisotropic elastic continuum; Coherent scattering; Differential scattering cross-section; Elastic scattering; Isotropic elastic continuum; Lattice; Local force model; Long wavelength; Neutron scattering; Point defects; *12701*. **SP305-4.**
- Vacancy; Annealing; Chain fold; Chain rotation; Chain twisting; Defect; Dielectric relaxation; Mechanical relaxation; Polychlorotrifluoroethylene; Polyethylene; Polymer; Semicrystalline; *9462*. **SP305.**
- Vacancy; Concentration; Crystal; Defect; Dislocation; Energy; Equilibrium; Force; Hydrostatic; Pressure; *10337*. **SP305-1.**
- Vacancy; Correlation factor; Diamond structure; Diffusion; Impurity; Jump frequency; *12900*. **SP305-4.**
- Vacancy; Correlation factor; Diffusion; Diffusion; Electric field; Random walk; Symmetry plane; *15367*. **SP305-7.**
- Vacancy concentrations; Vacancy flow; Vacancy wind; Correlation factor; Deviations from thermodynamic equilibrium; Diffusion; Distortions of vacancy flux; *11214*. **SP305-2.**
- Vacancy condensation; Angular distribution of cavities; Cavitation; Copper; Creep; Grain boundaries; Grain boundary sliding; Nucleation of cavities; Segregation nodes; *13091*. **SP305-5.**
- Vacancy diffusion; Computer simulation; Correlation factor for diffusion; Diffusion; Matrix calculation; Monte Carlo calculation; Theory of diffusion; *16073*. **SP305-8.**
- Vacancy diffusion mechanisms; Atomic diffusion mechanisms; Diffusion; Random walk; Review article; Thermodynamic diffusion equations; *15539*. **SP305-7.**
- Vacancy flow; Vacancy wind; Correlation factor; Deviations from thermodynamic equilibrium; Diffusion; Distortions of vacancy flux; Vacancy concentrations; Vacancy flow; *11214*. **SP305-2.**
- Vacancy wind effect; Correlation factor; Diffusion; Divacancy; Driving force for diffusion; Impurity diffusion; Ion velocity; Nonrandom diffusion; *15542*. **SP305-7.**
- Vacuum ultraviolet; Autoionization; CO<sub>2</sub>; COS; CS<sub>2</sub>; Electroexcited states; Heats of formation; Ionization thresholds; Mass spectrometry; O<sub>2</sub>; Photoionization; Radicals; Rydberg series; *10274*. **SP305-1.**
- Vacuum; Accuracy; Calibration; Measurement; Pressure; Standards; *10269*. **SP305-1.**
- Vacuum; Accuracy; Calibration; Measurement; Pressure; Standards; *11051*. **SP305-2.**
- Vacuum; Adsorption; Barium fluoride; Electric hygrometry; Humidity; Thin films; *J.71C3-255, 199-207 (1967)*. **SP305.**
- Vacuum; Air; Antiresonances; Cantilever beam; Damp mass-loading; Resonances; Tip rotary inertia; Transmissibility; *11092*. **SP305-2.**
- Vacuum; Anneal; Argon; Beryllium-oxide; Calibrations; Helium; Thermal-cycling; Thermocouple; Tungsten-rhenium; *12425*. **SP305-4.**
- Vacuum; Anti-migration traps; Cold shrouding; Contamination; Environment; Ion pumping; Low pressure; Low temperature; Pumping; Ultraclean; *SP336*, pp. 661-668. **SP305-3.**
- Vacuum; Boron nitride; Ceramic; Metallizing; Ultrasonic; *11883*. **SP305-3.**
- Vacuum; Chemical analysis; Contamination; Organic residues; Outgassing; Polymeric materials; Residual gas analysis; Test facility; *SP336*, pp. 1-24. **SP305-3.**
- Vacuum; Cryopumping; Ion pump; Pumping speed; Space simulation chamber; *SP336*, pp. 683-698. **SP305-3.**
- Vacuum; Dissociation; Fragment ions; Ionization; Mass spectrometer; Molecule; NO<sub>2</sub>; NO<sub>2</sub>+N<sub>2</sub>O<sup>+</sup>; Photoionization threshold; Ultraviolet; *J.71A5-467, 371-378 (1967)*. **SP305.**
- Vacuum; Flange design; O-ring; Seal; *12533*. **SP305-4.**
- Vacuum; Medium-vacuum measurements; Manometer; Micrometer; U-tube; *TN420*. **SP305.**
- Vacuum; Vacuum gauge; Vane gauge; Molecular flow; Monte Carlo; *11155*. **SP305-2.**
- Vacuum; Vacuum measurement; Barium nitride; Dissociation equilibria; Nitrides; Nitrogen; Thermodynamic properties; *J.74A No. 1, 45-49 (1970)*. **SP305-2.**
- Vacuum; Valve; Constant volume; Equation of state; Pressure; *13013*. **SP305-4.**
- Vacuum; Vibration; Viscosity; Acoustics; Fluid mechanics; Force; Gravity; Humidity; Pressure; Strain; *SP300. Volume*. **SP305-4.**
- Vacuum; Water tight; Bridge; Deep-sea thermometer; High pressure; Oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure vessel; Resistance; Resistance thermometer; Thermometer; Thermometer leads; *TN894*. **SP305-8.**
- Vacuum; Wavelengths; Carbon; Copper; Germanium; Ritz; Spectrum; Standards; Ultraviolet; *9338*. **SP305.**
- Vacuum; Weightlessness; Ablation; Particulate radiation; Entry; Space simulation; Thermal radiation; *SP336*. **SP305.**
- Vacuum and pressure test; Adhesives; Boil test; Bonding; Corrosion; Grading; Interior; Moisture content; Overlay; Plywood; Shear test; *PS1-66*. **SP305.**



vacuum ball joints; Vacuum cylinder joints; Vacuum seals; Vacuum techniques; Vacuum valves; Fluorocarbon bearings; Fluorocarbon gaskets; Modular vacuum components; 11716. SP305-2.

Vacuum breaker; Water supply; Backflow; Backflow prevention; Back pressure; Back-siphonage; Cross connections; Path hazard; Potable water; NBSIR 76-1070. SP305-8.

Vacuum calibration; Vacuum measurements; Clausius factors; Free molecular flow; Precision ionization gauges; Stable vacuum systems; Transmission probability; 13143. SP305-5.

Vacuum cleaner; Analysis of variance; Covariance matrix; Denial; Interaction; Matrix; Residuals; Two-way table; 748 No. 3, 149-154 (1970). SP305-2.

Vacuum cylinder joints; Vacuum seals; Vacuum techniques; Vacuum valves; Fluorocarbon bearings; Fluorocarbon gaskets; Modular vacuum components; Vacuum ball joints; 11716. SP305-2.

Vacuum deposition; Calibration; Carbon films; Low temperature; Thermometry; NBSIR 74-355. SP305-7.

Vacuum dispersion; Velocity of light; Upper limit of frequency dependence; 12797. SP305-4.

Vacuum effect; Ablation material; Thermal conductivity; 5336, pp. 197-208. SP305-3.

Vacuum environment; Alumina; Dissociation; Melting point; 054. SP305-1.

Vacuum fusion; Inert gas fusion; Oxygen; Ferrous standard reference materials; CO by infrared absorbance; Homogeneity; Certified value; Eighteen cooperating laboratories; M260. SP305.

Vacuum gauge calibration systems; Vacuum gauges; Volumetric pressure dividers; Bayard-Alpert gauges; Cold cathode vacuum gauges; Conductance pressure dividers; Hot cathode vacuum gauges; Ionization gauges; TN298. SP305.

Vacuum gauges; Volumetric pressure dividers; Bayard-Alpert gauges; Cold cathode vacuum gauges; Conductance pressure dividers; Hot cathode vacuum gauges; Ionization gauges; Vacuum gauge calibration systems; TN298. SP305.

Vacuum gauge; Vane gauge; Molecular flow; Monte Carlo; vacuum; 11155. SP305-2.

Vacuum gauge calibration; Reference transfer method; SP336, pp. 141-150. SP305-3.

Vacuum index; Vacuum measurement; Bibliography; Low pressure measurement; Techniques of vacuum measurement; 050. 35, Supplement 1. SP305.

Vacuum instrument; X-ray spectrometer; Double crystal instrument; 9665. SP305-1.

Vacuum joints; Vacuum valves; Wring tests; Capacitance; Diaphragm pressure transducer; Environment; Meniscus characteristics; Mercury manometer; Pressure; Pressure regulator; 11628. SP305-2.

Vacuum measurement; Barium nitride; Dissociation equilibria; Nitrides; Nitrogen; Thermodynamic properties; Vacuum; 744 No. 1, 45-49 (1970). SP305-2.

Vacuum measurement; Bibliography; Low pressure measurement; Techniques of vacuum measurement; Vacuum index; 050. 35, Supplement 1. SP305.

Vacuum measurement; Pressure gauges; Pressure measurement; 1266. SP305-1.

Vacuum measurement; Water; Manometers; Mercury; Micrometer; Oil; U-tube; 9413. SP305.

Vacuum measurements; Calibration; Capacitance-diaphragm gauge; Medium vacuum range; Micromanometer; Stable pressure generation; 11442. SP305-2.

Vacuum measurements; Clausius factors; Free molecular flow; Precision ionization gauges; Stable vacuum systems; Transmission probability; Vacuum calibration; 13143. SP305-5.

Vacuum measurements accuracy; Vacuum standards; Absolute vacuum reference standards; Dynamic pressure division; Manometry; McLeod gage; Static pressure division; Vacuum measurements accuracy; 12677. SP305-4.

Vacuum monochromators; Autoionization; Electronic; Excited states;  $H_2O^+$ ;  $NH_3^+$ ;  $NH_4^+$ ;  $OH^+$  ions; Heats of formation; Ionization thresholds; Mass spectrometer; Photoionization; 1.70A6-417, 459-463 (1966). SP305.

Vacuum photodiodes; Biplanar vacuum photodiodes; Lasers; Laser energy measurements; Laser power measurements; 13481. SP305-5.

Vacuum polarization; Weak interactions; Gauge invariance; Quantum electrodynamics; Renormalization; Time-ordering operator; 14429. SP305-6.

Vacuum pump; Vapor pressures; Cryopumping; Cryosorption; Gettering; 13634. SP305-5.

Vacuum pumps; Vapor pressure; Cryopumps; Getters; Ion pumps; Pumping efficiency; Sublimation pumps; 11513. SP305-2.

Vacuum seals; Vacuum techniques; Vacuum valves; Fluorocarbon bearings; Fluorocarbon gaskets; Modular vacuum components; Vacuum ball joints; Vacuum cylinder joints; 11716. SP305-2.

Vacuum spectrometer; Computing; Digital readout; Electron probe; Gold analysis; Isotope dilution method; Laser probe; Liquid Q-switch; Mass attenuation coefficients; Microphotometer; Optical spectrometer; Plasma torch; Platinum analysis; TN422. SP305-1.

Vacuum standards; Absolute vacuum reference standards; Dynamic pressure division; Manometry; McLeod gage; Static pressure division; Vacuum measurements accuracy; 12677. SP305-4.

Vacuum strength; Alumina; Delayed fracture; Grinding of ceramics; Microstructure; Stress corrosion; SP348, pp. 89-96. SP305-4.

Vacuum system; Apparatus; Beam diagnostic; Ion source; Ion transportation; Laboratory space simulation; SP336, pp. 189-196. SP305-3.

Vacuum techniques; Capture coefficient; Cryocondensation; Cryogenically cooled surfaces; Cryopump; Partial pressure measurements; Pressure calibration with vapor pressures; Pressure anisotropy; Pumping efficiency; Pumping speed; Speed factor measurements; 10265. SP305-1.

Vacuum techniques; Vacuum valves; Fluorocarbon bearings; Fluorocarbon gaskets; Modular vacuum components; Vacuum ball joints; Vacuum cylinder joints; Vacuum seals; 11716. SP305-2.

Vacuum tests; Water jet; Flow rate tests; High speed movies; Particle velocities; SP336, pp. 905-914. SP305-3.

Vacuum tubes; ASTM; History; Semiconductors; 14438. SP305-6.

Vacuum ultraviolet; Energy transfer; Excited species; Fluorescence; Gas phase;  $N_2O$ ; Photolysis; 10208. SP305-1.

Vacuum ultraviolet; Absolute radiation detector; Absorption measurements; Filters; GM counter; Sensitive detector; 14903. SP305-7.

Vacuum ultraviolet; Absorption; Analysis; Gas; Photochemistry; Spectroscopy; TN476. SP305-1.

Vacuum ultraviolet; Absorption; Analysis; Gas; Photochemistry; Spectroscopy; 11493. SP305-2.

Vacuum ultraviolet; Absorption; Carbon monoxide; Forbidden transition; High resolution; Spectrum; 9330. SP305.

Vacuum ultraviolet; Absorption coefficient; Bond dissociation energies;  $CN\ B^2\Sigma$ ;  $CN\ A^3\Pi$ ;  $NCN$ ; Photodissociation; 13318. SP305-5.

Vacuum ultraviolet; Absorption coefficient;  $Cl_2$ ; Emission; Electronic energy;  $OCCl_2$ ; Photodissociation; 12289. SP305-3.

Vacuum ultraviolet; Absorption cross-section; Absorption spectra; Argon; Photoionization; 11065. SP305-2.

Vacuum ultraviolet; Absorption spectrum;  $A^3\Pi$ ; Fluorescence; Fluorescence quenching;  $HN_3$ ;  $NH\ c^3\Pi$ ; Photodissociation; 11075. SP305-2.

- Vacuum ultraviolet; Acetonitrile; Cyanoacetylene;  $C_2H$ ; Heat of formation; Photodissociation; Photoionization; 13748. SP305-5.
- Vacuum ultraviolet; Acetylene; Bond dissociation energy; Bromoacetylene;  $C_2$ ;  $C_2H$ ; Fluorescence; Photodissociation; 14986. SP305-7.
- Vacuum ultraviolet; Acetylene; Combination; Ethane; Ethylene; Flash photolysis; Gas phase; Hydrogen; Hydrogen deuteride; Insertion; Methane; Methylene; Rate; 9286. SP305.
- Vacuum ultraviolet; Adsorption; Excited  $NH$ ; Excited  $NH_2$ ; Fluorescence;  $NH_2$ ; Photodissociation; 10411. SP305-1.
- Vacuum ultraviolet;  $Al_2O_3$  films; Electron attenuation length; Electron mean free path; Photoelectric effect; Photoelectric threshold; Thin films; 11085. SP305-2.
- Vacuum ultraviolet; Ammonia; Fluorescence; Jovian; 13933. SP305-6.
- Vacuum ultraviolet; Ammonia; Jupiter; Methane; Photochemistry; 11375. SP305-2.
- Vacuum ultraviolet; Analytical; Atomic emission; Detector; Gas chromatography; Spectroscopy; 12267. SP305-3.
- Vacuum ultraviolet; Anodized aluminum; Chromium; Gold; Photoelectric yield; Radiometric standards; Rare gas ionization chamber; Thermopiles; Tungsten; 14708. SP305-6.
- Vacuum ultraviolet; Apparatus description; Flash photolysis; 9287. SP305.
- Vacuum ultraviolet; Arc; Hydrogen; Negative ion; Plasma; Resonance; 15652. SP305-7.
- Vacuum ultraviolet; Arc emission; Oxygen; Transition probability; 12667. SP305-4.
- Vacuum ultraviolet; Atomic lines; Br; C; Flow lamp; N; O; Photochemistry; 10895. SP305-2.
- Vacuum ultraviolet; Atomic physics; Synchrotron radiation; 15795. SP305-8.
- Vacuum ultraviolet; Atomic spectrum; Calculated wavelengths; Nitrogen; Spectrum; 9339. SP305.
- Vacuum ultraviolet; Atoms; Chlorine; Deactivation; Kinetic; Relaxation; 11294. SP305-2.
- Vacuum ultraviolet;  $BCl_3$ ; Bond dissociation energies;  $B_2Cl_4$ ; Heats of formation; Ions; Mass spectrometry; Radicals; 10900. SP305-2.
- Vacuum ultraviolet;  $BF_3$ ; Bond energies;  $B_2F_4$ ; Heats of formation; Ionization; Mass spectra; Photoionization; 10901. SP305-2.
- Vacuum ultraviolet; Bond dissociation energy;  $CS_2$ ; CSA<sup>II</sup>;  $D_0$ (SC-S); Fluorescence; Photodissociation; 12828. SP305-4.
- Vacuum ultraviolet; Bond dissociation energy; Diazomethane; Heat of formation; 12367. SP305-3.
- Vacuum ultraviolet; Bond dissociation energy; Fluorescence; HNC; NCO  $A^2\Sigma$ ; NH  $A^2\Pi$ ,  $c^4\Pi$ ; Photodissociation; 12012. SP305-3.
- Vacuum ultraviolet; Bond dissociation; Heats of formation; Ionization energies; 10538. SP305-1.
- Vacuum ultraviolet; Bond dissociation energies; BrCN; ClCN; CN;  $C_2N_2$ ; FCN; Fluorescence; HCN; ICN; Photodissociation; 10896. SP305-2.
- Vacuum ultraviolet; Bond dissociation energies; Heats of formation; Ionization energies; Mass spectra;  $NF_3$ ;  $ONF_3$ ; 11288. SP305-2.
- Vacuum ultraviolet; Bond energy; Fluorescence; Photodissociation; Predissociation; Spin conservation rules; 14143. SP305-6.
- Vacuum ultraviolet; BrCN; ClCN; CN  $B^2\Sigma$ ; Energy partition; HCN; ICN; Photodissociation; 13319. SP305-5.
- Vacuum ultraviolet; Carbene; Ethylene; Ethylidene; Gas phase; Photolysis; Solid phase; 9415. SP305.
- Vacuum ultraviolet;  $CF_4$ ;  $C_2F_6$ ;  $C_3F_8$ ;  $C_4F_{10}$ ;  $CF_3H$ ;  $CF_3Cl$ ;  $CF_3Br$ ;  $CF_3I$ ; Heats of formation; Ionization energies; 172A No. 5, 479-485 (1968). SP305-1.
- Vacuum ultraviolet; CH; Flash photolysis; Hydrogen; Kinetic spectroscopy; Methane; Nitrogen; Rate constant; 95. SP305-1.
- Vacuum ultraviolet; Chain reaction; N-butane; N-butane-1-Photolysis; 11062. SP305-2.
- Vacuum ultraviolet; Chlorine monofluoride; Dissociative ionization; Fluorine; Heats of formation; Hot bands; Hydrogen fluoride; Ion pairs; Mass spectrometry; Molecular ionization; Photoionization; 12390. SP305-4.
- Vacuum ultraviolet; Chlorine monofluoride; Dissociation energy; Ionization energy; Mass spectrometry; Photoionization; 12064. SP305-3.
- Vacuum ultraviolet; Chlorine monofluoride; Dissociative ionization; Fluorine; Heats of formation; Hot bands; Hydrogen fluoride; Ion pairs; Mass spectrometry; Molecular ionization; Photoionization; 12148. SP305-3.
- Vacuum ultraviolet;  $CH_3CN$ ; Dissociation; HCN; Heats of formation; Ionization; Mass spectrometry; Threshold energy; 10902. SP305-2.
- Vacuum ultraviolet; Collisional stimulations;  $N_2O$ ; O'S-O emission; Photodissociation; 13323. SP305-5.
- Vacuum ultraviolet; Continuum emission coefficient; Hydrogen arc; Radiometry; 13652. SP305-5.
- Vacuum ultraviolet; Cyclopentene; Ion-molecule reaction; Mass spectrometry; Methyl cyclopentene; Photoionization; 14488. SP305-6.
- Vacuum ultraviolet; Dissociation; Heats of formation; Hydrogen ionization; Mass spectrometer; Photoionization;  $SO_2$ ; 10904. SP305-2.
- Vacuum ultraviolet; Dissociation energy; Fluorine; Mass spectrometry; Photoionization; 12391. SP305-4.
- Vacuum ultraviolet; Electron accelerator; New facility; Radiation; Storage ring; Synchrotron radiation; 15026. SP305-7.
- Vacuum ultraviolet; Electron energy losses; Germanium; Methyl; Optical constants; Oscillator; Strengths; Sum rule; 11367. SP305-2.
- Vacuum ultraviolet; Enthalpy of formation; Ions; Mass spectrometry; Methyl; Methylene; Photoionization; Radiolysis; 15351. SP305-7.
- Vacuum ultraviolet; Ethane; Free radicals; Ions; Photolysis; Primary processes; 11904. SP305-3.
- Vacuum ultraviolet; Ethynyl ion; Heat of formation; Ionization threshold; Mass spectrometry; 13716. SP305-5.
- Vacuum ultraviolet; Fluorescence; Nitric oxide; Nitrogen dioxide; Nitrosyl chloride; 9416. SP305.
- Vacuum ultraviolet; Fluorescence; Hydrzoic acid; NH; Photolysis; 9417. SP305.
- Vacuum ultraviolet; Franck-Condon factors; Mass spectrometry; Photoionization; Rydberg series; 13293. SP305-5.
- Vacuum ultraviolet; Free radical; Infrared; Matrix isolation; Methyl; Methylene; Photolysis; Rotation; Spectrum; Ultraviolet; 10404. SP305-1.
- Vacuum ultraviolet; Halogen molecules; Hot bands; Ionization threshold; Mass spectrometry; Monochromator; 12404. SP305-4.
- Vacuum ultraviolet; Heat of formation;  $OSCl_2$ ; Photodissociation;  $SO$ ; 12739. SP305-4.
- Vacuum ultraviolet; Heating effects; Photoelectron yield; Spectral response; Tungsten; Ultra-high vacuum; 11469. SP305.
- Vacuum ultraviolet; Hydrogen arc plasma; Radiation standards; Radiometric calibrations; 13877. SP305-6.
- Vacuum ultraviolet; Insertion; Isobutane; Isobutylidene; Photolysis; 9414. SP305.
- Vacuum ultraviolet; Irradiances; Radiometry; Spectrometric calibration; Standard source; Synchrotron radiation; 177 No. 6, 761-774 (1975). SP305-7.
- Vacuum ultraviolet; Isotope effect; Methane; Quantum yield; 11041. SP305-2.
- Vacuum ultraviolet; Optical constants; Polystyrene; Reflectance; electron energy loss; 10784. SP305-1.

- uum ultraviolet; Optical spectra, atomic; Reference wavelengths; Standard wavelengths; *J. Phys. Chem. Ref. Data* No. 4, 825-896 (1974). **SP305-6.**
- uum ultraviolet; Oxygen adsorption; Photoelectric effect; tungsten; 10800. **SP305-1.**
- uum ultraviolet; Oxygen adsorption; Photoelectric effect; tungsten; 10115. **SP305-1.**
- uum ultraviolet; Photolysis; Propylene; 10795. **SP305-1.**
- uum ultraviolet; Photolysis; Propane chain decomposition; 878. **SP305-1.**
- uum ultraviolet; Vibronic structure; Borazine; Gas phase; Matrix isolation; Photochemistry; Spectra; 12459. **SP305-4.**
- uum ultraviolet; Wall-stabilized; Arc; Calibrations; hydrogen; Plasma; Radiometry; Spectral radiance; 12591. **SP305-7.**
- uum ultraviolet; Wall-stabilized arc; Blackbody calibrations; hydrogen continuum; Primary standard; Radiometry; 15412. **SP305-7.**
- uum ultraviolet; Wavelength; Energy levels; Silicon; Spectroscopy; Standards; 10001. **SP305-1.**
- uum ultraviolet; Wavelengths; Energy levels; Interaction parameters; Praseodymium; Third spectrum; *J.73A No. 3*, 33-381 (1969). **SP305-1.**
- uum ultraviolet; Window materials; Actinometry; Experimental; Light sources; Photochemistry; 12942. **SP305-4.**
- uum ultraviolet; Window seal; Electric discharge; resonance lamp; 9279. **SP305.**
- uum ultraviolet; Xenon; Atomic spectra; Krypton; photoionization; 9208. **SP305.**
- uum ultraviolet; Xenon; Cross section; Inner-shell excitation; Krypton; Photoionization; 16541. **SP305-8.**
- uum ultraviolet; Xenon; 4d absorption; Atomic structure; inner shell;  $N_{IV}$ ; Resonance cross section profiles; Spectroscopy; 15054. **SP305-7.**
- uum ultraviolet; 4d photoabsorption; Atomic structure; argon;  $N_{IV}$  edges; Spectroscopy; 15845. **SP305-8.**
- uum ultraviolet emission spectra; Vacuum ultraviolet lasers; Electron-promotion model; Ion-atom collisions; Solar corona; 6621. **SP305-8.**
- uum ultraviolet laser; Adiabatic approximation; Band lengths;  $D_2$  Lyman emission; Emission wavelengths; Traveling wave excitation; 12514. **SP305-4.**
- uum ultraviolet lasers; Electron-promotion model; Ion-atom collisions; Solar corona; Vacuum ultraviolet emission spectra; 6621. **SP305-8.**
- uum ultraviolet nitrosyl chloride; Absorption spectra; fluorescence excited states; Nitrogen dioxide; Photodissociation; 10669. **SP305-1.**
- uum ultraviolet photochemistry; Emission spectroscopy; energy level of diatomic molecules; Energy transfer; Gas phase kinetics; Rare gas photosensitization; 11127. **SP305-2.**
- uum ultraviolet photolysis; Acetylene formation; Electron scavenger; Ion pair yields; Methane; Pulse radiolysis; *J.77A No. 1*, 109-114 (1973). **SP305-5.**
- uum ultraviolet photolysis; Acetylene;  $C_2$ ;  $HC_2$ ; Infrared spectrum; Mulliken bands of  $C_2$ ; Swan bands of  $C_2$ ; Ultraviolet spectrum; 10246. **SP305-1.**
- uum ultraviolet photolysis; Alkane; Electronically excited molecule; Hydrogen iodide; N-butane; Radical scavenging; 4762. **SP305-7.**
- uum ultraviolet photolysis; Argon reactions;  $H(2S)$  reaction with  $Ar$ ;  $HA_r^+$ ; Infrared spectrum; Interstitial H atom spectrum; Matrix isolation; Proton affinity; 13545. **SP305-5.**
- uum ultraviolet photolysis;  $CCl_3^+$ ; Chloroform; Electron attachment;  $HCCL_3^+$ ;  $HCCL_3^-$ ;  $HCCL_3$ ; Infrared spectrum; Matrix isolation; Photoionization; 12242. **SP305-3.**
- uum ultraviolet photolysis;  $CICF_2$ ;  $DCCIF_2$ ;  $DCCLF_2$ ;  $FCCL_2$ ;  $HCCIF_2$ ;  $HCCl_2F$ ; Infrared spectrum; Matrix isolation; 13334. **SP305-5.**
- Vacuum ultraviolet photolysis; CN free radical; Cyanogen; Cyanogen bromide; Cyanogen chloride; Cyanogen fluoride; Halogen isocyanides; Hydrogen cyanide; Hydrogen isocyanide; Infrared spectrum; Matrix isolation technique; Ultraviolet spectrum; 10233. **SP305-1.**
- Vacuum ultraviolet photolysis; C atom reaction; CN reaction;  $HN_3$  photolysis; Infrared spectrum; Matrix isolation; NCO free radical; NO reaction;  $O^3$  atom reaction; Ultraviolet spectrum; 10405. **SP305-1.**
- Vacuum ultraviolet photolysis;  $CO_2$ ; Energy transfer; Quantum yield; Rare gas; Sensitization; 11781. **SP305-2.**
- Vacuum ultraviolet photolysis; Equipartition of energy; Hydrogen iodide; Methylene insertion reaction; Propane; Radical scavenging; 14492. **SP305-6.**
- Vacuum ultraviolet photolysis; Free radical scavenging; Hydrocarbons; Isobutane; Neopentane; Primary photochemical processes; Quantum yields; 14996. **SP305-7.**
- Vacuum ultraviolet photolysis; Acetylene; Discharge; Ethynyl ( $HC_2$ ); Infrared spectrum; Interstellar molecule; Matrix isolation; Structure; 15003. **SP305-7.**
- Vacuum ultraviolet photolysis;  $CH_3$ ;  $CH_3SH$ ; Dimethyldisulfide; Infrared spectrum; Matrix isolation; Pyrolysis; s-trithiane; Thioformaldehyde; Ultraviolet photolysis; 15334. **SP305-7.**
- Vacuum ultraviolet photolysis; Infrared spectrum; Matrix isolation; NF;  $NF_2$ ;  $NF_3$ ; Ultraviolet spectrum; 14440. **SP305-6.**
- Vacuum ultraviolet radiation standards; Continuum radiation; Diodes; Irradiance standard; Synchrotron radiation; Transfer standard detectors; 14997. **SP305-7.**
- Vacuum ultraviolet reflectance spectra; Augmented plane wave method (APW); Electron density of states;  $GeO_2$ ; Indirect transition; Optical properties; Slater exchange; *SP323*, pp. 111-113. **SP305-4.**
- Vacuum ultraviolet region; Band assignments; Carbon monoxide; Electronic spectrum; Emission spectrum; High resolution spectrum; 14848. **SP305-7.**
- Vacuum ultraviolet region; Carbon monoxide; Diatomic spectrum; Molecular constants; Perturbations; Rotational analysis; 11130. **SP305-2.**
- (Vacuum ultraviolet) sensitized decomposition; Energy transfer; Hydrocarbons; Photochemistry; Quantum yields; Rare gas levels; 11128. **SP305-2.**
- Vacuum ultraviolet spectroscopy; Dissociation energies; HCl; Ionization; Mass spectrometry; Methyl halides; *J.72A No. 4*, 281-293 (1968). **SP305-1.**
- Vacuum ultraviolet spectroscopy; Dissociation energies;  $Fe(CO)_5$ ; Heats of formation; Ionization; Mass spectrometry;  $Ni(CO)_4$ ; *J.74A No. 2*, 233-238 (1970). **SP305-2.**
- Vacuum ultraviolet standards; Atomic spectrum of silicon; Carbon spectra; Electrodeless discharge; Germanium spectra; Nitrogen spectra; Silicon i; Silicon spectra; 9337. **SP305.**
- Vacuum UV; Absolute reaction rates; Diazomethane; Flash photolysis; Ketene; Kinetics; Methylene  $CH_2$ ; 11721. **SP305-2.**
- Vacuum uv; Absorption spectra; Apparatus and method; Energy transfer; Gases; Kinetics of reaction; Photochemistry; 13951. **SP305-6.**
- Vacuum UV; Alzak; Thermal control coatings; Ultraviolet degradation; *SP336*, pp. 383-392. **SP305-3.**
- Vacuum uv; Bond dissociation energies; Fluorine; Heats of formation; Hydrogen fluoride; Ionization thresholds; Mass spectra; Photoionization; 12392. **SP305-4.**
- Vacuum UV; Oscillator strengths; Methyl radicals; Methylene; Spectroscopy; 12290. **SP305-3.**
- Vacuum uv monochromator; Autoionization;  $BrCN$ ;  $C_2N_2$ ;  $CICN$ ;  $FCN$ ; Heats of formation;  $ICN$ ; Mass spectrometer; Photoionization; Rydberg levels; 10338. **SP305-1.**
- Vacuum UV spectrum; Formaldehyde; Integrated oscillator strength; Photoionization coefficient; Rydberg spectrum; SCF calculations; 12505. **SP305-4.**

- Vacuum valves; Fluorocarbon bearings; Fluorocarbon gaskets; Modular vacuum components; Vacuum ball joints; Vacuum cylinder joints; Vacuum seals; Vacuum techniques; 11716. SP305-2.
- Vacuum valves; Wring tests; Capacitance; Diaphragm pressure transducer; Environment; Meniscus characteristics; Mercury manometer; Pressure; Pressure regulator; Vacuum joints; 11628. SP305-2.
- Vacuum vane gauge; Design criteria; Port-vane geometry; 11931. SP305-3.
- Vacuum vaporization;  $Al_2O_3$ ; Chemical doping; Complex equilibria; Purification (evaporative); 15333. SP305-7.
- Vacuum vaporization;  $Al_2O_3$ ; Complex equilibria; Convective-diffusion; Evaporative rate; Purification (evaporative); Solutal-capillary; Thermal capillary convection; 13923. SP305-6.
- Vacuum vaporization;  $Al_2O_3$ ; Complex equilibria; Convective-diffusion; Evaporative rate; Purification (evaporative); Solutal-capillary; Thermal capillary convection; 15968. SP305-8.
- Vacuum-fusion analysis; Gases in metals; Hot extraction; Hydrogen; Kjeldahl; Nitrogen; Oxygen; 12788. SP305-4.
- Vacuum-tube voltmeters; Calibration histories; Equal likelihood; Oscilloscopes; RX meters; SP335, pp. 81-84. SP305-3.
- Vacuum-ultraviolet; Atomic; Collisions; Continuous; Deexcitation; He;  $He_2$ ; Metastable; Radiative; Spectra; Theory; 9367. SP305.
- Vacuum-ultraviolet; Chlorine; Energy levels; Ground configurations; Slater-parameters; Sulfur; 11013. SP305-2.
- Vacuum-ultraviolet photolysis; Acetylene;  $C_2$  radical;  $C_2^-$  ion; Cesium; Electron affinity; Matrix isolation; Photoionization; Swan bands; Ultraviolet spectrum; 11405. SP305-2.
- Vacuum-ultraviolet photolysis; Alkali metal atoms; Electron bombardment; Infrared spectrum; Matrix isolation; Nitrite anion; Nitrogen dioxide; Photodetachment; Photoionization; 11697. SP305-2.
- Vacuum-ultraviolet photolysis; Allene;  $C_3H_4$  ( $n=0$  to 3); Infrared spectrum; Isotopic substitution; Matrix isolation; Methylacetylene; Ultraviolet spectrum; 14237. SP305-6.
- Vacuum-ultraviolet photolysis; Bichloride anion;  $ClHCl$  free radical; Electron attachment;  $HCl$  dimer; Hydrogen bonding; Infrared spectrum; Matrix isolation; Ultraviolet spectrum; 11975. SP305-3.
- Vacuum-ultraviolet photolysis; Bromoform; Carbon tetrabromide; Carbon tetrachloride;  $CBR_3$ ;  $CCl_3$ ; Chloroform; Infrared spectrum; Lithium atoms; Matrix isolation; 11652. SP305-2.
- Vacuum-ultraviolet photolysis; Carbon atom reaction; CF; Force constants;  $HCF$ ;  $H_2CF$ ; HF reaction; Infrared spectrum; Isotopic substitution; Matrix isolation; Methyl fluoride; Thermodynamic properties; Ultraviolet spectrum; 11341. SP305-2.
- Vacuum-ultraviolet photolysis; Charge transfer; Free radical; Infrared spectrum; Matrix isolation; Molecular ion; Ultraviolet spectrum; 12787. SP305-4.
- Vacuum-ultraviolet photolysis;  $CHO_2$  free radical; Force constants; Infrared spectrum; Matrix isolation; Reaction of OH with  $CO$ ; Stereoisomers; 12112. SP305-3.
- Vacuum-ultraviolet photolysis;  $CH_3OH$ ; Force constants; Infrared spectrum; Matrix isolation; Methanol; 13581. SP305-5.
- Vacuum-ultraviolet photolysis;  $CIOO$ ; H-atom reaction;  $HO_2$ ;  $H_2O_2$ ; Infrared spectrum; Matrix isolation; Normal coordinate analysis;  $O_3$ ; Ultraviolet spectrum; 12809. SP305-4.
- Vacuum-ultraviolet photolysis;  $CO_2$ ;  $CO_3$ ; Force constants; Infrared spectrum; Matrix isolation; O-atom reaction; Structure; Ultraviolet spectrum; 12101. SP305-3.
- Vacuum-ultraviolet photolysis; Difluorosilane; Free radical;  $HSiF_2$ ; Infrared spectrum; Matrix isolation;  $SiF_2$ ; Ultraviolet spectrum; 11233. SP305-2.
- Vacuum-ultraviolet photolysis; Disilane; Free radical; Infrared spectrum; Matrix isolation;  $Si_2$ ;  $SiH$ ;  $SiH_2$ ;  $SiH_3$ ; Silane; Ultraviolet spectrum; 11647. SP305-2.
- Vacuum-ultraviolet photolysis; Force constants; Infrared spectrum; Matrix isolation;  $SiF_3$  free radical; Thermodynamic properties; Trifluorosilane; Ultraviolet spectrum; 11234. SP305-2.
- Vacuum-ultraviolet photolysis; Vibrational potential function; Alkali metal reactions;  $BrHBr^+$ ; Charge transfer;  $ClHCl$ ; Electron attachment; Infrared spectrum; Matrix isolation; Molecular rotation; 12369. SP305-3.
- Vacuum-ultraviolet photolysis of HCN, of halogen cyanides,  $CH_4$ , of  $CH_3Cl$ , of  $CH_3OH$ , of  $C_2H_2$ , of  $HCCl_3$ ; Free radical  $HA_{n+1}^+$ ; Infrared spectrum; Molecular ions;  $NO_2^-$ ; 1424. SP305-6.
- Vacuum-ultraviolet region; Absorption spectrum; CO; Diatomic spectrum; Electronic transition; Rotational analysis; 940. SP305.
- Vacuum-uv; Activation energy; H atoms;  $H_2S$ ; Rate constants; Resonance fluorescence; 12074. SP305-3.
- Valance emission bands; Emission spectrum; Germanium; Profile measurement; 13354. SP305-5.
- Valence; Ar; Correlation energy; Feshbach resonance state; Hartree-Fock; He; Ne; HF;  $H_2O$ ;  $N_2$ ; resonance energy; Ryberg; 11788. SP305-2.
- Valence band; Band filling; Band tailing; GaAs; Gallium arsenide; Internal quantum efficiency; Lasers; Radiative recombination; Temperature dependence; 11790. SP305-2.
- Valence band; Band tailing; GaAs lasers; Non-radiative recombination centers; Radiative recombination; Temperature dependence; 11791. SP305-2.
- Valence band; Virgin states;  $\alpha$  states;  $\beta$  states; Adsorption; Carbon; Carbon monoxide; Chemical bonding; Chemisorption; Density dependent transitions; Desorption; Dissociative adsorption; Electronic states; Hydrogen; Monolayers; Nitrogen; Oxygen; 16419. SP305-8.
- Valence bands; Absorption spectra; Electron transitions; Emission spectra;  $L_{2,3}$  emission spectra; Shells; Soft x-ray spectroscopy; 12583. SP305-4.
- Valence bonding; Voronoi polyhedra; Aluminum diboride-cadmium diiodide structure; Bidirectional orbital effective charge; ESCA; Fermi surface distortion; Madelung constant; Madelung potential; Metallic single bond radius; SP364, pp. 515-559. SP305-4.
- Valence capture in  $^{36}Ar$  and  $^{56}Fe$ ; Thermal capture spectra; SP425, pp. 795-798. SP305-7.
- Valence electrons; Basis functions; Configuration mixing; Dipole moments; Electronic structure of molecules; Hartree-Fock; Integrals, evaluation of; Molecular structure; Orbital potential energy curves; Pseudopotentials; Self-consistent field; 16611. SP305-8.
- Valence electrons; X-ray Raman effect; Absorption; Charge correlation; Compton effect; Core electrons; Current correction; Inelastic scattering; Solid; Theory; 12542. SP305-4.
- Valence excited state;  $CH$ ;  $CH^+$ ; Dielectronic recombination; Electron-ion recombination; Energy curve; Rydberg excited state; 13719. SP305-5.
- Valence excited states; Electron scattering resonance; Excited states  $N_2$ ; Excited states  $N^+$ ; Inelastic scatter;  $N_2^+$ ; J.77A 1, 4, 411-412 (1973). SP305-5.
- Valence orbital; Electron scatter; Energy curve; Local potential;  $N_2$ ; Resonance width; Shape resonance; Spectroscopic constant; 11899. SP305-3.
- Valence state; CO;  $CO_2$ ; Electron impact; Fourth positive bands; Oscillator strength; Rydberg state; 12327. SP305-3.
- Valence states; Ion-pair;  $O_2$ ; Photodissociation; Predissociation; Rydberg states; 15611. SP305-7.
- Valence-band; X-ray photoemission; Electronic density of states; Pt; Surface cleanliness; 14136. SP305-6.



Alchemy; Free radicals; Genesis; Phlogiston; *SP357*, 116. **SP305-4.**

Antimony; Ferrites; Hyperfine fields; Iron; Mössbauer effect; Nickel; *14320*. **SP305-6.**

Biological; Chemical; Physical; Reliable; Specification; *13259*. **SP305-5.**

Airport; Airport capacity; Airport simulation; Models; Model validation; Runway capacity; Simulation; *SIR 75-783*. **SP305-7.**

Algorithms; Mathematical functions; Performance; Standards; Testing; *14061*. **SP305-6.**

Buyer; Computer software; Marketplace; Performance measurement; Quality; Seller; Specifications; *195*. **SP305-7.**

Chemical structure diagrams; Computer storage; Display; Geometric; Grammar; Input; Labeled graph; Overlap; Topological; *12682*. **SP305-4.**

Warranty; Accuracy; Audit; Certification; Code-independent; Documentation; Optimization; Precision; Runistics; Security; Terminology; *SP406*, pp. 141-144. **SP305-**

Patents; Inventor; Monopoly; Patent system; Proper rights; *SP388*, pp. 119-126. **SP305-6.**

Viscosity; Dilute gas; Dilute limit; Low pressure; Free-path; Transport properties; *10520*. **SP305-1.**

Balance; Buoyancy; Calibration; Standards; Substitution weighing; Transposition weighing; True mass; Uncertainty; *577*. **SP305-3.**

Building; Competitive market; Construction; Cost; Evaluation; Materials; Performance; Price; User; *SP361*, Vol. 1, pp. 141-148. **SP305-4.**

Experimental Technology Incentives Program (ETIP); Federal Supply Service; Life cycle costing; Procurement Policy Specifications; *NBS-GCR-ETIP 76-18*. **SP305-8.**

Fluoride; High-temperature; High-vacuum; Metal; Metal-Monel; Non-corrosive; *10748*. **SP305-1.**

Incentives; Computer air conditioning units; Experimental Technology Incentives Program (ETIP); Federal Supply Service; Life cycle costing; Procurement policy; Specifications; *NBS-GCR-ETIP 76-23*. **SP305-8.**

System; Building design; Design process; Evaluation; Performance; Systems approach; User requirements; *SP361*, Vol. 1, pp. 237-248. **SP305-4.**

System; Cost; Design; Industrialization; Performance; User needs; *SP361*, Vol. 1, pp. 131-139. **SP305-4.**

Added networks; Computer networking; Cost study; Inactive terminals; *TN845*. **SP305-6.**

Added networks; Computer networks; Computer terminals; Networking technology; *15621*. **SP305-7.**

Faraday; Coulometers; Faraday; Inclusions in silver electrodes; *J.72A No. 4, 435-439 (1968)*. **SP305-1.**

Bellows; Fluorine; High pressure; Packless; Reactive; *45*. **SP305-2.**

Constant volume; Equation of state; Pressure; Vacuum; *113*. **SP305-4.**

Seat leakage; Leak detection; Leak flow rates; Leak tests; Leakage through valves; Predicting leak rates; Seal leakage; *TN355*. **SP305.**

Bowls; Brass; Dimensions; Nuts; Plastic; Plumbing equipment; Tanks; *P56-66*. **SP305.**

Water-flow regulation; Performance characteristics; Regulation accessories; *13549*. **SP305-5.**

de Graaff; 14 MeV neutrons;  $^{180}\text{Ho}$ ; Black nucleus model; Isogenic target; Coupled-channel calculation; Nuclear experiment; Nuclear deformation; Optical model; *9362*. **SP305.**

Van der Waals; Binary mixture; Critical opalescence; Electric field effect; Excess concentration; *10630*. **SP305-1.**

Van der Waals; CO; Energy surface;  $\text{F}_2$ ; Hydrides;  $\text{LiH}_2$ ;  $\text{MC-F}_2$ ;  $\text{O}_2$ ;  $\text{O}_3$ ; Polarizability; *15275*. **SP305-7.**

Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; Pressure broadening; Resonance broadening; Stark broadening; *SP366*. **SP305-4.**

Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; Pressure broadening; Resonance broadening; Stark broadening; *SP366*. **Supplement 1. SP305-6.**

Van der Waals broadening; Atomic; Instrumental broadening; Line shapes; Line shifts; Pressure broadening; Resonance broadening; Stark broadening; *SP366-2*. **SP305-7.**

Van der Waals coefficients; Alkaline earth chalcogenides; Electronic polarizabilities; Lorentz factor; Oxides; Sulfides; *11675*. **SP305-2.**

Van der Waals collection; Verschaffelt; Coexistence curves; Critical exponents; Fluid critical point; History; Kamerlingh Onnes collection; Surface tension; *16372*. **SP305-8.**

Van der Waals' equation; Ammonia; Dense gases; Equation of state; Hydrogen; Nitrogen; Mercury vapor; Noble gases; Solubility-enhancement; Steam; *11742*. **SP305-2.**

Van der Waals' equation; Vapor pressure curve; Coexistence curve; Corresponding states; Critical exponents; Critical isotherm; Rectilinear diameter; Scaling laws; Scaling symmetry; Universality; *14405*. **SP305-6.**

Van der Waals forces; Alkali atoms; Atomic beam deflection; Atom surface potential; Gold surfaces; Lifshitz theory; *15953*. **SP305-8.**

Van der Waals forces; Cesium beam; Cesium chloride beam; Gold surfaces; *15340*. **SP305-7.**

Van der Waals gas; Volume viscosity; Critical phenomena; Fluctuation and time correlation function; Heat capacity; Shear viscosity; Thermal conductivity; *10696*. **SP305-1.**

Van der Waals isotherm; Fluid-solid phase transition; Lennard-Jones model; Melting and freezing densities; Monte Carlo simulation; Symmetry change; *14736*. **SP305-7.**

Van der Waals line broadening; Sun-faculae; Sun-photospheric models; *14792*. **SP305-7.**

Van der Waals mixtures; Viscosity; Heat capacity; Solution critical point; *9671*. **SP305-1.**

Van der Waals/Percus and Yevick; Henry's constants; Liquid mixtures; Partition function; Phase equilibria; Statistical thermodynamics; Supercritical component; *11403*. **SP305-2.**

Van Hove  $G(\mathbf{r}, t)$ ; Convolution approximation; *9967*. **SP305-1.**

Vanadium; Absolute transition probabilities; Arc; Beam foil; Experimental; Lifetimes; *13367*. **SP305-5.**

Vanadium; Alloys; Aluminum; Diffusion; High-pressure; Phase-diagram; *11832*. **SP305-3.**

Vanadium; Alloys; Constitution diagram; Equilibrium diagram; Phase diagram; Platinum; *13257*. **SP305-5.**

Vanadium; Automatic titrations; Coulometric titrations; Current integration; Digital timing; Epinephrine; Linear sweep voltammetry; Manganese; Micrometer cell; Thin layer electrochemistry; *SP422*, pp. 861-869 (Aug. 1976). **SP305-8.**

Vanadium; Chromium; Cobalt; Forbidden transitions; Iron; Manganese; Nickel; Transition probabilities; *J. Phys. Chem. Ref. Data* 2, No. 1, 85-120 (1973). **SP305-6.**

Vanadium; Electrical resistivity; Emittance; Heat capacity; High-speed measurements; High temperature; Thermodynamics; Thermophysics; *J.78A No. 2, 143-147 (1974)*. **SP305-6.**

Vanadium; V; Zeeman effect; Configurations in V; Configurations ( $3d + 4s$ ) $^4p$  in V; Configuration interaction; Energy levels of V; *J.74A No. 2, 141-156 (1970)*. **SP305-2.**

Vanadium; Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; Diffusion; Electromigration; Europium; Grain boundary diffusion; Hydrogen; Impurity diffusion; Interdiffusion; Lanthanum; *J. Phys. Chem. Ref. Data* 4, No. 1, 177-250 (1975). **SP305-7.**

Vanadium; Zirconium; Bibliography on spectroscopy of fluorides and oxides of the lanthanide series; Calculation of dissociation energies; Electrical resistivity; Enthalpy of transi-

- tion; Graphite; Infrared matrix isolation spectroscopy; Melting point; Radiance temperature; *NBSIR 74-600*. **SP305-7.**
- Vanadium alloys; A 15 phases; Atomic ordering; Magnetic structure; Neutron diffraction; Superconductivity; *14574*. **SP305-6.**
- Vanadium alloys; Atomic ordering; Crystal structures; Intermetallic compounds; Rhodium alloys; *13522*. **SP305-5.**
- Vanadium alloys; A15 phases; Iridium alloys; Superconductivity; *15192*. **SP305-7.**
- Vanadium carbide; Carbide; Crystal structure; Molybdenum carbide; Niobium carbide; Reaction mechanism; Solid state; Tantalum carbide; Tungsten carbide; *SP364*, pp. 561-566. **SP305-4.**
- Vanadium carbide; Carbides; Electron diffraction; Interpretation of ordering effects; Niobium carbide; Ordering effects; Superlattice; Tantalum carbide; Transition metal compounds; *SP364*, pp. 583-590. **SP305-4.**
- Vanadium carbides; Band structure of solids; Cryogenics; Superconductivity; Transition temperatures; *12266*. **SP305-3.**
- Vanadium compounds; Yttrium compounds; Zirconium compounds; Enthalpy; Entropy; Gibbs energy of formation; Hafnium compounds; Heat of formation; Niobium compounds; Scandium compounds; Tantalum compounds; Titanium compounds; *TN270-5*. **SP305-3.**
- Vanadium disulfide; Disulfides; Electrical conductivity; Magnetic properties; Sulfides; Titanium disulfide; Titanium-vanadium disulfides; *SP364*, pp. 663-671. **SP305-4.**
- Vanadium hydride; Activation energy; Hydrogen diffusion; Lattice sites; Neutron scattering; Phase transition; Quasielastic scattering; *13163*. **SP305-5.**
- Vanadium hydride; Vibration; Debye-Waller factor; Hydrogen diffusion, interstitial site; Linewidth; Momentum transfer; Neutron scattering, quasielastic scattering; *12822*. **SP305-4.**
- Vanadium hydride; Vibration spectra; Crystal structure; Frequency distribution; Hydrogen positions; Hydrogen vibration; Metal hydride; Neutron inelastic scattering; Phase transformation; *10598*. **SP305-1.**
- Vanadium in irons and steels; Activation analysis; Biological; Botanical samples; Carbon in sodium; Cockcroft-Walton generator; Digital computers; Flux monitors; High precision 14 MeV neutron activation; Homogeneity testing; Instrumentation; NBS LINAC; NBS reactor; Photoneutron reactions; Self-absorption corrections; Standard reference materials; *TN428*. **SP305.**
- Vanadium oxide; X rays; Chromium doping; Metal-insulator transitions; Twinning; *14415*. **SP305-6.**
- Vanadium oxides; Covalence parameters; Insulator-metal transitions; Perovskite like structures; Relations between structures and physical properties; *SP364*, pp. 205-218. **SP305-4.**
- Vanadium tetrachloride; Jahn-Teller distortion; Ligand field; Magnetic susceptibility; Paramagnetic relaxation; Paramagnetic resonance; *10758*. **SP305-1.**
- Vanadium, the fourth and fifth spectra of; Atomic spectra, V IV and V V; Classified lines, V IV and V V spectra; Spectra V IV and V V; *J.72A No. 4*, 295-308 (1968). **SP305-1.**
- Vanadyl;  $\beta$ -isopropyltropolone; Chelate; Equilibrium constants; Extraction method; Ferric; Graphical; Least squares computer calculations; *12110*. **SP305-3.**
- Vane gages; Vapor pressure measurement; Calibration techniques; Capacitance pressure gages; Gas column manometers; Manometers; Meteorographs; Micromanometers; Piston gages; Pressure measurement; *Monogr. 114*. **SP305-2.**
- Vane gauge; Molecular flow; Monte Carlo; Vacuum; Vacuum gauge; *11155*. **SP305-2.**
- Vane-shear apparatus; Cement; Cement mortar; Cement paste; Early strength; False set; Hardening of cement; Hydration; Shear resistance; Theory of cement hardening; Time of set; *BSS28*. **SP305-2.**
- Vanillyl-mandelic acid; VMA; Alkaline condensation; Glyoxal acid; Quiaacal; Synthesis; *J.78A No. 3*, 411-412 (1976). **SP305-6.**
- Vapor; Constant volume; Ethane; Heat capacity; Liquid; Saturated liquid; Specific heat; *J. Res. 80A Nos. 5 and 6*, 7-759 (1976). **SP305-8.**
- Vapor; Contamination; Dental amalgam; Environmental Hazards; Hygiene; Mercury; *12254*. **SP305-3.**
- Vapor; Cylindrical and spherical shapes; Solution or vapor; Spherical shapes; *9643*. **SP305-1.**
- Vapor; Wear; Chemical; Coating; Deposition; *SP452*, pp. 1-169 (Sept. 1976). **SP305-8.**
- Vapor and density pressure; Density and vapor pressure; Nitromethane density; Nitromethane vapor pressure; *95*. **SP305-1.**
- Vapor barriers; Weatherstripping; Caulks and sealants; Climate; thermostats; Energy conservation; Insulation; Retrofitting; Storm doors; Storm windows; Tax credit; *NBSIR 75-7*. **SP305-7.**
- Vapor content; Wet-bulb; Adiabatic saturation; Gas mixture; Humidity; Hygrometer; Mixing ratio; Moist gas; Psychrometer; Psychrometric factor; Saturation; Thermodynamic wet-bulb temperature; *J.72C No. 1*, 33-47 (1968). **SP305-1.**
- Vapor crystal growth; Aluminum oxide; Bicrystals; Crystal growth; *12013*. **SP305-3.**
- Vapor density; Glass; Incongruent vaporization; Transpiration; *16524*. **SP305-8.**
- Vapor deposition; Cadmium telluride; Growth kinetics; Mechanical properties; Microstructure; Stoichiometry; Transmission electron microscopy; *SP462*, pp. 100-118 (1976). **SP305-8.**
- Vapor deposition; Critical nucleus; Field-electron emission microscopy; Heterogeneous nucleation; *9483*. **SP305.**
- Vapor deposition; Crystal growth; Epitaxy; Fe-W alloying; Field emission microscopy; *10165*. **SP305-1.**
- Vapor deposition; Deposition of tungsten; Hydrogen reduction; Investigation of variables; Tungsten hexafluoride; *95*. **SP305-1.**
- Vapor deposition; Hexafluoroacetylacetonate; Rhenium; *106*. **SP305-1.**
- Vapor dimerization; Vapor pressure; Aluminum fluoride; Trainment method; Heat of sublimation; Temperature; *103*. **SP305-1.**
- Vapor flux; Eddy correlation; Humidity sensor; *11690*. **SP305-2.**
- Vapor growth; X-ray diffraction microscopy;  $Al_2O_3$ ; Berggren; Single crystal; Skew reflection; *13929*. **SP305-6.**
- Vapor meter; Volume; Bell prover; Calibration; Inspection; Liquefied petroleum gas; Pressure; Report form; Temperature; Temperature compensator; Test; *H117*. **SP305-7.**
- Vapor mixtures; Heat-pipe oven; Laser induced resonance fluorescence; NaLi molecule; *12907*. **SP305-4.**
- Vapor phase; Aldehyde; Energy transfer; Photolysis; Triplet state; *9385*. **SP305.**
- Vapor phase; Alkanes; Ion-molecule reactions; Mass spectrometry; Photoionization; Rate coefficient; *13003*. **SP305.**
- Vapor phase;  $CF_3SF_5$ ; CISF; Dielectric relaxation time; Dipole moment; Microwave absorption; *14407*. **SP305-6.**
- Vapor phase; Cyclobutane; Ion-molecule reactions; Mass spectrometry; Photoionization; Reaction kinetics; *11603*. **SP305-2.**
- Vapor phase;  $C_6H_6$  isomers; Collisional stabilization; Isomerization; Photoionization; Rate constants; *J.76A No. 2*, 115-116 (1972). **SP305-4.**
- Vapor phase; Ion-molecule reaction; Mass spectrometry; Rate constant; *14464*. **SP305-6.**
- Vapor phase diffusion; Calcite; Crystal growth; Crystals; *9*. **SP305.**
- Vapor phase failure; Methanol; Stress corrosion; Titanium 8-1-1; *10503*. **SP305-1.**

por pressure; Activity coefficient; Calcium chloride; Isopiestic measurements; Mixed salt solutions; Osmotic coefficients; Potassium chloride; *J.72A No. 3, 239-245 (1968). SP305-1.*

por pressure; Activity coefficients; Aqueous; Computer programs; Data evaluation; Electrolytes; Electromotive force; Isopiestic method; Osmotic coefficients; Nonlinear least squares; Thermodynamic properties; *TN928. SP305-8.*

por pressure; Adiabatic saturation; Dew point temperature; Humidity; Hygrometer; Mixing ratio; Moist gas; Psychrometer; *J.75C No. 2, 69-78 (1971). SP305-3.*

por pressure; Aluminum fluoride; Entrainment method; Heat of sublimation; Temperature; Vapor dimerization; *10382. SP305-1.*

por pressure; Argon; Carbon dioxide; Classical equation; Coexistence curve; Critical exponents; Critical point; Lattice gas; Power laws; Rectilinear diameter; Steam; Thermodynamic anomalies; *11985. SP305-3.*

por pressure; Bias of least squares estimators; Coefficient of variation; Correlated estimators; Enthalpy adjustments; Heat of vaporization; High temperature chemistry; Overestimation of standard deviation; Second law heat; *J.70A6-424, 533-39, (1966). SP305.*

por pressure; Boiling point; Critical-point pressure; Melting pressure; Methane; Triple-point constants; *12896. SP305-4.*

por pressure; Burnett method; CO<sub>2</sub>; Coexistence curve; Controlled clearance gage; Critical expansion; Critical isochore; Critical region; Metastable states pressure calibration; Scaling law; *12711. SP305-4.*

por pressure; Cadmium; Components of error (within- and between-laboratory); Heats of sublimation (second and third law); Interlaboratory measurements; Silver; Standard errors; Standard reference materials; *SP260-21. SP305-3.*

por pressure; Calcium chloride; Mixed solutions; Activity coefficients; Isopiestic measurements; *J.70A4-405, 305-311 (1966). SP305.*

por pressure; Calibration; Cryogenics; Liquid helium; Liquid hydrogen; Liquid neon; Liquid nitrogen; Liquid oxygen; Reference data; Resistance thermometers; Thermocouples; Thermometry; *14342. SP305-6.*

por pressure; Carbon dioxide; Fixed point; Hypsometer; Pressure standard; Purification; *J.72C No. 1, 27-32 (1968). SP305-1.*

por pressure; Cavitation; Cavity pressure; Steam; Steam vapor pressure; Thermodynamic effects; *14879. SP305-7.*

por pressure; Chemical potential; Critical region; Lattice gas; Scaling law; Specific heat; Thermodynamic anomalies; *10603. SP305-1.*

por pressure; Compilation; Density; Deuterium; Electrical properties; Enthalpy; Entropy; Fixed points; Hydrogen; Mechanical properties; Optical properties; Specific heat; Thermophysical properties; Transport properties; Tritium; *N641. SP305-5.*

por pressure; Components of error (within- and between-laboratories); Gold; Heats of sublimation (second and third law); Interlaboratory measurements; Standard errors; Standard reference materials; *SP260-19. SP305-2.*

por pressure; Critical point; Equation; Formula; Liquid; Nitrogen; Nonanalytic; Oxygen; *J.73A No. 5, 487-491 (1969). SP305-1.*

por pressure; Critical point; Fluorine; Latent heats of vaporization; Saturated liquid densities; Saturated vapor densities; *11980. SP305-3.*

por pressure; Cryopumps; Getters; Ion pumps; Pumping efficiency; Sublimation pumps; Vacuum pumps; *11513. SP305-5.*

por pressure; Densities; Enthalpies; Entropies; Equation of state; Ethane; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; Specific heats; Speeds of sound; *TN684. SP305-8.*

Vapor pressure; Density; Liquids; Nitrogen; *P-V-T; Phase boundary; Saturation density; 12186. SP305-3.*

Vapor pressure; Electrical resistivity; Iron; Molybdenum pentafluoride; Partly associated vapors; Solid-state transformations; Solution calorimetry; Specific heat; Spectral emittance; Transition alloys; *NBSIR 73-281. SP305-6.*

Vapor pressure; Fixed point; <sup>100</sup>Ne; <sup>20</sup>Ne; <sup>22</sup>Ne; Neon; *13601. SP305-5.*

Vapor pressure; Heat of sublimation; Langmuir vaporization; Rate of vaporization; Tungsten; *J.77A No. 2, 237-242 (1973). SP305-5.*

Vapor pressure; Heat of sublimation; Langmuir vaporization; Platinum; Rate of vaporization; *J.74A No. 5, 647-653 (1970). SP305-2.*

Vapor pressure; Helium; Pressure measurement; Temperature scale; *13589. SP305-5.*

Vapor pressure; Mercury manometer; Triple point of water; *15732. SP305-8.*

Vapor pressure; Methanol-water solvents; Thermodynamics; Acidity; Analytical chemistry; Conductance; Deuterium oxide; Dissociation processes; Electrochemistry; Electrolytes; Emf; Indicators; Isopiestic; *TN400. SP305.*

Vapor pressure; PVT; density; Ethane; *J. Res. 80A No. 1, 35-39 (1976). SP305-8.*

Vapor pressure; Rubidium; *13939. SP305-6.*

Vapor pressure; Vapor pressure of water; Water vapor; Steam; Virial coefficients; Clausius-Clapeyron equation; Saturation vapor pressure over water; *J.75A No. 3, 213-230 (1971). SP305-3.*

Vapor pressure; Vapor pressure of water; Water; Manometer; Precision manometer; Pressure; *p-t* relation; *p-t* relation of water; Standard resistance thermometers; Temperature; *J.73A No. 5, 493-496 (1969). SP305-1.*

Vapor pressure; Vapor pressure of water; Virial coefficients; Clapeyron equation; Saturation vapor pressure over water; Steam; *J. Res. 80A Nos. 5 and 6, 775-785 (1976). SP305-8.*

Vapor pressure; Vapor pressure thermometry; Capacitance manometer; Cryogenic thermometry; Manometry; Pressure measurement; Thermomolecular pressure difference; *11740. SP305-2.*

Vapor pressure; Vaporization equilibria; K<sub>2</sub>SO<sub>4</sub>-LaCrO<sub>3</sub> system; K<sub>2</sub>SO<sub>4</sub>-MgO system; Phase relations; *15505. SP305-7.*

Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; Saturation densities; Specific heats; *TN392. (Revised September 1973). SP305-5.*

Vapor pressure; Velocity of sound; Critically evaluated data; Critical point; Density; Enthalpy; Entropy; Equation of state; Heat capacity; Ideal gas properties; Latent heat; Nitrogen; Second virial coefficient; *J. Phys. Chem. Ref. Data 2, No. 4, 757-922 (1973). SP305-6.*

Vapor pressure; Velocity of sound; Density; Enthalpy; Entropy; Equation of state; Fixed points (PVT); Joule-Thomson; Latent heat; Melting curve; Oxygen; Properties of fluids; Saturated liquid and vapor; *J.74A No. 1, 93-129 (1970). SP305-2.*

Vapor pressure; Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; Saturation densities; Specific heats; *TN392. SP305-2.*

Vapor pressure; Virial coefficient; Argon; Compressibility factor; Enthalpy; Entropy; Equation of state; Internal energy; Joule-Thomson coefficient; *P-V-T*; Specific heat; *NSRDS-NBS22. SP305-1.*

- Vapor pressure; Virial coefficient; Critically evaluated data; Critical point; Enthalpy; Entropy; Equation of state; Helium; Internal energy; Joule-Thomson coefficient; Lambda line; Melting line; *J. Phys. Chem. Ref. Data* 2, No. 4, 923-1042 (1973). **SP305-6.**
- Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; Lambda line; Latent heat; Melting point; *TN631*. **SP305-5.**
- Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Hydrogen; Index of refraction; Joule-Thomson; Latent heat; Melting point; Prandtl number; *TN617*. **SP305-4.**
- Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; Lambda line; Latent heat; Melting point; *TN622*. **SP305-4.**
- Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; Prandtl number; Oxygen; *TN384*. **SP305-3.**
- Vapor pressure; Viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; Nitrogen; Prandtl number; Specific heat; Speed of sound; *TN648*. **SP305-6.**
- Vapor pressure; Water in alumina; Water vapor; Alumina; Arc-image furnace; Heat of vaporization; Molten alumina; Temperature measurement; Vaporization; 9675. **SP305-1.**
- Vapor pressure; Xenon; CO<sub>2</sub>; Chemical potential; Critical point parameters; Critical region; Fluids; He<sup>4</sup>; Scaling laws; Specific heat; Thermodynamic properties; *J.73A No. 6*, 563-583 (1969). **SP305-1.**
- Vapor pressure; <sup>20</sup>Ne; <sup>22</sup>Ne; Boiling point; Neon; Neon isotopes; Neon point; Triple point; *12597*. **SP305-4.**
- Vapor pressure curve; Coexistence curve; Corresponding states; Critical exponents; Critical isotherm; Rectilinear diameter; Scaling laws; Scaling symmetry; Universality; Van der Waals' equation; *14405*. **SP305-6.**
- Vapor pressure data; Vapor pressure equation; Critical point pressure; Fluorine; Normal boiling point; *11835*. **SP305-3.**
- Vapor pressure equation; Critical point; Oxygen; Temperature scales; Triple point; *12672*. **SP305-4.**
- Vapor pressure equation; Critical point pressure; Fluorine; Normal boiling point; Vapor pressure data; *11835*. **SP305-3.**
- Vapor pressure measurement; Calibration techniques; Capacitance pressure gages; Gas column manometers; Manometers; Meteorographs; Micromanometers; Piston gages; Pressure measurement; Vane gages; *Monogr. 114*. **SP305-2.**
- Vapor pressure of aqueous solutions; Calcium chloride; Isopiestic measurements; Mixed salt solutions; Sodium chloride; *J.70A-406*, 313-318 (1966). **SP305.**
- Vapor pressure of water; Precision mercury manometer; Triple point of water; *16096*. **SP305-8.**
- Vapor pressure of water; Precision mercury manometer; Triple point of water; *J. Res. 80A No. 3*, 505-521 (1976). **SP305-8.**
- Vapor pressure of water; Virial coefficients; Clapeyron equation; Saturation vapor pressure over water; Steam; Vapor pressure; *J. Res. 80A Nos. 5 and 6*, 775-785 (1976). **SP305-8.**
- Vapor pressure of water; Water; Manometer; Precision manometer; Pressure; *p-t* relation; *p-t* relation of water; Standard resistance thermometers; Temperature; Vapor pressure; *J.73A No. 5*, 493-496 (1969). **SP305-1.**
- Vapor pressure of water; Water vapor; Steam; Virial coefficients; Clausius-Clapeyron equation; Saturation vapor pressure over water; Vapor pressure; *J.75A No. 3*, 213-2 (1971). **SP305-3.**
- Vapor pressure of water; Wet-bulb temperature; Antoine Equation; Dew point; Humidity; Hygrometry; Psychrometric chart; Relative humidity; *J.74C Nos. 3 and 4*, 117-122 (1971). **SP305-2.**
- Vapor pressure thermometry; Capacitance manometer; Cryogenic thermometry; Manometry; Pressure measurement; Thermomolecular pressure difference; Vapor pressure; *11740*. **SP305-2.**
- Vapor pressures; AlO<sub>3</sub>; Al<sub>2</sub>O<sub>3</sub>; Emissivity; Evaporation coefficient; Langmuir vaporization; Optical pyrometry; Radiant heating; *16540*. **SP305-8.**
- Vapor pressures; Coexistence boundary; Critical point; Ethanol; Equation of state; Fluids; Methane; Orthobaric densities; Specific heats; *J.79A No. 1*, 71-79 (1975). **SP305-7.**
- Vapor pressures; Combining rule correlation; Cryogenic Enhancement factor theory; Review; Solid-vapor equilibrium; *11747*. **SP305-2.**
- Vapor pressures; Cryopumping; Cryosorption; Getter; Vacuum pump; *13634*. **SP305-5.**
- Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; PVT data; Specific heats; Speed of sound; *TN653*. **SP305-6.**
- Vapor pressures; Densities; Enthalpies; Entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; PVT data; Specific heats; Speed of sound; *NBSIR 73-342*. **SP305-6.**
- Vapor pressures; Densities; Enthalpies, entropies; Equation of state; Internal energies; Isobars; Isochores; Isotherms; Joule-Thomson inversion; Latent heats of vaporization; Melting line; Orthobaric densities; Specific heats; Speeds of sound; *NBSIR 74-398*. **SP305-7.**
- Vapor pressures; Virial coefficients; Melting pressure; Methane; Thermophysical properties; *J.74A No. 5*, 655-6 (1970). **SP305-2.**
- Vapor-deposition; Wires; Composites; Copper; Electrical conductivity; Fracture; Law of mixtures; Metallic bonding; Tensile properties; Tungsten; *J.74C Nos. 3 and 4*, 97-110 (1971). **SP305-2.**
- Vaporization; Alkanes; Heats; *n*-hexatriacontane; *n*-pristane; tetracosane; *n*-tetraonacontane; *11840*. **SP305-3.**
- Vaporization; Ceramics; Coal conversion; Coal gasification; Corrosion; Fracture; *16243*. **SP305-8.**
- Vaporization; Chemical ionization mass spectrometry; Mass spectrometry; Sulfur nitride; Tetracyanoquinodimethane; Tetrasulfur tetranitride; Tetrafulvalene; *16422*. **SP305-8.**
- Vaporization; Crystallization; Magneto-hydrodynamics; Potassium activity; Synthetic coal slags; System K<sub>2</sub>O-CaO-Al<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>; *16457*. **SP305-8.**
- Vaporization; Diffusion; Glass; Homogeneity; Melting; *155*. **SP305-8.**
- Vaporization; Enthalpy; Heavier elements; Literature surveys; Refractory compounds; Thermodynamic; *9153*. **SP305.**
- Vaporization; Laser-induced stress; Plastic deformation; Single crystal aluminum; Slip bands; *SP462*, pp. 165-180 (1976). **SP305-8.**
- Vaporization; Vapor pressure; Water in alumina; Water vapor; Alumina; Arc-image furnace; Heat of vaporization; Molten alumina; Temperature measurement; 9675. **SP305-1.**
- Vaporization; Viscosity; Coal slags; MHD; Thermionic emission; *15449*. **SP305-7.**
- Vaporization; Viscosity; Diffusion; Electrical conductivity; Magneto-hydrodynamics (MHD); Phase equilibria; Transport properties; *16321*. **SP305-8.**



- orization; Viscosity; Electrical conductivity; MHD materials; Phase equilibrium; Slag; 15510. SP305-7.
- orization correction; Adiabatic calorimetry; Calorimeters; calorimetry; Cryoscopy; Cryostats; Curvature correction; Heat-leak correction; Low temperature calorimetry; Phase studies; Phase transitions; Power; Premelting correction; Purification; 11189. SP305-2.
- orization equilibria;  $K_2SO_4$ - $LaCrO_3$  system;  $K_2SO_4$ - $MgO$  system; Phase relations; Vapor pressure; 15505. SP305-7.
- orization heat; Vaporization temperature; Fusion heat; Fusion temperature; Transition heat; Transition temperature; 4205. SP305-6.
- orization (MHD); Viscosity (MHD); Coal slag; Electrical conductivity (MHD); Electrodes; Insulators; MHD; MHD materials; MHD materials testing; Phase equilibria (MHD); BSIR 74-543. SP305-6.
- orization temperature; Fusion heat; Fusion temperature; Transition heat; Transition temperature; Vaporization heat; 4205. SP305-6.
- ors; Calibration device; Dinitrotoluene; Ethylene glycol nitrate; Explosives; Generator; Trinitrotoluene; 16402. SP305-8.
- ors; High temperature chemistry; High temperatures; Melting range; Thermodynamic properties; 10456. SP305-5.
- ors; gas; Alkali metal-noble gas vapors; Gas vapors; Metal-noble gas vapors; 16217. SP305-8.
- or-stream pumping; Viscosity gauge; Capacitance-capacitance gauge; Knudsen radiometer; McLeod gauge; Microanometry; Quartz Bourdon gauge; Static expansion; Thermal transpiration; 14933. SP305-7.
- ector amplifier; Audio amplifier; Capacitance bridge detector; Noise reduction; Null detector; Parametric amplifier; 10891. SP305-2.
- ability; Accelerated aging; Building systems; Extreme loads; Performance criteria; Performance evaluation; Service loads; Stiffness; Strength; Testing; SP361, Vol. 1, pp. 267-274. SP305-4.
- ability; Appearance evaluation; Colorimetry; Color spacing; color vision; Gloss; Metamerism; Spectrophotometry; Standards; Uncertainty; SP300. Volume 9. SP305-4.
- ability; Colorimetry; Propagation of errors; Uncertainty in chromaticity coordinates; Uncertainty in spectral tristimulus values; Uncertainty in spectrophotometric data; Uncertainty in spectroradiometric data; Uniform chromaticity spacing; 1965. SP305-1.
- ability; Distribution; Low utilization; Overhead; Suboptimization; Subsystem measurement; SP406, pp. 45-52. SP305-7.
- ability; Variance (statistics); Aggregates; Anisotropy; Automation; Computers; Mechanical properties; Microscopes; Microstructure; Particle distribution; Phase mapping; Quality control; Scanning; Television systems; 12935. SP305-4.
- able; Anchor; Controls; Corrosion; Growth; Metering; Modern; Museum; Primary; Reliability; Renovation; Secondary; System; BS566, pp. 102-115. SP305-7.
- able; Current; Generator; Magnetic; Stable; Transistor; 10127. SP305-1.
- able area meter; Coefficients of discharge; Expansion factors; Flow coefficients; Flowmeter; Fluid meter coefficients; Potometer; 14795. SP305-7.
- able contrast resolution; Contrast curves; Low contrast resolution; Night vision; Objective lenses; Resolution test; 4950. SP305-7.
- able coupling lasers; HCN Lasers;  $H_2O$  lasers; Infrared lasers; TN395. SP305-3.
- able impedance; Characteristic impedance; Current distribution; General method; Matrix solution; Rectangular transmission line; Time-domain reflectometer; 10158. SP305-5.
- Variable laser coupling; HCN lasers;  $H_2O$  lasers; Infrared lasers; 12207. SP305-3.
- Variable prestress; Creep; Loss of prestress; Prestressed concrete; Relaxation; Shrinkage; BS513. SP305-1.
- Variable pulse duration; Alkali halides; Bulk damage; Longitudinal mode control; Pulsed 10.6  $\mu m$  laser damage; RAP materials; Transmitted pulse cutoff; SP435, pp. 118-125 (Apr. 1976). SP305-8.
- Variable temperature studies; Conformational analysis; Iterative analysis; Long-range coupling constants; N.m.r. spectroscopy; Nuclear Overhauser effects; Spin-spin coupling constants; 12777. SP305-4.
- Variable-property media; Doppler width; Radiative transfer media; Riccati method; Spectral line formation; 10707. SP305-1.
- Variables; Hermite-Fejer; Bernstein; Chebyshev; Approximations; Convergence; Multidimensional; Polynomials; Functions; J.70B3-182, 211-218 (1966). SP305.
- Variables; Workload; Computer system; Factors; Measurement; Parameters; Performance; Performance terminology; Predictability; Requirements; SP406, pp. 53-60. SP305-7.
- Variance; Abcissa; Confidence limits; Glass transition; Intercept; Intersection; Linear; Regression; Second order transition; Statistics; J. 76B Nos. 3 and 4, 179-192 (1972). SP305-4.
- Variance; Activation; Analysis; Biological; Blood; Bone; Botanical; Destructive; Homogeneity; Leaves; Liver; Neutron; Non-destructive; Reference; Tissue; Trace; 10790. SP305-1.
- Variance; Allan variance; Frequency; Frequency stability; Sample variance; Spectral density; 12228. SP305-3.
- Variance; Allan variance; Frequency; Frequency stability; Sample variance; Spectral density; TN394. SP305-2.
- Variance; Coefficients subject to error; Determinant; Error propagation; Implicit functions; Linear equations; Matrix; Propagation of error; 14395. SP305-6.
- Variance; Distribution; Parameter; Probabilities; Random sample; Two-point binomial; 10987. SP305-2.
- Variance; Spectral density; Statistics; Unbiased estimate; TN375. SP305-1.
- Variance components; Interlaboratory comparisons; Philosophy of design; Physical constants; 13132. SP305-5.
- Variance components; Weighting; Analysis of variance; Average (weighted); Interlaboratory evaluation; Round robin; Single classification; Statistics; 11906. SP305-3.
- Variance (statistics); Aggregates; Anisotropy; Automation; Computers; Mechanical properties; Microscopes; Microstructure; Particle distribution; Phase mapping; Quality control; Scanning; Television systems; Variability; 12935. SP305-4.
- Variance-covariance matrix; Angle standard; Autocollimator; Calibration; Complete closure design; Indexing table; Least squares estimation; Partial closure design; Standard deviation; Subdivision; NBSIR 75-750. SP305-8.
- Variation in pressure; Brinell indentation used to measure force; Clinical; Measuring area dentures; Swallowing pressure on dentures; 9970. SP305-1.
- Variation method; Carbon ( $^{12}C$ ); Carbon ( $^{13}C$ ); Carbon ( $^{15}C$ ); Multiconfiguration; Static dipole polarizability; 12937. SP305-4.
- Variation of parameters; Celestial mechanics; Orbit perturbation; Satellite ephemeris; J.79B Nos. 1 and 2, 1-15 (1975). SP305-7.
- Variation of the activation energy; Calculation of kinetic parameters; Determination of activation energies; Preexponential factor; Stability of polymers; Thermogravimetric analysis; 9192. SP305.
- Variational; Vlasov; Classical; Collective variables; Eigenfunctions; Eigenvalues; Many-body; Spectrum; 10145. SP305-1.
- Variational equations frequency as wave numbers; Vibrations of square bars; Longitudinal modes; Theory of symmetric

- deformations of plates; Thickness-shear modes; Thickness-stretch modes; *10753. SP305-1.*
- Variational principle; Viscoelasticity; Anisotropy; KBZ fluid; Composite material; Continuum mechanics; Hyperelasticity; Isothermal; Nonlinear; *13355. SP305-5.*
- Various statistical tests; Measured  $\sigma_f(E)$ ; (n,n), (n,y),  $E \approx 1$  eV-few keV; Nuclear reactions; Summary of deduced  $E_\alpha$ ,  $g_{\alpha n}$ ,  $\Gamma_y$ ,  $S_\alpha$ , ( $D_0$ ); *SP425*, pp. 780-783. **SP305-7.**
- Varnish; Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant; Lacquer; Latex; Multicolor; Organic coatings; Paint; Pigments; Polymers; Properties; Resins; Selection; Substrates; *B557. SP305-1.*
- Varying crystallinities; Apparatus; Isothermally crystallized sample; Loss compliance; Loss modulus; Mechanical relaxation; Polychlorotrifluoroethylene; Quenched sample; Storage modulus; Tan  $\delta$ ; Torsion pendulum; *9441. SP305.*
- Vasodilation; Warm sensitive neurons; Anesthesiology; Brain temperature; Carotid artery; Clinical medicine; Cold stress (diver); Disposable thermometry; Esophageal thermometer; Fever; Fulminant hyperpyrexia; Heart temperature; Hypothalamus heat stress; *13631. SP305-5.*
- Vaterite; Borates; Rare-earth; *9592. SP305-1.*
- Vector; Dominance; Meson; Photoproduction-meson;  $SU(6)_W$ ; Symmetry; *11222. SP305-2.*
- Vector; Symmetry; Consistency; Frequency; Superposition; Crystal; Structure; Pattern; *J.70A4-407, 319-321 (1966). SP305.*
- Vector bounds; Volterra vector integral equations; Asymptotic solutions; Eigenvalues; Error term; Matrices; Norm bounds; *J.70B3-180, 167-186 (1966). SP305.*
- Vector current; Axial-vector current; Chiral;  $G_A$ ;  $G^*$ ; Representation-mixing; Sum-rules; *9353. SP305.*
- Vector norm; Consistency; Matrix norm; Monotonicity; Principal submatrix; Spectral radius; *J.79B Nos. 3 and 4, 97-102 (1975). SP305-7.*
- Vector potential; Leakage flux; Magnetic field; Toroid; Transformer; *12371. SP305-3.*
- Vector potential; Magnetic field; Solenoid; Toroid; Transformer; *12372. SP305-3.*
- Vector solution; Approximation errors; Complex dielectric constant; Convergence confidence interval; Contour diagrams; Dielectric liquid; Diffraction; Experimental apparatus; Fresnel equations; Generalized Newton iteration function; Imperfect reflections; *TN369. SP305-1.*
- Vector voltmeter; Amplitude; Computer controlled; Diode detectors; Microwave measurements; Phase angle; Self-calibration; Seven-port junction; *NBSIR 76-844. SP305-8.*
- Vector voltmeter; Delay time; Electronics; High-frequency probes; Sandia bridge; Scattering; S-parameters; Transistors; *NBSIR 73-152. SP305-6.*
- Vector voltmeter; Voltage; Admittance; Automated precision measurements; Correlator; Current; Impedance; Microwave circuit parameters; Microwave measurements; Phase angle; Power; Ratio; Reflection coefficient; Reflectometer; Self-calibration; Six-ports; *TN673. SP305-7.*
- Vector voltmeter; Voltage; Attenuation; Automation; Detector; Insertion loss; Microwaves; Phase angle; Ratio; Six-port junction; *15649. SP305-7.*
- Vector voltmeter; Voltage; Attenuation; Microwave; Phase angle; Ratio; Self-calibration; Six-ports; *15665. SP305-7.*
- Vectorized characters; Alphabets; COM; Computerized typesetting; Digital plotting; Graphics; Hershey character set; Plotting; Type fonts; Typesetting; *SP424. SP305-8.*
- Vegetation; Dielectric constant; Dielectric loss; Dielectric measurements; Soil; *10854. SP305-1.*
- Vehicle characteristics; Automobile fuel consumption; Congestion; Energy conservation; Fuel consumption; Impact assessment; Roadway operating environment; Urban roads; *NBSIR 74-595. SP305-6.*
- Vehicle glazing materials; Automobile paint colors; Automobile windshield color; Photometric tests; Spectral reflectance; Spectral transmittance; Transmittance variation; *NBSIR 519. SP305-6.*
- Vehicle inspection; Airport pavements; Bridge inspection; Neutron testing; Pipeline inspection; Railroad inspection; Transportation; *15213. SP305-7.*
- Vehicle leasing; Vehicle management; Fleet management; Life cycle costing; Patrol cars; Police fleets; *NBSIR 74-4. SP305-6.*
- Vehicle leasing; Vehicle management; Fleet management; Life cycle costing; Patrol cars; Police fleets; *NBSIR 75-4. SP305-8.*
- Vehicle management; Fleet management; Life cycle costing; Patrol cars; Police fleets; Vehicle leasing; *NBSIR 74-4. SP305-6.*
- Vehicle management; Fleet management; Life cycle costing; Patrol cars; Police fleets; Vehicle leasing; *NBSIR 75-4. SP305-8.*
- Vehicle movement; Carpet; Floor coverings; Foot comfort; Performance requirements; Resilient types; Test methods; Tile types; *11792. SP305-2.*
- Vehicle road tests; Brake friction materials; Coefficient of friction; Friction assessment screening test machine; Friction materials test machine; Girling scale dynamometer; Inertia brake dynamometer; *12051. SP305-3.*
- Vehicles; Friction; Rubber; Skid; Tire contact; Tire cord; Tire stress; Tire structure; Tires; *Monogr. 122. SP305-4.*
- Vehicular collision; Bombs; Building codes; Design criteria; Explosions; Gas; Hazardous materials; Loads; Progressive collapse; Sonic boom; *B5589. SP305-8.*
- Vehicular impact; Collisions of vehicles with buildings; Multistory buildings; Progressive collapse of buildings; Residential buildings; *13781. SP305-5.*
- Veiling; Annealing; Fracture energy ( $\gamma_c$ ); Isostatic forging; Kinking; Microstructures; Recrystallization temperature; *SP462*, pp. 87-94 (Dec. 1976). **SP305-8.**
- Veiling glare; Blooming; Contrast transfer function; Distortion; Flare; Image quality; Light induced background; Limit resolution; Night vision devices; Optical transfer function; Resolution charts; *16599. SP305-8.*
- Veiling reflections; Visual performance; Visual task; Illumination systems; Lighting; Performance concept; Task contrast; *SP361, Vol. 1*, pp. 483-490. **SP305-4.**
- VELA satellite; VLF sudden phase anomalies measurements; Solar x-ray emission measurements; *10192. SP305-1.*
- Velocity; Absorption; Acoustic; A-scan; Attenuation; B-scan; Frequency; Image; Impedance; Medical diagnosis; Microscopy; Pattern recognition; Reconstruction; Scattering; Tissue characterization; Tissue parameters, tissue signature; Tumor; Ultrasonic spectroscopy; Ultrasound; *SP453. SP305-8.*
- Velocity; Absorption; Attenuation; Mammalian tissues; Tissue parameters; Ultrasound; *SP453*, pp. 21-28 (Oct. 1976). **SP305-8.**
- Velocity; Absorption; Attenuation; Impedance gradient; Transient thermal gradients; Ultrasonics; *SP453*, pp. 143-148 (Oct. 1976). **SP305-8.**
- Velocity; Absorption; Attenuation; Brain; Neoplasm; Thermal effects; Tissue; Tumor; Ultrasonic; *SP453*, pp. 1163 (Oct. 1976). **SP305-8.**
- Velocity; Acoustic imaging; Acoustic microscopy; Attenuation; Frequency dependence; Impedance; Microstructural analysis; Tissue; Ultrasound; *SP453*, pp. 261-267 (Oct. 1976). **SP305-8.**
- Velocity; Anthropometric; Automobile; Crash; Displacement; Forces; Human; Impact; *11728. SP305-2.*
- Velocity; Attenuation; Breast; Reflection techniques; Ultrasound; *SP453*, pp. 135-139 (Oct. 1976). **SP305-8.**

- blotchy; Attenuation; Breast tissue; Broadband; High resolution; Imaging; Large aperture; Pathology; Pellicle; Phase-contrast; Transmission; Ultrasound; *SP453*, pp. 121-133 (Oct. 1976). **SP305-8.**
- blotchy; Attenuation; Phase; Swept frequency; Time delay spectrometry; Tissue; Transmission; *SP453*, pp. 81-95 (Oct. 1976). **SP305-8.**
- blotchy; Carpets with and without underlayment; Corridor fires; Energy models; Finished interior; Full scale experiments; Interaction; Measurements; Smoke; Smoke and flame spread; Temperature; With and without forced air; *15230*. **SP305-7.**
- blotchy autocorrelation function; Diffusion coefficient; Harmonic crystal; *12906*. **SP305-4.**
- blotchy autocorrelation function; 11-6-8 potential; Axilrod-Teller correction; Dense liquid; Excess function; Hydrodynamic limit; Molecular dynamics; Rare gases; *15168*. **SP305-7.**
- blotchy average; Atomic beam; Frequency shift; Rabi spectrometer; Schrödinger equation; Transition probability; *10430*. **SP305-1.**
- blotchy calibration; Mossbauer; Spectroscopy; Standard; Differential chemical shift; Quadrupole splitting; Random error; Systematic error; Sodium nitroprusside; Iron compounds; Optical Mossbauer spectrometer; Tandem Mossbauer spectrometer; *TM60-13*. **SP305.**
- blotchy correlation function; Liquid diffusion; Tunnel model; *14079*. **SP305-6.**
- blotchy dependence; Alkali resonance; Cesium; Collisions; Cross sections; Line broadening; Rubidium; *10746*. **SP305-1.**
- blotchy distribution; Atomic beams; Cavity phase shift; Cesium beam; Frequency accuracy; Frequency standard; Pulsed excitation; Second-order Doppler shift; *13985*. **SP305-6.**
- blotchy distribution; Atomic beams; Cavity phase shift; Cesium beam; Frequency standard; Pulsed excitation; Second-order Doppler shift; *13991*. **SP305-6.**
- blotchy distribution; Cavity phase shift; Cesium beam tube; Frequency synthesis; Pulse method; Ramsey dual interaction region; Second-order doppler; *14829*. **SP305-7.**
- blotchy distribution; Vlasov equation; Electron trapping; Non-linear; Numerical; Selective harmonic excitation; Two-stream; *J73B No. 4, 293-300 (1969)*. **SP305-1.**
- blotchy distributions; Drift tubes; *15892*. **SP305-8.**
- blotchy fields; Planetary nebulae; Radiative transfer; Spectral lines; *10994*. **SP305-2.**
- blotchy gradients; Balmer lines; Lyman continuum; Non-coherent scattering; Optical depth; Planetary nebulae; Radiative transfer; *10755*. **SP305-1.**
- blotchy of light; Electrooptic modulation; Optical frequencies; *10828*. **SP305-1.**
- blotchy of light; Interferometry; Laser; Optical heterodyne; *12454*. **SP305-4.**
- blotchy of light; Upper limit of frequency dependence; Vacuum dispersion; *12797*. **SP305-4.**
- blotchy of sound; Absorption; Acoustics; Attenuation; Liquids; Sound; Speed of sound; *13182*. **SP305-5.**
- blotchy of sound; Critically evaluated data; Critical point; Density; Enthalpy; Entropy; Equation of state; Heat capacity; Ideal gas properties; Latent heat; Nitrogen; Second virial coefficient; Vapor pressure; *J. Phys. Chem. Ref. Data 2, No. 4, 757-922 (1973)*. **SP305-6.**
- blotchy of sound; Delay line; Frequency stability; Gage; High pressure; Self-excited pulse repetition; Temperature compensation; Ultrasonics; *9331*. **SP305.**
- blotchy of sound; Density; Enthalpy; Entropy; Equation of state; Fixed points (PVT); Joule-Thomson; Latent heat; Melting curve; Oxygen; Properties of fluids; Saturated liquid and vapor; Specific heat; *J74A No. 1, 93-129 (1970)*. **SP305-2.**
- blotchy of sound; Density; Enthalpy; Entropy; Hydrogen; Properties of fluids; Specific heat; *15022*. **SP305-7.**
- Velocity of sound; Uranium dioxide; Compressibility; Elastic constants; Elastic compliances; Single crystal; *9173*. **SP305.**
- Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; Saturation densities; Specific heats; Vapor pressure; *TN392. (Revised September 1973)*. **SP305-5.**
- Velocity of sound; Virial coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; Saturation densities; Specific heats; Vapor pressure; *TN392*. **SP305-2.**
- Velocity of sound; Viscosity; Computer programs; Density; Enthalpy; Entropy; Heat capacity at constant pressure; Heat capacity at constant volume; Heat capacity ratio; Heat transfer coefficient; Hydrogen; Pressure; Saturation boundary; Temperature; *TN625*. **SP305-5.**
- Velocity of sound; Water; Bulk modulus; Density; Equation of state; High pressure; *10983*. **SP305-2.**
- Velocity/elastic waves; Crystal properties; Debye temperature; Elastic constants; *12897*. **SP305-4.**
- Velocity-gradients; Boundary layer; Grid; Intermittency, moments; Statistical properties; Turbulence; *15116*. **SP305-7.**
- Velocity-gradients; Computer; Correlations; Grid; Intermittency; Isotropy; Moments; Probability-distributions; Turbulence; *12316*. **SP305-3.**
- Vendor qualification; Circuit procurement; Component screening; Custom circuits; LSI; Microelectronics; Parameter control; Process uniformity; Random faults; Reliability; Test patterns; TTL; *16620*. **SP305-8.**
- Veneer grades, decorative softwood and hardwood; Decorative plywood; Hardwood plywood; Plywood, hardwood and decorative; Softwood plywood, decorative; *P551-71*. **SP305-4.**
- Vent; Waste; ABS; Cast iron; Copper; Drain; Fire endurance; Fire spread; Fire test; Operation BREAKTHROUGH; Plastic pipe; PVC; Smoke; Toxic gases; *NBSIR 74-449*. **SP305-7.**
- Vent pipe; Waste pipe; ABS, building fires; Drain pipe; Fire spread; Pipe chase; Smoke; Temperature; *14227*. **SP305-6.**
- Ventilation; Air infiltration and extraction, airtightness; Discomfort index; Duct system, collective and individual branch; Flow rates; Noise; Pressure-loss-depression; Thermal convection; *TN710-3*. **SP305-4.**
- Ventilation; Air leakage; Arctic; Central heat distribution systems; Construction materials; Drainage; Insulation; Permafrost; Seasonal frost; Snow drifting; Utilidors; *B5566*, pp. 122-135. **SP305-7.**
- Ventilation; Air quality; Intermittent operation; Maximum allowable concentration of CO<sub>2</sub>; New York City schools; *16550*. **SP305-8.**
- Ventilation; Exchanger dimensions; Frost formation; Heat exchanger; Heating costs; Mechanical systems; Pollution; Pressure loss; *TN710-5*. **SP305-4.**
- Ventilation; Water heating; Air leakage; Building design; Energy conservation; Fenestration; HVAC systems; Illumination; Insulation; Lighting; Performance standard; Thermal performance; *NBSIR 74-452*. **SP305-8.**
- Ventilation; Wind; Air inlet; Discomfort index; Draft; Outside wall; *TN710-6*. **SP305-5.**
- Ventilation of office buildings; Air infiltration; Energy conservation; Measurement techniques; *16342*. **SP305-8.**
- Ventilation requirements; Coincident summer weather characteristics; Fallout shelter; Thermal environment; *9868*. **SP305-1.**
- Venting; Building structures; Damage; Gas explosions; Limiting pressures; Load-bearing brickwork; *SP361, Vol. 1*, pp. 577-592. **SP305-4.**
- Venting; Buildings; Cellulosics; Fires; Polymers; Smoke; *13677*. **SP305-5.**

Venting; Venting criteria; Vents, reduced-size; DWV; Performance testing; Reduced-size vents; Trap-seal retention; *BSS60*, SP305-7.

Venting criteria; Venting, reduced-size; Air demand; Criteria for venting; Reduced-size venting; Trap performance; Trap-seal retention/reduction; *14612*, SP305-6.

Venting criteria; Vents, reduced-size; DWV; Performance testing; Reduced-size vents; Trap-seal retention; Venting; *BSS60*, SP305-7.

Venting, reduced-size; Air demand; Criteria for venting; Reduced-size venting; Trap performance; Trap-seal retention/reduction; Venting criteria; *14612*, SP305-6.

Vents; Automobile; Detection; Dispersion; Explosion; Fire; Hydrogen; Leakage; Methane; Safety; *TN666*, SP305-7.

Vents; Automobile; Detection; Dispersion; Explosion; Fire; Hydrogen; Leakage; Methane; Safety; *16634*, SP305-8.

Vents for plumbing; Hydraulic criteria for plumbing; Hydraulic test loads; Plumbing-vent sizing; Reduced-size vents; Sanitary DWV systems; Secondary ventilation; Testing plumbing systems; *BSS49*, SP305-6.

Vents, reduced-size; DWV; Performance testing; Reduced-size vents; Trap-seal retention; Venting; Venting criteria; *BSS60*, SP305-7.

Venture capital; Capital market imperfections; Federal technology policy; SBIC's; Securities and tax regulation; Small firm finances; Technological change; Technology subsidies; *NBS-GCR-ETIP 76-08*, SP305-8.

Venture capital; Capital market imperfections; Federal technology policy; SBIC's; Securities and tax regulation; Small firm finances; Technological change; Technology subsidies; *NBS-GCR-ETIP 76-12*, SP305-8.

Venturi; Cavitation; Cryogenics; Hydrofoil; Nucleation; Pumps; *13241*, SP305-5.

Venturi; Cavitation; Cryogenics; Hydrofoil; Nucleation; Ogives; Pumps; *13735*, SP305-5.

Venturi; Cavitation; Cryogenics; Hydrofoil; Impellers; Inducers; Ogives; Pumps; *14681*, SP305-6.

Venturi; Water; Critical flow; Pressure profile; Steam; *TN608*, SP305-3.

Venturi flow; Critical flow; Droplet flow; Liquid film flow; Transport coefficients; Two-component flow; Two-phase flow; *12912*, SP305-4.

Verbalized response; Attitude scale; Building performance; Comparative user response; User behavior; User satisfaction; *SP361*, Vol. 1, pp. 111-119, SP305-4.

Verdet coefficient;  $\text{Bi}_2\text{Ga}_2\text{O}_{24}$ ;  $\text{Bi}_{12}\text{GeO}_{20}$ ;  $\text{Bi}_{12}\text{SiO}_{20}$ ;  $\text{Bi}_{12}\text{TiO}_{20}$ ;  $\text{Bi}_4\text{ZnO}_{22}$ ; Faraday effect; Modulator materials; Optical activity; Optical rotatory power; *11807*, SP305-3.

VERI (versatile ratio instrument); DRRS (direct reading ratio set); Junction; Precision measurements; Ratio; Resistor; Four-terminal; Resistance decade; Transresistance; URS (universal ratio set); *J70C3-228*, 169-172 (1966), SP305.

Verification; ADP security; Computer networks; Controlled accessibility; Encryption; Evaluation criteria; Key; Password; Personal identification; Terminals; *16013*, SP305-8.

Verschaffelt; Coexistence curves; Critical exponents; Fluid critical point; History; Kamerlingh Onnes collection; Surface tension; Van der Waals collection; *16372*, SP305-8.

Vertex of a diffuse conical or V-groove cavity; V-groove cavity; Diffuse conical or V-groove cavity; Emissivity, vertex of a diffuse conical or V-groove cavity; Equation, apparent local emissivity; *9833*, SP305-1.

Vertical antenna; Duplexer; Fm transceiver; Land-mobile communications; Law enforcement; Repeater; *14990*, SP305-7.

Vertical cylinder; Cryogenic; Heat transfer; Hemisphere; Horizontal cylinder; Liquid deuterium, liquid hydrogen, liquid nitrogen; Natural convection; Sphere; *NBSIR 75-807*, SP305-7.

Vertical cylinder; Cryogenics; Heat transfer; Hemisphere; Horizontal cylinder; Liquid deuterium, liquid hydrogen, liquid nitrogen; Natural convection; Sphere; *16207*, SP305-4.

Vertical interval signals; Frequency and time dissemination; Television; *11949*, SP305-3.

Vertical loads; Wall panels; Walls; Lateral loads; Loading rack; Racking; Test method; *BSS91*, SP305-8.

Vertical resolution; Electron microscopes; Horizontal resolution; Optical instruments; Stylus instruments; Surface texture measurement; Surface texture parameters; *15613*, SP305-7.

Vertical separation; Aircraft; Air transportation; Air traffic control models; Altimetry; Altitude; Aviation; Collision risk; Error analysis; Mathematical models; Safety; Separation; *NBSIR 76-1067*, SP305-8.

Vertical tests; Flammability; Strip tests; Testing; Testing equipment; *12656*, SP305-4.

Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; Time signals; *SP236*, 1973 Edition, SP305-5.

Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; Time signals; *SP236*, 1972 Edition, SP305-4.

Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; Time signals; *SP236*, 1971 Edition, SP305-3.

Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; Time signals; *M236*, 1967 Edition, SP305.

Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; Time signals; *9237*, SP305.

Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; Time signals; *SP236*, 1969 Edition, SP305-1.

Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; Time signals; *SP236*, 1968 Edition, SP305-1.

Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; Time signals; *SP236*, 1974 Edition, SP305-6.

Very low frequency; Broadcast of standard frequencies; High frequency; Low frequency; Standard frequencies; Time signals; *SP236*, 1970 Edition, SP305-2.

Very low temperatures; Barium titanate; Dielectric properties; Ferroelectrics; KDP; PZT 65/35; Thallium chloride; *16491*, SP305-8.

Veterans' Administration; Architecture; Building systems; Design; Hospital design; Medical facilities; Modular design; Performance; *BSS54*, pp. 31-44, SP305-6.

Veterans' Administration; Computer-aided planning; Design; Electronic data processing; Hospital planning; Medical facilities; Planning; *BSS54*, pp. 27-30, SP305-6.

Veterans' Administration; Criteria; Hospital planning; Medical facilities; Planning; *BSS54*, pp. 25-26, SP305-6.

Veterans Administration Hospital; Experiments; Full-scale; Gas tracer; Interstitial space; Penetration through ceiling; Smoke movement; Smoke simulation; Sulfur hexa-fluoride ( $\text{SF}_6$ ); *NBSIR 75-903*, SP305-7.

V-flame; Flame field; Flame holder calculation; Flame simulation; Flame speed; Flame vorticity; *10036*, SP305-1.

V-groove cavity; Diffuse conical or V-groove cavity; Emissivity, vertex of a diffuse conical or V-groove cavity; Equation, apparent local emissivity; Vertex of a diffuse conical or V-groove cavity; *9833*, SP305-1.

V-grooves; Reflectance; Specular walls; Thermal radiation; *J70C4-238*, 275-280 (1966), SP305.

VHF; Avalanche transistor; Frequency calibration; Impulse; Picosecond; Spectral intensity; UHF; *12785*, SP305-4.

VHF; VLF; HF; Noise; Satellite; Synchronization; Time and frequency dissemination; *TN357*, SP305.



HF bridge; VHF magnetic materials; Admittance meter; Attenuation calibration; Lossy magnetic materials; Magnetic measurement methods; Permeability; RF magnetic materials; *J72C No. 1, 81-89 (1968). SP305-1.*

HF magnetic materials; Admittance meter; Attenuation calibration; Lossy magnetic materials; Magnetic measurement methods; Permeability; RF magnetic materials; VHF bridge; *J72C No. 1, 81-89 (1968). SP305-1.*

HF propagation satellite timing; Atomic standards; ATS-1; Clock synchronization; Time dissemination; *11314. SP305-2.*

HF satellite transponder; Atomic clocks; Clock synchronization; Geodesy; Ionospheric propagation; Navigation; Satellite tracking; *10955. SP305-2.*

HF satellite transponder; Atomic oscillators; Clock synchronization; *11004. SP305-2.*

Vibrating coil; Cryogenic; Demagnetization; Instrumentation; Magnetic moment; Magnetization; Magnetometer; *9825. SP305-1.*

Vibrating membranes; Air impedance; Compliant surface; Drag reduction; Membranes; Tension; *16625. SP305-8.*

Vibrating-reed electrometer; Remote positioner; Rotary switches; *9471. SP305.*

Vibrating-sample magnetometer; Bimorph; Cryogenic; Low-temperature; Magnetometer; Piezoelectric; *12046. SP305-3.*

Vibrating-sample magnetometer; Ferro- and ferrimagnetism; Magnetization; Magnetometer calibration; Measurement of magnetization; Saturation magnetization; *J70C4-236, 255-262 (1966). SP305.*

Vibrating-sample magnetometer; Magnetization; Magnetometer calibration; *10864. SP305-2.*

Vibrating-sample magnetometer; Magnetization; Magnetometer calibration; *10864. SP305-2.*

Vibration; Absorption spectra; Infrared; Instrumentation; Potential functions; Spectroscopy; *11379. SP305-2.*

Vibration; Acceleration response; Evaluation; Fatigue life; Lumped parameter system; Mechanical impedance; Random vibration; Test; Transfer impedance; Transmissivity equalization; *SP336, pp. 509-524. SP305-3.*

Vibration; Accelerometer; Calibration; Comparison calibration; Frequency range; Shaker; *9306. SP305.*

Vibration; Accelerometer; Calibration; Pickup; Resonance; *10414. SP305-1.*

Vibration; Accelerometer; Calibration; Low frequency; Signal insertion; *NBSIR 74-597. SP305-7.*

Vibration; Analysis; Deflection; Design; Dynamic; Experimental; Human sensitivity; Loading functions; Specifications; Static; Structural engineering; Subsystems; *BSS47. SP305-5.*

Vibration; Analysis; Experimental; Floor systems; Human response; Random process; Spectral analysis; *TN904. SP305-8.*

Vibration; Analysis; Experimental; Floor systems; Human response; Random process; Spectral analysis; *NBSIR 75-951. SP305-8.*

Vibration; Barrier to rotation; Crystal force field; Crystal structure; Lattice modes; Phosphonium halides; Raman spectra; Torsional frequency; *11441. SP305-2.*

Vibration; Bearings; Diagnostics; Gears; Reliability; Signature analysis; *SP336, pp. 407-448. SP305-3.*

Vibration; Boundary initial problems; Measurement; Pressure transducer; Transducer calibration; *TN856. SP305-7.*

Vibration; Cesium hydroxide; Dipole moment; High temperature; Microwave; Molecular structure; Spectrum; *9895. SP305-1.*

Vibration; Crystal; Crystal structure; Diffraction; Lattice dynamics; Molecular dynamics; Molecular solid; Rotation; Spectroscopy; *SP301. SP305-1.*

Vibration; Crystal structure; Force field; Hindered rotation; Laser; Phosphonium halides; Raman spectra; Torsional oscillation; *11103. SP305-2.*

Vibration; Debye-Waller factor; Hydrogen diffusion; interstitial site; Linewidth; Momentum transfer; Neutron scattering, quasielastic scattering; Vanadium hydride; *12822. SP305-4.*

Vibration; Deflection; Dynamic; Floor systems; Human responses; Performance criteria; Serviceability; Static; *TN900. SP305-8.*

Vibration; Deflection; Load capacity; Performance criteria; Performance evaluation; Stiffness; Strength; Structural engineering; Structures; User requirements; *SP361, Vol. 1, pp. 261-266. SP305-4.*

Vibration; Diesel-electric sets; Gears; Looseness; Signature analysis; Unbalance; *NBS-GCR-74-22. SP305-8.*

Vibration; High amplitude; Internal rotation; PF<sub>3</sub>; Pseudorotation; Raman; *15370. SP305-7.*

Vibration; Vibration exciter; Accelerometer; Calibration; Harmonic distortion; Low frequency; Pickup; *15567. SP305-7.*

Vibration; Vibration exciters; Vibration pickups; Acceleration; Automation; Calibration; Measurements; Shakers; Standards; Transducers; *15569. SP305-7.*

Vibration; Vibration exciters; Vibration pickups; Acceleration; Automation; Calibration; Measurements; Minicomputer; Shakers; Standards; Transducers; *NBSIR 74-482. SP305-7.*

Vibration; Vibration pickup; Calibration; Damped resonant cylinders; Damping; Piezoelectric shaker; Stagger-tuned shaker; *11346. SP305-2.*

Vibration; Viscosity; Acoustics; Fluid mechanics; Force; Gravity; Humidity; Pressure; Strain; Vacuum; *SP300, Volume 8. SP305-4.*

Vibration; Wind load; Wood frame construction; Building damping; Drift; Dynamics; Earthquake; Frequency; Housing; Lateral resistance; Racking; Stiffness; Structural deflections; *BSS44. SP305-5.*

Vibration; Wood-frame; Deflection; Housing; Laboratory; Module; Racking; Stiffness; Strength; Structural tests; Sustained load; Transportation; *13389. SP305-5.*

Vibration amplitude; Neutron scattering; Orientational disorder; Phase transition; Reorientation; Residence time; Rubidium hydrosulfide; *13930. SP305-6.*

Vibration amplitudes; Hydrogen diffusion; Hydrogen in tantalum; Interstitial sites; Neutron scattering; Quasielastic scattering; Residence time; Single crystal; *14368. SP305-6.*

Vibration analysis; Wind load; Finite element; Guyed tower; Structural analysis; Structural engineering; *SP444, pp. IV-37-IV-54 (Apr. 1976). SP305-8.*

Vibration exciter; Accelerometer; Calibration; Harmonic distortion; Low frequency; Pickup; Vibration; *15567. SP305-7.*

Vibration exciters; Vibration pickups; Vibration standards; Absolute calibration; Accelerometers; Calibration; Reciprocity calibration; *NBSIR 74-481. SP305-6.*

Vibration exciters; Vibration pickups; Acceleration; Automation; Calibration; Measurements; Shakers; Standards; Transducers; Vibration; *15569. SP305-7.*

Vibration exciters; Vibration pickups; Acceleration; Automation; Calibration; Measurements; Minicomputer; Shakers; Standards; Transducers; Vibration; *NBSIR 74-482. SP305-7.*

Vibration (floors); Deflection (floors); Dwelling; Floor (wood); Joists; Loads; Performance criteria; Strength (floors); *SP361, Vol. 1, pp. 593-600. SP305-4.*

Vibration generation; Elastomers; Electrets; Electrically controlled damping; Electrostriction; Piezoelectricity; Polymers; *10915. SP305-2.*

Vibration pickup; Calibration; Damped resonant cylinders; Damping; Piezoelectric shaker; Stagger-tuned shaker; Vibration; *11346. SP305-2.*

Vibration pickups; Acceleration; Automation; Calibration; Measurements; Shakers; Standards; Transducers; Vibration; Vibration exciters; *15569. SP305-7.*

Vibration pickups; Acceleration; Automation; Calibration; Measurements; Minicomputer; Shakers; Standards; Transducers; Vibration; Vibration exciters; *NBSIR 74-482. SP305-7.*

- Vibration pickups; Accelerometer; Axial motion; Ceramic; Comparison calibration; Transfer standard; Transverse motion; 9813. **SP305-1.**
- Vibration pickups; Vibration standards; Absolute calibration; Accelerometers; Calibration; Reciprocity calibration; Vibration exciters; *NBSIR 74-481*. **SP305-6.**
- Vibration spectra; Ammonium salt; Barrier to rotation; Ferroelectric; Neutron scattering; Phase transition; Torsional vibrations; 10043. **SP305-1.**
- Vibration spectra; Chromous acid;  $\text{DCrO}_2$ ;  $\text{HCrO}_2$ ; Hydrogen bond; Infrared spectra; Isotope effect; Lattice modes; Neutron spectra; 10040. **SP305-1.**
- Vibration spectra; Crystal structure; Frequency distribution; Hydrogen positions; Hydrogen vibration; Metal hydride; Neutron inelastic scattering; Phase transformation; Vanadium hydride; 10598. **SP305-1.**
- Vibration spectra; Water librations; Cold neutrons; Coordination; Hydrated salts; Hydrates; Hydrogen-bonding; Neutron scattering; 9505. **SP305.**
- Vibration spectrum; Cold neutrons; Frequency; Inelastic scattering; Metal hydrides; Neutron scattering; Optical vibration; 9506. **SP305.**
- Vibration spectrum; Fluorescence; Phosphorescence; Pyrazine; Singlet emission; Spectrum of pyrazine in benzene; Triplet emission; 13092. **SP305-5.**
- Vibration standard; Accelerometers; Calibration; Shakers; Time-shared computers; 9983. **SP305-1.**
- Vibration standard; Air bearing; Ceramic moving element; Electrodynamic shaker; Piezoelectric accelerometers; Reciprocity; Secondary standard; 9297. **SP305.**
- Vibration standards; Absolute calibration; Accelerometers; Calibration; Reciprocity calibration; Vibration exciters; Vibration pickups; *NBSIR 74-481*. **SP305-6.**
- Vibration transducer; Dynamic pressure transducer; Polymeric film transducer; Sandwiched polymeric films; *U.S. Patent 3,970,862*. **SP305-8.**
- Vibration transducers; Acceleration transducers; Displacement transducers; Jerk transducers; Measurement of motion; Motion transducers; Transducer compendium; Velocity transducers; 12778. **SP305-4.**
- Vibrational; Acetylene probability; Franck-Condon factors; Photoionization; Transition; 10027. **SP305-1.**
- Vibrational; Data; Frequencies; Molecular; Spectral; Tables; *NSRDS-NBS17, Part 3*. **SP305-1.**
- Vibrational; Frequencies; Data; Tables; Force; Constants; Spectral; Molecular; *NSRDS-NBS6*. **SP305.**
- Vibrational amplitude; Activation energy; Hydrogen diffusion; Neutron scattering; Quasielastic scattering; Resonance time; Tantalum hydrides; 15264. **SP305-7.**
- Vibrational amplitude; Vibrational spectra; Coriolis constant; Force field; Infrared; Isotopic shift; Ruthenium tetroxide; 11370. **SP305-2.**
- Vibrational analysis;  $\sigma^{\pi}$  state; CO; Electronic spectra; Rotational analysis; 13691. **SP305-5.**
- Vibrational analysis; Gas;  $\text{ONF}_3$ ; Raman spectroscopy; Thermodynamic properties; 14009. **SP305-6.**
- Vibrational analysis; Vibrational and rotational constants; Absorption spectrum; CO; Electronic transitions; Rotational analysis; *J.75A No. 5, 455-467* (1971). **SP305-3.**
- Vibrational and rotational constants; Absorption spectrum; CO; Electronic transitions; Rotational analysis; Vibrational analysis; *J.75A No. 5, 455-467* (1971). **SP305-3.**
- Vibrational assignment; Alkali hydroxides; High temperature; Infrared; Matrix; NaOD; NaOH; RbOD; RbOH; 11845. **SP305-3.**
- Vibrational assignment; CsOH; High temperature; Infrared; Molecular geometry; 10813. **SP305-1.**
- Vibrational assignment;  $\text{C}_6\text{F}_6$ ;  $\text{C}_6\text{Cl}_6$ ;  $\text{C}_6\text{Br}_6$ ;  $\text{C}_6\text{I}_6$ ; Hexahalogenated benzenes; Raman; Laser; 12299. **SP305-3.**
- Vibrational assignment; Force field; Infrared; Lithium fluoride dimer; Low temperature; Matrix; *J.72A No. 5, 487-495* (1968). **SP305-1.**
- Vibrational assignment; Infrared; Laser; Low temperature Raman; Trifluoramine oxide; 11240. **SP305-2.**
- Vibrational assignment; Infrared spectrum; Knudsen effusion Matrix isolation; Molecular structure,  $\text{NbF}_5$ ; 13060. **SP305-1.**
- Vibrational assignment; Vibrational fundamental Chlorodifluoramine; Infrared spectra; Matrix-isolation; Spectra; 9294. **SP305.**
- Vibrational band; Absorption spectrum; Rydberg series; SF<sub>6</sub>; Spectral region 80 Å to 630 Å; 9637. **SP305-1.**
- Vibrational constants; Absorption; Energy levels; Gas laser HCH, hydrogen cyanide; Infrared; Spectra; Rotational constants; 12044. **SP305-3.**
- Vibrational constants of  $\text{H}_2^-$ ; Absolute electron energy scale;  $\text{D}_2$ ,  $\text{D}_2^-$ ; Electron scattering resonances; HD,  $\text{HD}^-$ ;  $\text{H}_2$ ,  $\text{H}_2^-$ ; 9872. **SP305-1.**
- Vibrational coordinates; Double-valued presentation; Free internal rotation; Hamiltonian energy operator; Non-rigid molecules; Permutation-inversion group; 13647. **SP305-5.**
- Vibrational eigenenergies  $\text{D}_2^+$ ; Franck-Condon factors  $\text{H}_2^+(\Sigma^+)$ ; Ionization  $\text{D}_2^+(\Sigma_u^+)$ ; 9684. **SP305-1.**
- Vibrational energy; Ammonia; Mass spectrometry; Photoionization; Rate constants; Thermal energy; 12999. **SP305-4.**
- Vibrational energy; Chemical reactions; Classical probability matrix theory; Classical scattering matrix theory; Collision theory; Energy transfer in collisions; Hydrogen molecules; Ionization theory; Scattering theory; Trajectories; 16607. **SP305-8.**
- Vibrational energy levels;  $\text{D}_0^0(\text{HF})$ ;  $\text{D}_2^0(\text{HF}^+)$ ; Dissociation energy; Hartree-Fock; Photoelectron spectra; 12502. **SP305-4.**
- Vibrational energy transfer; Bibliography; Chemical kinetics; Chemiexcitation; Gas phase; Halogens; Hydrogen; Hydrogen halides; Laser; Quenching; *SP392*. **SP305-6.**
- Vibrational energy transfer; Carbon monoxide; Infrared lasers; Laser pumping of molecules; 13440. **SP305-5.**
- Vibrational energy transfer;  $\text{CO}_2$ ; Exchange forces; Hydrogen halides; Line widths; Straight path; 14344. **SP305-5.**
- Vibrational energy transfer; Infrared lasers; Laser pumping of molecules; Nitric oxide; 13680. **SP305-5.**
- Vibrational energy transfer; Infrared laser; Laser chemistry; Mass spectrometry; Molecular beam; Phase spectroscopy; 14397. **SP305-6.**
- Vibrational exchange; Energy transfer; Infrared lasers; Molecular collisions; 14323. **SP305-6.**
- Vibrational excitation; Close-coupling calculations; Crossed beams; Cross sections; Differential cross sections; Electron scattering; Inelastic scattering; Nitrogen molecules; Polarization potential; Scattering; Static potential; 16533. **SP305-8.**
- Vibrational excitation; Doppler broadening; Electronic excitation; Low energy elastic electron scattering; Low energy inelastic electron scattering; Lyman-Birge-Hopfield bands; Metastable states; Molecular nitrogen; Negative ions; Nitrogen window; 9776. **SP305-1.**
- Vibrational excitation; Electron scattering;  $\text{H}_2$ ,  $\text{H}_2^-$ ; Resonances; 9365. **SP305.**
- Vibrational excitation; Water vapor discharge; Water vapor laser; Infrared laser; 13623. **SP305-5.**
- Vibrational force field;  $\text{BF}_3$ ; Coriolis; Isotope effects; 13310. **SP305-5.**
- Vibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; Raman spectra; *NSRDS-NBS39*. **SP305-4.**
- Vibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; Raman spectra; *J. Phys. Chem. Ref. Data 1, No. 1, 189-216* (1972). **SP305-6.**
- Vibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; Raman spectra; *J. Phys. Chem. Ref. Data 2, No. 1, 121-161* (1973). **SP305-6.**

- ibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; Raman spectra; *J. Phys. Chem. Ref. Data* 2, No. 2, 225-256 (1973). **SP305-6.**
- ibrational frequencies; Fundamental frequencies; Infrared spectra; Polyatomic molecules; Raman spectra; *J. Phys. Chem. Ref. Data* 3, No. 1, 269-308 (1974). **SP305-6.**
- ibrational frequency; Dipole moment; Ethynylidifluoroborane; Microwave spectrum; Rotational constant; Structure; *14366*. **SP305-6.**
- ibrational frequency; High temperature matrix isolation; Infrared; Uranium monoxide; Uranium oxides; *12262*. **SP305-3.**
- ibrational fundamental; Centrifugal distortion; Force field; Microwave spectrum;  $SF_6$ ; Structure; *13905*. **SP305-6.**
- ibrational fundamentals; Barrier height to internal rotation; Fluoroethanes with a symmetric top; Ideal gas thermodynamic functions; Reduced and principal moments of inertia; Standard heat of formation; *J. Phys. Chem. Ref. Data* 4, No. 2, 441-456 (1975). **SP305-7.**
- ibrational fundamentals; Chlorodifluoramine; Infrared spectra; Matrix-isolation; Spectra; Vibrational assignment; *9294*. **SP305.**
- ibrational fundamentals; Chlorofluoromethanes; Ideal gas thermodynamic functions; Principal moments of inertia; Standard enthalpy of formation; *JPCRD* 5, No. 3, 571-580 (1976). **SP305-8.**
- ibrational fundamentals; Hydrogen cyanide; Infrared; Molecular spectroscopy; Spectroscopy; *15925*. **SP305-8.**
- ibrational levels; Cross sections;  $D_2^+$ ;  $H_2^+$ ; Photodissociation; Theory; *10742*. **SP305-1.**
- ibrational machining; Wheel machining; Abrasive; Ceramic machining; Sonic machining; *SP348*, pp. 133-139. **SP305-4.**
- ibrational matrix elements; Hydrogen; Intensity; Quadrupole spectrum; Rotation-vibration interaction; *9805*. **SP305-1.**
- ibrational modes; X-ray diffraction; Dynamical diffraction; Extinction; Kinematical diffraction; Piezoelectricity; Theory; Thickness vibration; *11361*. **SP305-2.**
- ibrational nuclei; Anharmonicities; Branching ratio; Charge distribution; Electron scattering; Quadrupole phonons; *16507*. **SP305-8.**
- ibrational overlap; Born-Oppenheimer; Hartree-Fock; Molecular hydrogen; Partial widths; Potential curve; Predissociation; *12102*. **SP305-3.**
- ibrational populations; Floquet theory; Laser-induced reactions; Multiphoton processes; Numerical calculations; Relaxation phenomena; *16242*. **SP305-8.**
- ibrational potential function; Alkali metal reactions;  $BrHBr^-$ ; Charge transfer;  $ClHCl^-$ ; Electron attachment; Infrared spectrum; Matrix isolation; Molecular rotation; Vacuum-ultraviolet photolysis; *12369*. **SP305-3.**
- ibrational potential function; Vibration-rotation interactions; Anharmonic constants; Fermi resonance; Linear molecules; *11548*. **SP305-2.**
- ibrational potential functions; Vibration-rotation interaction; Dipole moment; Molecular structure; Ring puckering vibration; Rotational spectrum; Silacyclobutane; *12932*. **SP305-4.**
- ibrational relaxation; Active nitrogen; Afterglow; Atom recombination; Nitrogen atoms; Quenching; *10321*. **SP305-1.**
- ibrational relaxation; Apparatus; Energy transfer; Metals; Method; Photochemistry; Resonance fluorescence; *13900*. **SP305-6.**
- ibrational relaxation; Carbon monoxide;  $CO_2$  lasers; Combustion; Optical pumping of molecules; *14188*. **SP305-6.**
- ibrational relaxation; Chloroform; Infrared spectra; Molecular reorientation; Raman spectra; *15700*. **SP305-7.**
- ibrational relaxation; Fluorescence; Infrared; Laser; Nitrous oxide; Q-switching; *11858*. **SP305-3.**
- ibrational relaxation electronic quenching; Energy transfer; First positive  $N_2$  bands; Lewis-Rayleigh afterglow; Nitrogen afterglow; Nitrogen atoms; *14007*. **SP305-6.**
- Vibrational resonance; Absorption spectra; Infrared; Methyl chloride; Perturbations; Spectra; *10578*. **SP305-1.**
- Vibrational resonance; Energy levels; ICN; Infrared spectroscopy; Microwave spectroscopy; Molecular structure; *11213*. **SP305-2.**
- Vibrational spectra; Atomic spectra; Electronic spectra; Free radicals; High-temperature species; Matrix isolation; Molecular ions; Reactive molecules; Rotation in matrices; *14222*. **SP305-5.**
- Vibrational spectra; Coriolis constant; Force field; Infrared; Isotopic shift; Ruthenium tetroxide; Vibrational amplitude; *11370*. **SP305-2.**
- Vibrational spectrum; Electronic spectrum; Flash photolysis; Free radicals; Matrix isolation; Molecular orbitals; *11823*. **SP305-3.**
- Vibrational spectrum; Fermi resonance; Infrared spectrum; Microwave spectrum; Rotational constants; Unperturbed vibrational frequencies; *9873*. **SP305-1.**
- Vibrational state; Centrifugal distortion; Chemistry; Disulfur monoxide; Microwave spectra; Structure; *14433*. **SP305-6.**
- Vibrational state; 337-micron CN laser; Laser; Radiation; Rotational level; *9163*. **SP305.**
- Vibrational state populations;  $D_2^+$ ; Experiment;  $H_2^+$ ; Ionization; Photodissociation; *12715*. **SP305-4.**
- Vibrational states; Allene; E vibrational state; Microwave spectrum; Rotational transitions; Stark effect; *11035*. **SP305-2.**
- Vibrational states; Calculations; Electronic states, energies of formation; Energies of motion; Interstitials; Point defects; Theory; Vacancies; *M287*. **SP305.**
- Vibrational states; Collective correlations; Four particle-four hole states; Light nuclei; Quartets; Rotational states; *12146*. **SP305-3.**
- Vibrational states; Heat capacity; Lattice dynamics; Low temperature, polyglycine; Polypeptides; *16304*. **SP305-8.**
- Vibrational transition intensities;  $a^1\Pi$ ; CO; Dipole moment; Excited state; SCF; *15551*. **SP305-7.**
- Vibrational transition probabilities;  $X^1\Pi$ ;  $A^2\Sigma$ ; Electronic transition probabilities; Hartree-Fock; LiO; *J.76A* No. 6, 665-668 (1972). **SP305-4.**
- Vibrational transitions; Einstein coefficients; Line strengths; Meinel bands; Molecular spectra; OH; Radiative lifetimes; Spin uncoupling; Vibration-rotation interaction; *14767*. **SP305-7.**
- Vibrationally energy; Kinetics; Laser enhanced reactions; Nitric oxide;  $O_3(^1\Delta)$ ; Ozone; *14385*. **SP305-6.**
- Vibrationally excited; Chemiluminescence reaction; Emitting state; Enhanced reaction; Infrared laser; Spectral distribution; *14549*. **SP305-6.**
- Vibrationally excited reactant molecules; Carbonyl sulfide; Chemical kinetics; Ethylene; Flash photolysis resonance fluorescence; Infrared laser; Oxygen atoms; *16453*. **SP305-8.**
- Vibration-rotation; Air pollutant; Fundamental vibrational band; High-resolution; Molecular constants; Spin-splittings; *14127*. **SP305-6.**
- Vibration-rotation; Band contours; Force fields; Gas phase; Infrared; Sulphur hexafluoride; Tellurium hexafluoride; Tellurium hexafluoride; *9528*. **SP305-1.**
- Vibration-rotation; Bending vibration; Large amplitude; Quasi-linear; Theory; Triatomic; *14357*. **SP305-6.**
- Vibration-rotation; Coriolis constant; Force field; Infrared; Osmium tetroxide; *9349*. **SP305.**
- Vibration-rotation; Dimethylacetylene; Internal rotation; Rotational constants; Spectrum; *12170*. **SP305-3.**
- Vibration-rotation;  $\zeta_5$ ;  $\zeta_4$ ; Band contours;  $BF_3$ ; Coriolis force; Force fields; High resolution; Infrared;  $\nu_2$ ; *9268*. **SP305.**
- Vibration-rotation Hamiltonian; Angular momentum; Bimolecular complex; Collisions; Group theory; Molecule-fixed axes; Selection rules; *13080*. **SP305-5.**

Vibration-rotation: Hamiltonian; Double-minimum potentials; Large-amplitude vibrations; Linear molecules; Rotational constants; Triatomic molecules; *13146. SP305-5.*

Vibration-rotation interaction; Alkali hydroxides; Anharmonicity; Force constants; Microwave spectrum; Molecular structure; *11045. SP305-2.*

Vibration-rotation interaction; Dipole moment; Molecular structure; Ring puckering vibration; Rotational spectrum; Silacyclobutane; Vibrational potential functions; *12932. SP305-4.*

Vibration-rotation interaction; Vibrational transitions; Einstein coefficients; Line strengths; Meinel bands; Molecular spectra; OH; Radiative lifetimes; Spin uncoupling; *14767. SP305-7.*

Vibration-rotation interaction constants; Equilibrium structure; Ground state constants; Infrared spectrum; Nitrogen dioxide,  $2\nu_1$  band; Nitrogen dioxide,  $\nu_2$  band; Upper state constants; *15694. SP305-7.*

Vibration-rotation interactions; Anharmonic constants; Fermi resonance; Linear molecules; Vibrational potential function; *11548. SP305-2.*

Vibrations; Buildings; Climatology; Seismic loads; Structural engineering; Wind loads; *B5530*, pp. 129-131. **SP305-3.**

Vibrations of square bars; Longitudinal modes; Theory of symmetric deformations of plates; Thickness-shear modes; Thickness-stretch modes; Variational equations frequency as wave numbers; *10753. SP305-1.*

Vibratory apparatus; Adhesion; Cavitation; Coatings; Design charts; Elastomers; Erosion; Hopkinson pressure bar apparatus; Impedances; Mismatching; Stress wave interactions; Substrates; Tearing; *SP452*, pp. 120-123 (Sept. 1976). **SP305-8.**

Vibronic structure; Borazine; Gas phase; Matrix isolation; Photochemistry; Spectra; Vacuum ultraviolet; *12459. SP305-4.*

Vibronic transition; Carbon-K-absorption threshold; First Rydberg transition;  $\text{La}^{-1}$  hole state calculation; Methane; *13913. SP305-6.*

Vicat; Autoclave soundness; Hydraulic cement; Normal consistency; Tensile strength; Time of setting; *10907. SP305-2.*

Vickers hardness number; Vickers hardness tester; Brinell hardness number; Dental casting; Gold alloy; Indentation; Rockwell superficial hardness tester; *13304. SP305-5.*

Vickers hardness tester; Brinell hardness number; Dental casting; Gold alloy; Indentation; Rockwell superficial hardness tester; Vickers hardness number; *13304. SP305-5.*

Victims; Apparel; Apparel fires; Burn injury; Defensive capability; FFACTS; Fire; Flammable fabrics; Garment fires; Garment parameters; Injury severity; Reaction patterns; *15438. SP305-7.*

Victim's activity; Victim's reactions; Accident patterns; Apparel; Apparel fires; Burn injury; FFACTS; Fire; Flammable fabrics; Flammable liquids; Garment fires; Garment parameters; Injury severity; *SP411*, pp. 20-29. **SP305-6.**

Victim's activity; Victim's reactions; Accident patterns; Apparel; Apparel fires; Burn injury; FFACTS; Fire; Flammable fabrics; Flammable liquids; Garment fires; Garment parameters; Injury severity; *TN867. SP305-7.*

Victim's activity; Victim's reactions; Accident patterns; Apparel; Apparel fires; Burn injury; FFACTS; Fire; Flammable fabrics; Flammable liquids; Garment fires; Garment parameters; Injury severity; *NBSIR 73-145. SP305-7.*

Victim's reactions; Accident patterns; Apparel; Apparel fires; Burn injury; FFACTS; Fire; Flammable fabrics; Flammable liquids; Garment fires; Garment parameters; Injury severity; Victim's activity; *15229. SP305-7.*

Victim's reactions; Accident patterns; Apparel; Apparel fire; Burn injury; FFACTS; Fire; Flammable fabrics; Flammable liquids; Garment fires; Garment parameters; Injury severity; Victim's activity; *TN867. SP305-7.*

Victim's reactions; Accident patterns; Apparel; Apparel fire; Burn injury; FFACTS; Fire; Flammable fabrics; Garment fires; Garment parameters; Injury severity; Victim's activity; *NBSIR 73-145. SP305-7.*

Video tape; Warning lights; Weights and measures; Auto paint; Chlorine monitor; Color measurements; Color use; Postdoctoral appointments; Retroreflectors; Semiconductor technology; Thermocouple data; *DIM/NBS 58*, No. 9, 193-21 (1974). **SP305-6.**

Video tape recording; Closed circuit television; Court proceedings; Court security; Trial proceedings; *16180. SP305-8.*

View; Windowless; Windows; Daylight; Fenestration; Psychological; Solar glass; Spaciousness; Sunshine; *B5570. SP305-7.*

Viewing angle; Emission anisotropy; Fluorescence; Fluorescence quantum yield; Fluorescence standard; Fluorimetry; Polarization; Spectrofluorimetry; *J79A No. 1-15 (1975). SP305-7.*

Viewing angle; Emission anisotropy; Fluorescence; Fluorescence decay; Fluorescence quantum yields; Polarization; Spectrofluorimetry; *15754. SP305-8.*

Vinyl acetate-dibutyl maleate; Vinyl acetate-ethylene; Vinyl acetate-ethyl acrylate; Vinyl acetate-2-ethyl-hexyl acrylate; Vinyl chloride-acrylate; Acrylic; Alkyd modified latex paints; Deep-tone latex paints; Infrared spectroscopy; Polyvinyl acetate; Styrene-acrylate; *13816. SP305-6.*

Vinyl acetate-ethyl acrylate; Vinyl acetate-2-ethyl-hexyl acrylate; Vinyl chloride-acrylate; Acrylic; Alkyd modified latex paints; Deep-tone latex paints; Infrared spectroscopy; Polyvinyl acetate; Styrene-acrylate; Vinyl-acrylic; Vinyl acetate-dibutyl maleate; *13816. SP305-6.*

Vinyl acetate-ethylene; Vinyl acetate-ethyl acrylate; Vinyl acetate-2-ethyl-hexyl acrylate; Vinyl chloride-acrylate; Acrylic; Alkyd modified latex paints; Deep-tone latex paints; Infrared spectroscopy; Polyvinyl acetate; Styrene-acrylate; Vinyl-acrylic; *13816. SP305-6.*

Vinyl acetate-2-ethyl-hexyl acrylate; Vinyl chloride-acrylate; Acrylic; Alkyd modified latex paints; Deep-tone latex paints; Infrared spectroscopy; Polyvinyl acetate; Styrene-acrylate; Vinyl-acrylic; Vinyl acetate-dibutyl maleate; Vinyl acetate-ethylene; *13816. SP305-6.*

Vinyl and vinylidene; Fluoride polymers; Gamma irradiation; Ionization, gamma; Polymers; Quantitative comparisons; *10119. SP305-1.*

Vinyl chloride; Detector; Laser; Pollution; *15027. SP305-7.*

Vinyl chloride; Vinyl radical; Gas phase; Photolysis; Quantum yield; Radiolysis; *J77A No. 2, 243-248 (1973). SP305-5.*

Vinyl chloride-acrylate; Acrylic; Alkyd modified latex paints; Deep-tone latex paints; Infrared spectroscopy; Polyvinyl acetate; Styrene-acrylate; Vinyl-acrylic; Vinyl acetate-dibutyl maleate; Vinyl acetate-ethyl acrylate; *13816. SP305-6.*

Vinyl ethers; Fluorinated styrenes; Fluoroaryl polymers; Para and meta linked polymers; Pendant pentafluorophenyl ring; Polyperfluorophenylene ethers; Polyperfluorophenylenes; Sulfoxides; *9999. SP305-1.*



- nyl halides; Ion-molecule reactions; Mass spectrometry; Photoionization; Rate constants; Reaction mechanisms; 14844. **SP305-7.**
- nyl radical; Gas phase; Photolysis; Quantum yield; Radiolysis; Vinyl chloride; *J.77A No. 2, 243-248 (1973).* **SP305-5.**
- nyl resins; X-ray detectors; Dosimetry; Dyes; Gels; Microdosimetry; Plastics; Radiochromism; Triphenylmethane dyes; 14659. **SP305-6.**
- nyl toluene-acrylate; Vinyl toluene-butadiene; Absorbance ratio method; Infrared spectroscopy; Resins; Styrene-butadiene; Surface fillers; 12417. **SP305-4.**
- nyl toluene-butadiene; Absorbance ratio method; Infrared spectroscopy; Resins; Styrene-butadiene; Surface fillers; Vinyl toluene-acrylate; 12417. **SP305-4.**
- nyl-acrylic; Acrylic; Identification; Infrared spectroscopy; Latex paints; Polyvinyl acetate; Separation; Styrene-butadiene; 10415. **SP305-1.**
- nyl-acrylic; Vinyl acetate-dibutyl maleate; Vinyl acetate-ethylene; Vinyl acetate-ethyl acrylate; Vinyl acetate-2-ethylhexyl acrylate; Vinyl chloride-acrylate; Acrylic; Alkyd modified latex paints; Deep-tone latex paints; Infrared spectroscopy; Polyvinyl acetate; 13816. **SP305-6.**
- nylamine; Dipole moment; Ethylamine; Pyrolysis reactions; Rotational spectrum; Structure; 12528. **SP305-7.**
- nyl CO; Adsorption; Carbon monoxide; Chemisorption; Desorption; Photoelectron spectroscopy; Photoemission; Single crystal; Tungsten; Ultraviolet photoelectron spectroscopy; 15851. **SP305-8.**
- nyl states;  $\alpha$  states;  $\beta$  states; Adsorption; Carbon; Carbon monoxide; Chemical bonding; Chemisorption; Density dependent transitions; Desorption; Dissociative adsorption; Electronic states; Hydrogen; Monolayers; Nitrogen; Oxygen; Photoelectron spectra; 16419. **SP305-8.**
- nyl coefficient; Argon; Compressibility factor; Enthalpy; Entropy; Equation of state; Internal energy; Joule-Thomson coefficient; *P-V-T*; Specific heat; Vapor pressure; *NSRDS-NBS27*. **SP305-1.**
- nyl coefficient; Concentration dependence; Linear polyethylene; Membrane; Number average molecular weight; Osmometer; Osmotic pressure; *J.76A No. 2, 161-163 (1972).* **SP305-4.**
- nyl coefficient; Critically evaluated data; Critical point; Enthalpy; Entropy; Equation of state; Helium; Internal energy; Joule-Thomson coefficient; Lambda line; Melting line; *P-V-T*; *J. Phys. Chem. Ref. Data 2, No. 4, 923-1042 (1973).* **SP305-6.**
- nyl coefficients; Atoms; Compressibility; Heat of sublimation; Molecules; Potential functions; Empirical and semi-empirical; Transport properties; *TN246*. **SP305.**
- nyl coefficients; Clapeyron equation; Saturation vapor pressure over water; Steam; Vapor pressure; Vapor pressure of water; *J. Res. 80A Nos. 5 and 6, 775-785 (1976).* **SP305-8.**
- nyl coefficients; Clausius-Clapeyron equation; Saturation vapor pressure over water; Vapor pressure; Vapor pressure of water; Water vapor; Steam; *J.75A No. 3, 213-230 (1971).* **SP305-3.**
- nyl coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; Saturation densities; Specific heats; Vapor pressure; Velocity of sound; *TN392. (Revised September 1973).* **SP305-5.**
- nyl coefficients; Density; Enthalpy; Entropy; Fixed points (PVT); Fluorine; Joule-Thomson; Latent heat; Melting curve; PVT measurements; Saturation densities; Specific heats; Vapor pressure; Velocity of sound; *TN392*. **SP305-2.**
- nyl coefficients; Density expansion; Gas thermometry; Power series coefficients; PVT; Statistical analysis; 10601. **SP305-1.**
- nyl coefficients; Enhancement factor; Equation of state; Interaction virial coefficients; Moist air; Saturated air; Second virial coefficients; *J.79A No. 4, 551-560 (1975).* **SP305-7.**
- Virial coefficients; Melting pressures; Methane; Thermophysical properties; Vapor pressures; *J.74A No. 5, 655-660 (1970).* **SP305-2.**
- Virial coefficients; Water vapor; Interaction virial coefficients; Moist air; Second virial coefficient; *J.77A No. 1, 133-147 (1973).* **SP305-5.**
- Virial coefficients; Water vapor-air mixtures; Chemical association; Lennard-Jones potential parameters; *J.71A3-454, 219-224 (1967).* **SP305.**
- Virial coefficients; Water vapor-air mixtures; Chemical association; Lennard-Jones potential parameters; Third interaction virial coefficients; *J.79A No. 6, 775-776 (1975).* **SP305-7.**
- Virial equation; Nonpolar gases; Quantum gases; Third virial coefficients; 10329. **SP305-1.**
- Virtual crystal approximation; Coherent potential approximation; Electronic density of states; Friedel screening theory; Photoemission; Silver-gold alloys (AgAu); Silver-indium alloys (AgIn); Silver-palladium alloys (AgPd); *SP323, pp. 551-554.* **SP305-4.**
- Virtual dislocations; Boundary dislocations; Glide propagation; Grain boundaries; *SP317, pp. 531-545.* **SP305-3.**
- Virtual photons;  $^4\text{He}$  photodisintegration; E-2 angular distributions; Electric-quadrupole transition; Identical particles; 12878. **SP305-4.**
- Virus; Chromatography; Glass; Kilham rat virus; MS2 virus; Porous glass; 10358. **SP305-1.**
- Viscoelastic; Amalgam; Creep; Dental; Steady-state creep; Stress-strain; Transient creep; *J.72C No. 3, 203-213 (1968).* **SP305-1.**
- Viscoelastic damping; Dynamic force; Load cell; 12050. **SP305-3.**
- Viscoelastic methods; Amalgam, dental; Creep; Dental materials; Denture base resins; Indentation test method; Mechanical properties, dental materials; Rocking beam oscillator; Stress relaxation; Torsion pendulum; *SP354, pp. 127-144.* **SP305-4.**
- Viscoelasticity; Anisotropy; BKZ fluid; Composite material; Continuum mechanics; Hyperelasticity; Isothermal; Non-linear; Variational principle; 13355. **SP305-5.**
- Viscoelasticity; Bead-spring model; Block copolymers; Concentrated solutions; Dynamics; Rouse theory; Solution properties; 15590. **SP305-7.**
- Viscoelasticity; BKZ theory; Biaxial strain; Constant rate of strain; Creep; Elastic fluid; Elastic strain energy function; Finite strain; Non-linear behavior; Non-Newtonian fluids; Normal stresses; Pure shear; Simple extension; Simple shear; 9583. **SP305-1.**
- Viscoelasticity; Ceramics; Elasticity; Fracture; Inelastic deformation; Melting point; Standards; Thermal conductivity; Thermal expansion; Thermal radiation; *SP303*. **SP305-1.**
- Viscoelasticity; Constitutive equation; Continuum mechanics; Elasticity; Isotropy; Material symmetry; Mechanical properties; Rheology; Scalar-potential; Strain-energy; Thermodynamics; 14689. **SP305-6.**
- Viscoelasticity; Creep; Dissipation; Elevated temperature; Energy; Hold-time; Hysteresis; Low-cycle fatigue; Plasticity; Stainless steel; Stress relaxation; Thermodynamics; 16004. **SP305-8.**
- Viscoelasticity; High-speed photography; Impact testing; Natural rubber; Strain waves; 10433. **SP305-1.**
- Viscoelasticity; Normal stresses; Rheology; Rheometer; *J.74C Nos. 1 and 2, 18-19 (1970).* **SP305-2.**
- Viscoelasticity; Yield point; Biaxial; Fatigue; Fracture; Laboratory automation; Mechanical testing; Plasticity; Polyvinyl chloride; Servo-hydraulic system; 16626. **SP305-8.**
- Viscoelasticity; Yielding; Anisotropy; Continuum mechanics; Entaxy; Entropy; Irreversibility; Non-equilibrium state; Non-linear theory; Plasticity; Thermodynamics; 12948. **SP305-4.**
- Viscoelasticity; Zimm theory; Bead-spring model; Chain molecules; Chain stiffness; Deoxyribonucleic acid; Dilute

- solutions; Hydrodynamic interaction; Polystyrene; *15114*. SP305-7.
- Viscoelasticity; Zimm theory; Bead-spring model; Block-copolymers; Dilute solutions; Dynamics; Limiting viscosity number; Solution properties; *15373*. SP305-7.
- Viscoelasticity, linear and nonlinear; Angle-ply laminates; Boron/epoxy; Composite materials; Creep; *15626*. SP305-7.
- Viscometer; 1-chloronaphthalene; 1,2,4-trichlorobenzene; Decalin; Limiting viscosity number; Linear polyethylene; Solution viscosity; *176A No. 2, 147-149* (1972). SP305-4.
- Viscosities; Dielectric constants; Methane, specific heats; Thermal conductivities; Thermodynamic functions; *13049*. SP305-4.
- Viscosity; Absolute measurement; Calibration; Standard; Torsional pendulum; *J.75A No. 6, 541-551* (1971). SP305-3.
- Viscosity; Absorption; Acoustic propagation; Fluids; Kirchhoff-Langevin; Navier-Stokes; Stability; Thermal conductivity; *11694*. SP305-2.
- Viscosity; Acoustics; Fluid mechanics; Force; Gravity; Humidity; Pressure; Strain; Vacuum; Vibration; *SP300. Volume 8*. SP305-4.
- Viscosity; Activation energy; Annealing; Germanium glass; Index of refraction; Relaxation times; Thermal expansion; Two relaxation model; *J.72A No. 4, 425-433* (1968). SP305-1.
- Viscosity; Activation energy; Arrhenius behavior;  $B_2O_3$  glass; Configuration entropy; Distribution of relaxation times; Free volume; Fulcher equation; *11063*. SP305-2.
- Viscosity; Application temperature; Asphalt; Built-up roofing; Interply thickness; Roofing membranes; *B5592*. SP305-8.
- Viscosity; Argon; Barker-Henderson perturbation theory; Modified Enskog theory; Thermal conductivity; Transport properties; *14775*. SP305-7.
- Viscosity; Argon; Compressed gas and liquid; Dilute gas; Saturated liquid; Torsional crystal viscometer; *13842*. SP305-6.
- Viscosity; Argon; Dense gases; Helium; Nitrogen; Transport properties; *12540*. SP305-4.
- Viscosity; Binary liquids; Critical phenomena; Dense gases; Phase transitions; Thermal conductivity; Transport properties; *13134*. SP305-5.
- Viscosity; BKZ fluid; Nonlinear behavior; Polyisobutylene; Stress relaxation; *J.75A No. 1, 33-40* (1971). SP305-3.
- Viscosity; Boltzmann gas; Cross-section for viscosity; Hard sphere gas; Quantum corrections; Statistical mechanics; *12303*. SP305-3.
- Viscosity; Borosilicate; Environmental-relaxation model; Glass; Microstructure; Phase-separation; *14410*. SP305-6.
- Viscosity; Calibration standards; Concentration validity; Flash point; Lubricating oil; Pour point; Spectrometric analysis; Stability; Trace elements; *TN751*. SP305-5.
- Viscosity; Carbon dioxide; Diffusion; Dispersion coefficients; Methane;  $m-6-8$  potential; Nitrogen; Oxygen; Rare gases; Thermal conductivity; Thermal diffusion; *12862*. SP305-4.
- Viscosity; Chlorides; Data compilation; Density; Electrical conductance; Molten salt mixtures; Standard reference data; Surface tension; *J. Phys. Chem. Ref. Data 4, No. 4, 871-1178* (1975). SP305-7.
- Viscosity; Coal slags; MHD; Thermionic emission; Vaporization; *15449*. SP305-7.
- Viscosity; Collision integrals; Diffusion; Potential; Thermal conductivity; Thermal diffusion; Transport properties; *J.72A No. 4, 359-424* (1968). SP305-1.
- Viscosity; Collision integrals; Diffusion; Potential; Thermal conductivity; Thermal diffusion; Transport properties; *NSRDS-NBS47*. SP305-6.
- Viscosity; Collision integrals; Hard spheres; Thermodynamic conductivity transport properties; Triple collisions; *12728*. SP305-4.
- Viscosity; Comparisons; Graph; Methane; Saturated liquid; Table; Torsional crystal; *14234*. SP305-6.
- Viscosity; Composition; Fulcher equation; Glasses; Soda-lime glasses; *J.78A No. 4, 497-504* (1974). SP305-6.
- Viscosity; Compressed gases; Thermal conductivity; Transport properties; *11119*. SP305-2.
- Viscosity; Correlation; Density dependence; Kinetic theory; Least squares analysis; Logarithmic expansion; Thermal conductivity; *10972*. SP305-2.
- Viscosity; Correlation length; Ginzburg-Landau theory; Globular protein; Inhomogeneous system; Subcritical region; *16258*. SP305-8.
- Viscosity; Corresponding states; Enskog theory; Helium-4; Kinetic theory; Quantum fluid; Thermal conductivity; *10972*. SP305-2.
- Viscosity; Critical phenomena; Immiscibility; Oxide glass; *12294*. SP305-3.
- Viscosity; Critically evaluated data; Fluorine; Kinetic theory; Modified Enskog theory; Thermal conductivity; *J. Phys. Chem. Ref. Data 1, No. 4, 1101-1114* (1972). SP305-6.
- Viscosity; Data compilation; Density; Electrical conductance; Molten salts; Standard reference data; *NSRDS-NBS*. SP305-1.
- Viscosity; Data compilation; Density; Electrical conductance; Molten salt mixtures; Nitrates; Nitrites; Standard reference data; Surface tension; *J. Phys. Chem. Ref. Data 1, No. 5, 581-746* (1972). SP305-6.
- Viscosity; Data compilation; Density; Electrical conductance; Fluorides; Molten salt mixtures; Standard reference data; Surface tension; *J. Phys. Chem. Ref. Data 3, No. 1, 1-1* (1974). SP305-6.
- Viscosity; Dense gases; Diffusion; Rigid disks; Rigid sphere; Thermal conductivity; Transport properties; Triple collisions; *10709*. SP305-1.
- Viscosity; Dense gases; Rigid disks; Rigid spheres; Thermal conductivity; Transport coefficients; Triple collisions; *939*. SP305.
- Viscosity; Dense gases; Rigid spheres; Thermal conductivity; Transport properties; Triple collisions; *9400*. SP305.
- Viscosity; Density; Entropy; Free volume; Glasses; Glass transition; Liquid; Polymer; Poly(vinyl acetate); PVT; Relaxation; *14777*. SP305-7.
- Viscosity; Density dependence; Liquid state; Simple fluid; Temperature dependence; Thermal conductivity; Transport properties; *11879*. SP305-3.
- Viscosity; Diffusion; Electrical conductivity; Magnetohydrodynamics (MHD); Phase equilibria; Transport properties; Vaporization; *16321*. SP305-8.
- Viscosity; Dilute gas; Dilute limit; Low pressure; Mean-free path; Transport properties; Validity range; *10520*. SP305-1.
- Viscosity; Discrepancy; Experimental analysis; *12806*. SP305-4.
- Viscosity; Dissociation; Hydrogen; Intermolecular potential functions; Kinetic theory; Quantum gas; Thermal conductivity; *J.74A No. 3, 331-353* (1970). SP305-2.
- Viscosity; Electrical conductivity; MHD materials; Phase equilibrium; Slag; Vaporization; *15510*. SP305-7.
- Viscosity; Electron damage; Electron energy; Electron spin resonance; Evaluation; Gel; Mechanical properties; Optical properties; Plastic films; Poly(ethylene terephthalate); Proton damage; Proton energy; Radiation effect; *SP336*, pp. 323-344. SP305-3.
- Viscosity; Experimental; Fluorine; Gas; Graphs; Liquid; Tables; Torsional crystal; *14757*. SP305-7.
- Viscosity; Gas; Intermolecular potential; Potential function; Scattering; Second virial; *12162*. SP305-3.
- Viscosity; Glass; Microstructure; Phase separation; *TN792*. SP305-5.
- Viscosity; Glass; Microstructure; Phase separation; *14494*. SP305-6.
- Viscosity; Glasses; Liquid viscosities; Molten glasses; Ultrasonic relaxation; *10673*. SP305-1.
- Viscosity; Handbook article; Liquids; *15461*. SP305-7.

- viscosity; Heat capacity; Solution critical point; Van der Waals mixtures; 9671. SP305-1.
- viscosity; Microstructure; Phase separation; 14480. SP305-6.
- viscosity; Uncertainty of viscosity measurements; Absolute measurement of viscosity; Accuracy of viscosity measurement; Calibration of viscometers; *J.75A No. 6, 535-540 (1971). SP305-3.*
- viscosity; Viscosity standard; Beam bending; Fiber elongation; Glass; Glass standard; Glass viscosity; Lead-silica glass; Restrained sphere; Rotating cylinders; Standard; Standard reference material; *M260-11. SP305.*
- viscosity; Viscosity standard; Beam-bending; Fiber-elongation; Fulcher equation; Glass viscosity; Standard reference material; *J.78A No. 3, 323-329 (1974). SP305-6.*
- viscosity; Viscosity standard; Beam-bending; Borosilicate glass; Glass viscosity; Parallel-plate; Rotating cylinder; Standard reference material; *SP260-23. SP305-2.*
- viscosity; Viscosity-drift; Glass; Immiscibility; Phase-separation; 12238. SP305-3.
- viscosity; Viscous flow; Absolute measurement; Calculation of bounds; Calibration; Poiseuille flow; Standard; *J.75A No. 6, 553-560 (1971). SP305-3.*
- viscosity; Vitreous state; Calorimetry; Configurational entropy; Glass; Heat capacity; *o*-terphenyl; Residual entropy; 12520. SP305-4.
- viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; Lambda line; Latent heat; Melting point; Prandtl number; *TN631. SP305-5.*
- viscosity; Acoustical thermometer; Calibrator; Germanium thermometers; Heat conduction; NBS P2-20 (1965) scale; "Speed of sound" isotherms; *TN765. SP305-5.*
- viscosity; Agitators; Borosilicate glass; Glass melt; Glass tank; Liquids; Stirrer; *TN771. SP305-5.*
- viscosity; Computer programs; Density; Enthalpy; Entropy; Heat capacity at constant pressure; Heat capacity at constant volume; Heat capacity ratio; Heat transfer coefficient; Hydrogen; Pressure; Saturation boundary; Temperature; Thermal conductivity; *TN625. SP305-5.*
- viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Hydrogen; Index of refraction; Joule-Thomson; Latent heat; Melting point; Prandtl number; Specific heat; *TN617. SP305-4.*
- viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; Lambda line; Latent heat; Melting point; Prandtl number; *TN622. SP305-4.*
- viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; Prandtl number; Oxygen; Specific heat; *TN384. SP305-3.*
- viscosity; Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; Nitrogen; Prandtl number; Specific heat; Speed of sound; Surface tension; *TN648. SP305-6.*
- viscosity; Weight average molecular weight; Z average molecular weight; Density; Differential refractive index; Gel permeation chromatography (GPC); Light scattering; Linear polyethylene; Melt flow rate; Molecular weight distribution; *SP260-42. SP305-4.*
- viscosity; 1-chloronaphthalene; 1,2,4-trichlorobenzene; Fractionation; Limiting viscosity number; Linear polyethylene; Mark-Houwink; Molecular weight; Stockmayer-Fixman; Unperturbed dimensions; 14054. SP305-6.
- viscosity anomaly; Anomaly in oxide mixtures; Oxide mixtures; 11929. SP305-3.
- viscosity coefficient; Argon; Correlated molecular collisions; Density expansions; Fluorine; Oxygen; Statistical analysis; 15141. SP305-7.
- viscosity coefficient; Carbon dioxide; Clausius-Mossotti function; Intermolecular forces; *m*-6-8 potential quadrupolar gas; Second virial coefficient; 15521. SP305-7.
- viscosity coefficient; Correlation; Critical point; Equation of state; Methane; Thermal conductivity; Thermal conductivity coefficient; 15184. SP305-7.
- viscosity coefficient; Critically evaluated data; Dilute polyatomic gas; Kinetic theory of polyatomic molecules; *m*-6-8 potential; Nitrogen; Nonspherical interactions; Oxygen; Second virial coefficient; *J. Phys. Chem. Ref. Data 2, No. 4, 735-756 (1973). SP305-6.*
- viscosity coefficient; Dilute gas; Kinetic theory; *m*-6-8 potential function; Rare gases; Thermal conductivity coefficient; *J. Phys. Chem. Ref. Data 2, No. 3, 619-642 (1973). SP305-6.*
- viscosity coefficient; Nonspherical interactions; Polarizability; *M*-6-8 potential; Quadrupole moment; Second virial coefficients; 13229. SP305-5.
- viscosity coefficient; Xenon; Argon; Correlation; Critical data evaluation; Critical point; Dense gas and liquid; Excess transport property functions; Krypton; Nitrogen; Oxygen; Tables; *J. Phys. Chem. Ref. Data 3, No. 4, 979-1018 (1974). SP305-6.*
- viscosity coefficients; Argon; Cross sections; Potential functions; Second virial coefficient; 13138. SP305-5.
- viscosity gauge; Capacitance-diaphragm gauge; Knudsen radiometer; McLeod gauge; Micromanometry; Quartz Bourdon gauge; Static expansion; Thermal transpiration; Vapor-stream pumping; 14933. SP305-7.
- viscosity (MHD); Coal slag; Electrical conductivity (MHD); Electrodes; Insulators; MHD; MHD materials; MHD materials testing; Phase equilibria (MHD); Vaporization (MHD); *NBSIR 74-543. SP305-6.*
- viscosity of parahydrogen; Liquid normal hydrogen; Parahydrogen; Shear viscosity; Temperature dependence; 9201. SP305.
- viscosity sensor; Capillary tubes; Density sensor; Flow nozzle; Laminar flow; Liquid properties; *NBSIR 74-620. SP305-7.*
- viscosity standard; Beam bending; Fiber elongation; Glass; Glass standard; Glass viscosity; Lead-silica glass; Restrained sphere; Rotating cylinders; Standard; Standard reference material; Viscosity; *M260-11. SP305.*
- viscosity standard; Beam-bending; Borosilicate glass; Glass viscosity; Parallel-plate; Rotating cylinder; Standard reference material; Viscosity; *SP260-23. SP305-2.*
- viscosity standard; Beam-bending; Fiber-elongation; Fulcher equation; Glass viscosity; Standard reference material; Viscosity; *J.78A No. 3, 323-329 (1974). SP305-6.*
- viscosity-drift; Glass; Immiscibility; Phase-separation; Viscosity; 12238. SP305-3.
- viscous flow; Absolute measurement; Calculation of bounds; Calibration; Poiseuille flow; Standard; Viscosity; *J.75A No. 6, 553-560 (1971). SP305-3.*
- viscous flow; Continuous systems; Diffusion flow; Discontinuous systems; Membranes; Nonequilibrium thermodynamics; Porous media; Thermal transpiration; Transport phenomena; 10362. SP305-1.
- viscous flow; Critical point theories; Immiscibility; Phase transitions; Structural relaxation; Transport phenomena; *J.75A No. 3, 175-184 (1971). SP305-3.*
- viscous flow; Volumetric flow; Accuracy; Calibration; Compressible flow; Differential meter and effects; Fluid meter; Incompressible flow; Laminar flow; Mach number; Reynolds number; 9535. SP305-1.

- Viscous flow; Weber's equation; Boundary-value problem; Eigenvalues; Parabolic cylinder functions; Resonance; Rotating disks; Singular perturbations; Turning-point; 16459. **SP305-8.**
- Viscous relaxation;  $B_2O_3$ ; Shear spectra of relaxation times; Ultrasonic relaxation; 10497. **SP305-1.**
- Viscous relaxation; Immiscibility; Oxide glasses; Relaxation times; Supercritical fluctuations; Ultrasonic spectroscopy; 11986. **SP305-3.**
- Visibility; Alphanumeric characters; Displays; Handbook; Human factors; Legibility; Psychology; Readability; Standards; Symbols; Type faces; Typography; M262-2. **SP305.**
- Visibility; Building materials; Fire; Fire services; Smoke; Smoke density chamber; Smoke potential; Test method; TN757. **SP305-5.**
- Visibility; Vision; Color; Contrast; Detection; Tritanopia; 13681. **SP305-5.**
- Visibility; Vision; Gratings; Illuminating engineering; Lighting; Modulation transfer function; Suprathreshold visibility; 16008. **SP305-8.**
- Visibility; Vision; Gratings; Illuminating engineering; Lighting; Modulation transfer function; Suprathreshold visibility; BS582. **SP305-8.**
- Visible; Averaging sphere; Deuterium arc lamp; Fluorescent wavelength converter; Grating; Spectrophotometry; Standard reference materials; Ultraviolet; UV achromats; J.78A No. 5, 631-636 (1974). **SP305-6.**
- Visible; Averaging sphere; Diffusing effectiveness; Efficiency; Fluorescent wavelength converter; Photometry; Spectrophotometry; Ultraviolet; 16333. **SP305-8.**
- Visible; Charge transfer; Lasers; Sputtering; 16497. **SP305-8.**
- Visible; Complex dielectric constant; Electron-energy-loss; Electronic band structure; Infrared; Least-squares fit to optical data; Optical constants; Reflectance; Ultraviolet; 11555. **SP305-2.**
- Visible; Infrared; Mercurous chloride; Polarizer material; NBSIR 74-507. **SP305-8.**
- Visible absorption spectra; 4-oxo-4H-benz(de) anthracene-7,8-dicarboxylic anhydride; Absorption spectra; Air pollutants; Anthraquinone-1,5-dicarboxylic acid; Dihydroxyperylenequinones; Infrared; J.72A No. 1, 39-47 (1968). **SP305-1.**
- Visible emission; Energy transfer; Infrared emission; Lattice phonons; Photoluminescence; Strontium titanate; 10965. **SP305-2.**
- Visible molecular absorption; Dye laser; Intra-cavity absorption; Iodine detection; Laser quenching; Trace absorption detection; 13861. **SP305-6.**
- Visible radiation; Hot electrons; Silicon diodes; 9458. **SP305.**
- Visible radiation; Lasers; Radiation; Radio frequencies; Radio frequency measurements; Radio metrology; 9567. **SP305-1.**
- Visible-ultraviolet spectrum; F atom reactions; Force constants; HNF; HNF<sub>2</sub>; Infrared spectrum; Matrix isolation; NF; NF<sub>2</sub>; Thermodynamic properties; 9335. **SP305.**
- Vision; Absorption; Adaptation; Beer's law; Chromatic adaptation; Color vision; Concentration; Cones; Curve shape; High luminance; Metameric matches; Pigment; Photopigment; J.72A No. 4, 309-340 (1968). **SP305-1.**
- Vision; Achromatic; Appearance; Brightness; Chromatic adaptation; Chromaticity; Color; Least squares; Luminance; Model; Neutral; Perception; 11813. **SP305-3.**
- Vision; Adaptation; Color; Hue; 11529. **SP305-2.**
- Vision; Bibliography; Color; Color codes; Colorimetry; Color measurement; Spectrophotometry; SP393. **SP305-6.**
- Vision; Chromaticity; Color; Perception; Protanopia; Tritanopia; J.74A No. 1, 23-30 (1970). **SP305-2.**
- Vision; Color; Colorimetry; 9818. **SP305-1.**
- Vision; Color; Contrast; Detection; Tritanopia; Visibility; 13681. **SP305-5.**
- Vision; Color; Lightness; 12994. **SP305-4.**
- Vision; Color; 12725. **SP305-4.**
- Vision; Color discrimination; Signal lights; 11208. **SP305-2.**
- Vision; Gratings; Illuminating engineering; Lighting; Modulation transfer function; Suprathreshold visibility; Visibility; BS582. **SP305-8.**
- Vision; Gratings; Illuminating engineering; Lighting; Modulation transfer function; Suprathreshold visibility; Visibility; BS582. **SP305-8.**
- Vision; Visual acuity; Visual capacities; Nondestructive test Modulation transfer function; NBSIR 76-1142. **SP305-8.**
- Vision; Visual contrast; 14367. **SP305-6.**
- Visual acuity; Visual capacities; Nondestructive testing; Modulation transfer function; Vision; NBSIR 76-1142. **SP305-8.**
- Visual capacities; Nondestructive testing; Modulation transfer function; Vision; Visual acuity; NBSIR 76-1142. **SP305-8.**
- Visual clearance; Crash; Helmet; Impact attenuation; Penetration; Retention system strength; 16287. **SP305-8.**
- Visual clearance; Helmets; Impact attenuation; Penetration; Retention system strength; Riot; 16265. **SP305-8.**
- Visual colorimetry; Color dictionaries; Color vision; Colorimeters; Photoelectric tristimulus; Spectrophotometer colorimetry; Monogr. 104. **SP305-1.**
- Visual contrast; Vision; 14367. **SP305-6.**
- Visual displays; Alphanumeric displays; ASCII code; Cathode ray-tube displays; Control functions; Display terminals; Interactive terminals; Remote computer terminals; Soft copy; Text-editing displays; 14466. **SP305-6.**
- Visual displays; Alphanumeric displays; ASCII Code; Cathode ray-tube displays; Control functions; Display terminals; Interactive terminals; Remote computer terminals; Soft copy; Text editing displays; User control functions; 14652. **SP305-6.**
- Visual environment; Color schemes; Field studies; Glare; Illuminance; Matrix analysis; Multidimensional scaling; Performance criteria; Preference scaling; Scaling; User evaluations; SP361, Vol. 1, pp. 121-129. **SP305-4.**
- Visual obscuration; Aerosol; Combustion; Fire hazard; Pyrolysis; Smoke; Smoke density; 10353. **SP305-1.**
- Visual performance; Visual task; Illumination systems; Light Performance concept; Task contrast; Veiling reflection; SP361, Vol. 1, pp. 483-490. **SP305-4.**
- Visual range; Atmospheric optics; Aviation lighting; Infrared; 9542. **SP305-1.**
- Visual responses; Environmental design; Human factors; Interdisciplinary study; Relative motion; Transportation; Urban design; 11318. **SP305-2.**
- Visual signaling; Colorimetry of signals; Effective intensity; Flashing lights; Legibility of signs; 16003. **SP305-8.**
- Visual task; Illumination systems; Lighting; Performance concept; Task contrast; Veiling reflections; Visual performance; SP361, Vol. 1, pp. 483-490. **SP305-4.**
- Vitreous Gd(PO<sub>3</sub>)<sub>3</sub>; Antiferromagnetism; Comparison of magnetic properties of glasses and crystals; Gd(PO<sub>3</sub>)<sub>3</sub>; Glass; Magnetic order; Polycrystal; 14833. **SP305-7.**
- Vitreous state; Arsenious oxide; Arsenolite; Claudetite; Crystallization; Cubic crystal; Glass; Heat capacity; Monoclinic crystal; Low temperature; Planar molecular structure; Spherical shell molecules; 12311. **SP305-3.**
- Vitreous state; Calorimetry; Configurational entropy; Glass; Heat capacity; o-terphenyl; Residual entropy; Viscosity; 12520. **SP305-4.**
- Vitreous-selenium; Grüneisen's parameter; Linear thermal expansion; 11019. **SP305-2.**
- Vitrolite glass; Blurring effect; Edge loss; Error analysis; Fluorescence; Plastics; Reflectance; Scattering; Spectrophotometry; Translucency; Transmittance; TN594-12. **SP305-8.**
- Vitron theory; Binary borates; Binary silicates; Born glass; Glass; Homogenization of glass melts; Immiscible glass melt; Immiscibility gaps; Silica glass; Structure of glass; J.77A No. 2, 259-272 (1973). **SP305-5.**



- vanite; Anaerobic corrosion; Cathodic depolarization theory; Charles Thom Award; *Desulfovibrio desulfuricans*; Hollow whiskers; Mechanism; Microbial corrosion; Mild steel; Oxidizing agent; Schreibersite; Sulfate-reducing bacteria; 15233. SP305-7.
- Y; Beryllium; Boron; Carbon; Fluorescence yield; Fluorine; K shell; Magnesium; 11950. SP305-3.
- Y; Classical; Collective variables; Eigenfunctions; Eigenvalues; Many-body; Spectrum; Variational; 10145. SP305-1.
- Y; asov equation; Eigenfunction; Landau damping; Non-linear; Numerical solution; Plasma physics; Truncation; 10780. SP305-1.
- Y; asov equation; Electron trapping; Non-linear; Numerical; Selective harmonic excitation; Two-stream; Velocity distribution; 173B No. 4, 293-300 (1969). SP305-1.
- Y; asov equation; Expansion coefficients; Hermite polynomials; Non-linear; Numerical; Plasma; Truncation error; 173B No. 4, 281-291 (1969). SP305-1.
- Y; LB; Coordinate systems; Geodesy; Geodynamics; Lasers; Tectonics; 15801. SP305-8.
- Y; LB; Coordinate systems; Geodesy; Geodynamics; Lasers; Tectonics; 15806. SP305-8.
- Y; LF; Dispersion; Range; Time; 10372. SP305-1.
- Y; LF; HF; Noise; Satellite; Synchronization; Time and frequency dissemination; VHF; TN357. SP305.
- Y; LF; Ionosphere; Phase velocity; 9826. SP305-1.
- Y; LF antenna; Voltage breakdown; Air gap; Electrical breakdown; Insulator flashover; Lightning protection; NBSIR 75-731. SP305-7.
- Y; LF propagation; Analysis of variance; Atomic frequency standard errors; Portable clock; 9585. SP305-1.
- Y; LF propagation; Flicker noise; Meteor burst; Multi-loop servo; Oscillator correction; Time synchronization; 9710. SP305-1.
- Y; LF propagation; Frequency; Portable clocks; Standard frequency broadcasts; Time; Time signals; 10015. SP305-1.
- Y; LF propagation; Worldwide clock synchronization; Multiple VLF transmissions; Portable clock; Standard time broadcasts; 9711. SP305-1.
- Y; LF propagation; WWVL; Effect of mass on frequency; Flicker noise; NBS; Noise correlation; NSS; Optimum filter; Phase noise; Radio propagation; Time comparison; USNO; 11241. SP305-2.
- Y; LF propagation; Zonal harmonics; Diurnal phase; Omega; Time; Time dissemination; TN610. SP305-4.
- Y; LF sudden phase anomalies measurements; Solar x-ray emission measurements; VELA satellite; 10192. SP305-1.
- Y; LF timing; Atomic beams; Atomic clocks; Atomic standards; Atomic time; Clock synchronization; Coordinated U.T. dissemination of frequency and time; Flicker noise; Frequency and time standards; Frequency measurement; Frequency stability; SP300. Volume 5. SP305-4.
- Y; LF timing; Multiple frequency timing; Omega time code; Precise time receiver; Precise timing; Time code receivers; 12531. SP305-4.
- Y; LF timing; Omega; Precision time; Time broadcasts; Time code; 13436. SP305-5.
- Y; MA; Alkaline condensation; Glyoxylic acid; Quaiacol; Synthesis; Vanillyl-mandelic acid; 178A No. 3, 411-412 (1974). SP305-6.
- Y; MA; 'Azobilirubin'; Bilirubin;  $\beta$ -NAD;  $\beta$ -NADH; Cholesterol; Cortisol; D-mannitol; Electron spin resonance; Proton magnetic resonance; Skew conformations; Standard reference materials; Uric acid; TN547. SP305-2.
- Y; MA; Bilirubin; Cholesterol; Cortisol; E.s.r.; D-mannitol; NADH; N.m.r.; Purity; SRM; Standard Reference Materials; TN587. SP305-4.
- Y; Vocabulary; Atom symbols; Bond symbols; Chemical diagrams; Formal grammar; Language; Linguistic analysis; Natural groups; Numerical subscripts; Patterns; Strings; 12673. SP305-4.
- Y; Vocabulary; Computer; Data processing; Definitions; Federal Information Processing Standards Publication; Information processing; Privacy; Security; Terms; FIPS PUB 39. SP305-8.
- Y; Vocabulary; Computer networks; Glossary; Telecommunications; Teleprocessing; Terminology; TN803. SP305-6.
- Y; Vocabulary; Computers; Data processing; Definitions; Federal Information Processing Standards Publication; Information processing; Terms; FIPS PUB. 11. SP305-2.
- Y; Voice encoding; Feasibility; Keyboard alternative; Man-machine interface; Postal sorting; 13393. SP305-5.
- Y; Voice privacy; Intelligibility; LESL; NILECJ; Performance standard; Privacy; Scramblers; Speech quality; Speech scramblers; Survey; Testing; 14714. SP305-6.
- Y; Void growth; Ductile fracture; Plasticity; J76C Nos. 1 and 2, 33-39 (1972). SP305-4.
- Y; Voigt-Reuss-Hill; Debye temperature; Elastic constants; Lattice-vibrational properties; Polycrystal; Single crystal; 13987. SP305-6.
- Y; Volatile chromium compounds; Biological materials; Biological standards; Chromium; Flameless atomic absorption; SP422, pp. 605-610 (Aug. 1976). SP305-8.
- Y; Volatile constituents; Volatilization; Absorption; Adsorption; "bake out"; Components; Decomposition; Degassing; Environment; Evaporation; Outgassing; Simulation; Sublimation; Thermal conduction; Thermal vacuum tests; SP336, pp. 473-485. SP305-3.
- Y; Volatile content; Ash content; Elemental analysis; Homogeneity; Lithium content; Molecular weights; Polymer; Preparation; Purity; Sampling; Standard sample; J71A1-435, 43-47 (1967). SP305.
- Y; Volatile degradation products; Xenon-arc irradiation; Atmospheric exposure; ATR spectroscopy; Clear and pigmented films; Infrared analysis; Internal reflection spectroscopy; Mercury-arc irradiation; Organic coatings; Photodegradation; SP336, pp. 299-312. SP305-3.
- Y; Volatile flammable liquids; Volatile flammable liquids incidents; Accidents; FFACTS; Gasoline; Gasoline containers; Gasoline incidents; Gasoline-related fires; Ignition-causing activities; Ignition sources; TN850. SP305-7.
- Y; Volatile flammable liquids incidents; Accidents; FFACTS; Gasoline; Gasoline containers; Gasoline incidents; Gasoline-related fires; Ignition-causing activities; Ignition sources; Volatile flammable liquids; TN850. SP305-7.
- Y; Volatile metal compounds; Detection; Flameless atomic spectrophotometry; Gas chromatography; Graphite furnace; Methylation of metals; Microbial transformation; Speciation; 16409. SP305-8.
- Y; Volatile products; Absorption; Condensation; Contamination control; Evaluation; Far infrared; Fluid dynamic force; Microorganisms; Optical properties; Planetary quarantine; Polymers; Shock force; Space simulation; Testing; SP336, pp. 51-77. SP305-3.
- Y; Volatilization; Absorption; Adsorption; "bake out"; Components; Decomposition; Degassing; Environment; Evaporation; Outgassing; Simulation; Sublimation; Thermal conduction; Thermal vacuum tests; Volatile constituents; SP336, pp. 473-485. SP305-3.
- Y; Volatilization; Bacteria; Elemental mercury; Flameless atomic absorption spectroscopy; Laser Raman spectroscopy; Nuclear magnetic resonance spectroscopy; Phenylmercuric acetate; 15897. SP305-8.
- Y; Volatilization; High pressure; Initiation rate; Poly-3,3,3-trifluoropropene; Pyrolysis; Random component; Thermal decomposition; 10092. SP305-1.
- Y; Volcanic rocks; Analytical techniques; Fractional crystallization; Geochemistry; Isotope dilution; Partial melting; Rare

- earth elements; Trace element models; *SP422*, pp. 937-949 (Aug. 1976). **SP305-8.**
- Volcanoes; Field observation; Indonesia; Japan; Technical aid; *SP444*, pp. VI-1—VI-15 (Apr. 1976). **SP305-8.**
- Volcanoes; Wind; Bridges; Buildings; Codes; Disaster; Dynamic analysis; Earthquakes; Modeling; Soils; Structural response; *SP444*. **SP305-8.**
- Volt; Voltage measurement; Electrical standards; Standard cells; U.S. legal volt; 16268. **SP305-8.**
- Volt box; Calibration; Console; Electrical; Measurement; Ratio; Standards; Voltage; *J70C3-229*, 173-185 (1966). **SP305.**
- Volt boxes; Calibration console; Console; High measurement accuracies; Human engineering; 9184. **SP305.**
- Volt standard; Electromotive force; Standard cell facilities; Standard cell transfer; Standard cells; 9327. **SP305.**
- Volt standards; Absolute volt; Gibbs' phase rule; History of volt; Legal volt; 10168. **SP305-1.**
- Volt transfer; Gyromagnetic ratio of the proton; Fine structure constant; 14928. **SP305-7.**
- Voltage; Admittance; Automated precision measurements; Correlator; Current; Impedance; Microwave circuit parameters; Microwave measurements; Phase angle; Power; Ratio; Reflection coefficient; Reflectometer; Self-calibration; Six-ports; Vector voltmeter; *TN673*. **SP305-7.**
- Voltage; Admittance; Current; Directional coupler; Hybrid junction; Impedance; Phase angle; Reflection coefficient; Six-port coupler; 14378. **SP305-6.**
- Voltage; Admittance; Current; Impedance; Phase angles; Power; Reflection coefficient; Six-port; 15800. **SP305-8.**
- Voltage; Attenuation; Automation; Detector; Insertion loss; Microwaves; Phase angle; Ratio; Six-port junction; Vector voltmeter; 15649. **SP305-7.**
- Voltage; Attenuation; Microwave; Phase angle; Ratio; Self-calibration; Six-port; Vector voltmeter; 15665. **SP305-7.**
- Voltage; Circuit; Electrical measurements; High-current circuit; High-current discharge; High-voltage circuit; Resistive component; Time-resolved electrical measurements; 9624. **SP305-1.**
- Voltage; Current; Directional coupler; Impedance; Phase; Power; 14580. **SP305-6.**
- Voltage; Volt box; Calibration; Console; Electrical; Measurement; Ratio; Standards; *J70C3-229*, 173-185 (1966). **SP305.**
- Voltage; Waveform; Waveguide junction; Admittance; Antenna; Attenuator; Bolometer; Calorimetry; Horn; Impedance; Interferometry; Measuring system; Phase; Power; Radiometry; Resonant cavity; *SP300, Volume 4*. **SP305-2.**
- Voltage balance; Ampere-turn balance; Flux balance; Standard resistor; 12515. **SP305-4.**
- Voltage breakdown; Air gap; Electrical breakdown; Insulator flashover; Lightning protection; VLF antenna; *NBSIR 75-731*. **SP305-7.**
- Voltage breakdown; Bibliography; Semiconductor material inhomogeneities; Measurement methods; Photovoltaic; Electron voltaic; Photoconductivity; Point potential probe; Spreading resistance; *TN445*. **SP305-1.**
- Voltage comparator; Voltage divider; Attenuator; Binary divider; Inductive voltage divider; Ratio transformer; 11328. **SP305-2.**
- Voltage comparator; Voltage measurements; Audio-frequency; Comparator; Standards; Thermal converters; Thermoelements; Transfer standards; 9782. **SP305-1.**
- Voltage comparator; Voltage monitor; Voltmeter; Detector networks; Differential voltmeter; 10912. **SP305-2.**
- Voltage comparator; Voltage standard; Josephson effect; Standard cell; Tunnel junction; 13949. **SP305-6.**
- Voltage comparison; Josephson junction; Standard cell; 13707. **SP305-5.**
- Voltage contrast; Cathodoluminescence; Electron beam induced conductivity contrast; Electron channeling contrast; Magnetic domain contrast; Scanning electron microscopy; 12521. **SP305-7.**
- Voltage contrast; Computer aided design; Contaminant resters; Electron trajectories; Scanning electron microscopy; Secondary electron detection; 12717. **SP305-4.**
- Voltage contrast mode; Wire bonds; X-ray photoelectron spectroscopy; Boron redistribution; Collector resistor; Dop profiles; Effective masses; Electrical properties; Electron beam induced current mode electronics; Epitaxial layer thickness; Flying spot scanner; *SP400-4*. **SP305-6.**
- Voltage contrast mode; Wire bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; Epitaxial layer thickness; Flying-spot scanner; Gold doped silicon; Hermeticity; Measurement methods; Microelectronics; Micrometrology; *SP400-8*. **SP305-7.**
- Voltage contrast mode; X-ray photoelectron spectroscopy; Acoustic emission; Auger electron spectroscopy; Beam bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; Dopant profiles; Electrical properties; Electronics; Four-probe method; *SP400-25*. **SP305-1.**
- Voltage converter; Emf comparator; Frequency compensation; Temperature compensation; Thermoelement; Transfer voltmeter; 11200. **SP305-2.**
- Voltage dependence, negligible 300-kV capacitor; Capacitance compressed-gas, negligible voltage dependence; Capacitance high-voltage, negligible voltage dependence; Capacitance negligible voltage dependence; Capacitor, standard, negligible voltage dependence; 14381. **SP305-6.**
- Voltage divider; Asymptotic expansion; Characteristic impedance; Coaxial line; Complimentary error function; Conductor; Cylindrical; Dielectric; Error; Generator; Loss; Miniaturization; Model; Planar; Propagation function; Pulsed receiving end; Skin effect; Step response; 14347. **SP305-6.**
- Voltage divider; Attenuator; Binary divider; Inductive voltage divider; Ratio transformer; Voltage comparator; 11328. **SP305-2.**
- Voltage divider; Null detector; Superconductivity; 1296. **SP305-4.**
- Voltage divider; Voltage ratio; Calibration; Comparator; High permeability core; Inductive voltage divider; Phase angle; F C network; Shielded transformer; Toroidal core; 1061. **SP305-1.**
- Voltage divider; Voltage ratio; Calibration; In-phase deviation; Inductive voltage divider; Measurements; Quadrature deviation; Ratio calibration; Transformer; Two-stage voltage transformer; *J72C No. 1*, 49-59 (1968). **SP305-1.**
- Voltage divider; Voltage ratio; Divider; Inductive voltage divider; Ratio; 11894. **SP305-3.**
- Voltage divider; Volt-box; Calibration; Errors; Heating; 9305. **SP305.**
- Voltage gain; Closed-loop gain; Operational amplifiers; 10395. **SP305-1.**
- Voltage, high-frequency, calibration; Voltage measurement; Voltage Tee; Calibration, high-frequency voltages; Measurement, microwave voltages; 9266. **SP305.**
- Voltage measurement; BOLOVAC; Calibration of current meters through microwaves; Calibration of power meter through microwaves; Calibration of voltmeters through microwaves; Current measurement; Disk-type bolometer evaluation; *Monogr. 123*. **SP305-4.**
- Voltage measurement; Electrical standards; Standard cells; U.S. legal volt; Volt; 16268. **SP305-8.**
- Voltage measurement; High frequency voltages; Microwave voltages; Standards of rf voltage; 10059. **SP305-1.**
- Voltage measurement (HF & MW); Bolovac; Current measurement (HF & MW); (HF & MW); Microwave currents; Microwave voltages; Power measurement; 11926. **SP305-3.**
- Voltage measurements; Attenuation measurements; Field strength measurements; High frequency measurements; Im

pedance measurements; Phase measurements; Progress in radio measurements; Thermal noise measurements; 10182. SP305-1.

oltage measurements; Audio-frequency; Comparator; Standards; Thermal convectors; Thermoelements; Transfer standards; Voltage comparator; 9782. SP305-1.

oltage measurements; Current measurement; Measurement voltages; Microwave current; Microwave voltages; Transmission-line voltages; J.72C No. 1, 61-79 (1968). SP305-1.

oltage measurements; Electrical measurements; Radio frequency; 16519. SP305-8.

oltage measurements; Voltage Tee; Calibration, high-frequency voltages; Measurement, microwave voltages; Voltage, high-frequency, calibration; 9266. SP305.

oltage monitor; Absolute volt experiment; Feedback control system; Power amplifier; Power supply oscillator; Stable ac supply; 14053. SP305-6.

oltage monitor; Voltmeter; Detector networks; Differential voltmeter; Voltage comparator; 10912. SP305-2.

oltage ratio; Calibration; Comparator; High permeability core; Inductive voltage divider; Phase angle; R-C network; Shielded transformer; Toroidal core; Voltage divider; 10614. SP305-1.

oltage ratio; Calibration; In-phase deviation; Inductive voltage divider; Measurements; Quadrature deviation; Ration calibration; Transformer; Two-stage voltage transformer; Voltage divider; J.72C No. 1, 49-59 (1968). SP305-1.

oltage ratio; Current ratio; Leakage impedance; Magnetizing impedance; Ratio error; Single-stage transformer; Two-stage transformer; 14493. SP305-6.

oltage ratio; Divider; Inductive voltage divider; Ratio; Voltage divider; 11894. SP305-3.

oltage ratio; Divider; Measurement system; Ratio; Ratio standard; Resistive divider; 12150. SP305-3.

oltage reference; Cryogenic; Josephson junction; Standard cell; 16377. SP305-8.

oltage regulation; Zener diode; D-C amplifier; Design equations; Differential amplifier; Dual regulator; Integrated circuit; Output resistance; Power dissipation; Power supply; Preregulator; Regulation factor; Ripple voltage; Transistor; TN371. SP305-1.

oltage standard; Ac Josephson effect; Low-temperature voltage divider; Superconducting tunnel junctions; 16251. SP305-8.

oltage standard; Arrays; Josephson junctions; Microstriplines; Microwave filters; 14941. SP305-7.

oltage standard; Control charts; Experiment design; Saturated standard cells; Standard cells calibration; Statistics; TN430. SP305.

oltage standard; Cryogenic resistor; Current comparator; Josephson device; Microstripline; Microwave coupling; SQUID; Superconducting switch; Tunnel junction; 15596. SP305-7.

oltage standard; Dipole moment; HCN resonance spectrum; Maser spectrometer; Stark effect; J.74A No. 6, 791-799 (1970). SP305-2.

oltage standard; Frequency-to-voltage ratio; Josephson effect; Potentiometer; 12067. SP305-3.

oltage standard; Josephson effect; Standard cell; Tunnel junction; Voltage comparator; 13949. SP305-6.

oltage standard; Zener diode; Electrical measurements; Instrumentation; Standard cell; 10925. SP305-2.

oltage standards; Voltage transport standards; Unit of voltage; Regional maintenance of the volt; Standard cells; Surveillance of local units of voltage; 14935. SP305-7.

oltage Tee; Calibration, high-frequency voltages; Measurement, microwave voltages; Voltage, high-frequency, calibration; Voltage measurements; 9266. SP305.

Voltage transfer; Bus experiment; Charcoal grill safety; Computer privacy and security; Computer standards proposed; Electroexplosive devices; Energy monitor; Jerry-can standard; Materials conservation; Noise pollution; DIM/NBS 58, No. 7, 145-168 (1974). SP305-6.

Voltage transformers; Zener diodes; Ac-dc transfer standards; Capacitors; Current transformers; Dielectric measurements; Electrical calibrations; Electrical measurements; Electrical standards; Electrical units; High voltage measurements; SP300, Volume 3. SP305-1.

Voltage transport standards; Unit of voltage; Regional maintenance of the volt; Standard cells; Surveillance of local units of voltage; Voltage standards; 14935. SP305-7.

Voltage-divider; Voltmeter; Alternating-current; Calibration; Direct-current; High-voltage; Ratio; Safety; Standards enclosure; Transformer; TN349. SP305.

Volt-box; Calibration; Errors; Heating; Voltage divider; 9305. SP305.

Volterra; Burgers vector; Continuum mechanics; Defect; Dipole; Disclination; Dislocation; Distortion; Green's tensor; Incompatibility; Loop; Plasticity; Strain; J.77A No. 1, 49-100 (1973). SP305-5.

Volterra; Burgers vector; Continuum mechanics; Defect; Dipole; Disclination; Dislocation; Distortion; Green's tensor; Incompatibility; Loop; Plasticity; Strain; J.77A No. 5, 607-658 (1973). SP305-5.

Volterra; Continuous; Continuum; Defect; Disclination; Discrete; Dislocation; Distortion; Green's function; Incompatibility; Plasticity; Strain; 12997. SP305-4.

Volterra; Crystal; Defect; Disclination; Dislocation; Elasticity; Jog; Kink; Multiplication; Plasticity; 14745. SP305-7.

Volterra; Wedge; Disclination; Dislocation; Glide; Plasticity; Twist; 13271. SP305-5.

Volterra vector integral equations; Asymptotic solutions; Eigenvalues; Error term; Matrices; Norm bounds; Vector bounds; J.70B3-180, 167-186 (1966). SP305.

Voltmeter; Alternating-current; Calibration; Direct-current; High-voltage; Ratio; Safety; Standards enclosure; Transformer; Voltage-divider; TN349. SP305.

Voltmeter; Detector networks; Differential voltmeter; Voltage comparator; Voltage monitor; 10912. SP305-2.

Volume; Anderson-Grüneisen parameter; Bulk modulus; Compressibility; Grüneisen constant; Pair potential; Paraffins; Polyethylene; Polymers; Pressure; 11677. SP305-2.

Volume; Argon; Compressed liquid; Density; Density ratios; Liquid; Nitrogen, oxygen; Parahydrogen; Pressure; Saturated liquid; Tables; Temperature; Uncertainties; TN361. (Revised). Metric Supplement. SP305-6.

Volume; Argon; Density; Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; Temperature; Uncertainties; TN361. SP305-1.

Volume; Bell prover; Calibration; Inspection; Liquefied petroleum gas; Pressure; Report form; Temperature; Temperature compensator; Test; Vapor meter; H117. SP305-7.

Volume; Bulk modulus; Grüneisen; *n*-alkanes; Normal mode; Polyethylene; Quasi-harmonic specific heat; String of beads; Thermal expansion; Thermal properties; 12305. SP305-3.

Volume; Compressibility; Configuration; Entropy; Heat capacity; Holes; Polymer; Poly(vinyl acetate); Pressure; Thermal; 16077. SP305-8.

Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Hydrogen; Index of refraction; Joule-Thomson; Latent heat; Melting point; Prandtl number; Specific heat; Speed of sound; TN617. SP305-4.

Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; Lambda line; Latent heat; Melting point; Prandtl number; TN622. SP305-4.

Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; Prandtl number; Oxygen; Specific heat; Speed of sound; *TN384*. SP305-3.

Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Index of refraction; Joule-Thomson; Latent heat; Melting point; Nitrogen; Prandtl number; Specific heat; Speed of sound; Surface tension; *TN648*. SP305-6.

Volume; Volume correction factor; Argon; Compressed liquid; Density; Graphs; Liquid; Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; Tables; Temperatures; Uncertainties; *TN361*, *Revised October 1972*. SP305-5.

Volume; Density; Dielectric constant; Enthalpy; Entropy; Equation of state; Fixed points; Heat transfer coefficients; Helium 4; Index of refraction; Joule-Thomson coefficient; Lambda line; Latent heat; Melting point; Prandtl number; *TN631*. SP305-5.

Volume; Volumetric measurement; Density; Density standard; Hydrostatic weighing; *10459*. SP305-1.

Volume; Weight; Cost; Cryogenic refrigerators; Efficiency; *TN655*. SP305-6.

Volume; 1.8 to 90 K; Cost; Cryogenic; Efficiency; Mass; Refrigeration; *11457*. SP305-2.

Volume change; Annealing; Crystalline polymers; Material transport; Thickening; *14754*. SP305-7.

Volume change; Bismuth; Free piston gage; High pressure; Polymorphic phase transition; Transition pressure; *9785*. SP305-1.

Volume change; Collagen; Dilatometry; Hydrophobic bonding; "native" aggregation; *9622*. SP305-1.

Volume change on vulcanization; Vulcanization; Aneroid calorimeter; Calorimeter; Heat measurements; Heat of vulcanization; Rubber; Rubber-sulfur reaction; *J.73A No. 2*, 221-231 (1969). SP305-1.

Volume conductivity; Insulation conductance; Resistance; Dielectric resistance; Resistivity; Dielectric constant; Permittivity; Dissipation factor; Loss index; Dielectric strength; Arc resistance; Tracking; Measurements; Electrical testing; Conductance; *9174*. SP305.

Volume correction factor; Argon; Compressed liquid; Density; Graphs; Liquid; Nitrogen; Oxygen; Parahydrogen; Pressure; Saturated liquid; Tables; Temperatures; Uncertainties; Volume; *TN361*, *Revised October 1972*. SP305-5.

Volume dependence; Capacitance standards; Fused silica dielectric; Picofarad capacitor; Shock sensitivity; Stability of value; Ten picofarad capacitor; Transportable ten picofarad capacitor; Unit of capacitance; *9653*. SP305-1.

Volume dependence of density-of-states; Aluminum (Al); Electronic density of states; Electronic specific heat; Gallium; Gruneisen parameter, electronic; Superconductivity; Thermal expansion; Thorium; *SP323*, pp. 731-734. SP305-4.

Volume dilation; Composite materials; Coupling agents; Epoxy polymer; Parting agents; Poisson's ratio; Release agents; Stress-strain curve; *12379*. SP305-3.

Volume effects; Charge flow; Isomer; Mössbauer; Phase diagram;  $\text{TiFeH}_x$  alloys; *16597*. SP305-8.

Volume exclusion; Linear polymers; Markov chains; Order-disorder transitions; Random variables; Restricted chains; Theta point; Transition probabilities; *11646*. SP305-2.

Volume flow; Accuracy; Calibration; Commodity transfer; Cryogenic; Cryogenic processes; Density; Flowmeters; Mass flow; Mass flowmeters; Performance results; Propellant management; Substitute fluid; *9428*. SP305.

Volume flowmeters; Cryogenic; Flow; Liquid nitrogen; Mass; Mass flowmeters; Measurement; Turbine flowmeters; *TN624*. SP305-4.

Volume flowmeters; Vortex shedding; Angular momentum; Cryogenic; Flow; Liquid nitrogen; Mass; Mass flowmeter; Measurement; Orifice; *TN650*. SP305-6.

Volume form; (n,y) cross sections; Calculations; Complex interaction; Semi-direct model; *SP425*, pp. 346-349. SP305-7.

Volume measurements; Length measurements; Mass measurements; Metrology; Standards; State laboratories; *SP335*, 189-94. SP305-3.

Volume of ball; Asphericity correction; Density; Spherical harmonics; *J.78A No. 1*, 41-48 (1974). SP305-6.

Volume of spheres; Density standards; Interferometer; *J.71 Nos. 1 and 2*, 11-20 (1972). SP305-4.

Volume relaxation; Annealing; Borosilicate crown glass; Glass; Index of refraction; Relaxation times; Two-relaxation time model; *J.71A3-456*, 231-238 (1967). SP305.

Volume relaxation; Composition fluctuations; Critical point phenomena; Immiscibility; Oxide glasses; Ultrasonic spectroscopy; *13243*. SP305-5.

Volume relaxation times; Activation energy; Annealing; Arrhenius behavior;  $\text{B}_2\text{O}_3$  glass; Distribution of relaxation times; Relaxation times; *11674*. SP305-2.

Volume relaxation, WLF; Dilatometer; Isothermal volume change; Polyethylene; Specific volume; Superposition; Thermal expansion; *13774*. SP305-5.

Volume resistivity; Calorimetry; Cryogenics; Dielectric constant; Ferroelectric ceramic; Pyroelectric coefficient; Thermometry; *11037*. SP305-2.

Volume standard; Density; Density calibration; Density measurement; Density standard; *15215*. SP305-7.

Volume standard; Density standard; Hydrostatic weighing; Perfect sphere; Silicon; Spherical interferometer; Spherical volume; *J.78A No. 1*, 13-40 (1974). SP305-6.

Volume viscosity; Activity coefficients; Binary mixture; Brillouin scattering; Fluctuations; Light scattering from solution; Rayleigh scattering; Thermal relaxation; *11686*. SP305-2.

Volume viscosity; Brillouin scattering; Density fluctuations; Liquids; Rayleigh scattering; Spectral distribution of scattered light; Structural relaxation; Thermal relaxation; *J.72A No. 95-100* (1968). SP305-1.

Volume viscosity; Brillouin scattering; Critical opalescence; Critical phenomena; Density fluctuations in fluids; Light scattering; *J.73A No. 6*, 593-598 (1969). SP305-1.

Volume viscosity; Corresponding states fluid; Elastic modulus; Liquids; Relaxation time for volume viscosity; Shear relaxation time; Time correlation function; *10695*. SP305-1.

Volume viscosity; Critical phenomena; Fluctuation and time correlation function; Heat capacity; Shear viscosity; Thermal conductivity; Van der Waals gas; *10696*. SP305-1.

Volume-extension; Compressibility; Elasticity; Finite deformation; Hyperelasticity; Rubbery materials; Strain-energy function; *15015*. SP305-7.

Volume-extension; Compressibility; Natural rubber; Strain energy; *12961*. SP305-4.

Volumetric; Air density; Calibration; Gravimetric; NBSIR 73-287. SP305-6.

Volumetric calibration; Burets; Capacity; Flasks; Meniscus; Pipets; *NBSIR 74-461*. SP305-7.

Volumetric flow; Accuracy; Calibration; Compressible flow; Differential meter and effects; Fluid meter; Incompressible flow; Laminar flow; Mach number; Reynolds number; Viscous flow; *9535*. SP305-1.

Volumetric measurement; Density; Density standard; Hydrostatic weighing; Volume; *10459*. SP305-1.

Volumetric measurement; Water density; Water weighing; Accuracy; Balance; Balance calibration; Balance equilibrium; Balance sensitivity; Density; Double substitution weighing; Hydrostatic balance; Hydrostatic weighing; *J.71C3-254*, 175-198 (1967). SP305.



blometric pressure dividers; Bayard-Alpert gages; Cold cathode vacuum gages; Conductance pressure dividers; Hot cathode vacuum gages; Ionization gages; Vacuum gage calibration systems; Vacuum gages; *TN298*. **SP305**.

blometric proving; Flowmeter calibration; Gas density; Gas flow measurement; Gas viscosity; Mass and volume flow; *13096*. **SP305-5**.

blometric transfer calibration; Check standard; Closure; Gravimetric calibration; Standard deviation; Test measure; *NBSIR 74-454*. **SP305-6**.

bluntary; Education; Efficiency comparison; Household appliances; Household equipment; Label developments; Labeling; Label specification; Monitoring priorities; Product classes; Test methods; *15204*. **SP305-7**.

bluntary Product Standards; Editorial format; Format; Product Standards; Standard; *PSO-70*. **SP305-3**.

bluntary standardization; Aerosols; Fair Packaging and Labeling Act; Packages; Proliferation; *14720*. **SP305-7**.

bluntary standardization; Engineering standards; Standardization process; *13051*. **SP305-4**.

bluntary standardization; Government/non-government cooperation; Performance standards; Safety codes; Simplified practice recommendations; Standards of quality; *10505*. **SP305-1**.

bluntary standards; Automated customer identification; Automated merchandise identification; Automatic reading technology; Automation technology for retail industry; Computers; National Retail Merchants Association; Retail industry; Retail merchandising; *13452*. **SP305-5**.

bluntary standards; Computer science; Laboratory accreditation; Measurement; National measurement system; Technology transfer; *14920*. **SP305-7**.

bluntary standards; Consumers; Safety; Standards; *11639*. **SP305-2**.

bluntary standards; Weapons; Building systems; Communications equipment; Concealed objects detectors; Emergency equipment; Law Enforcement Standards Laboratory; Procurement guidelines; Protective equipment; Security systems vehicles; *15325*. **SP305-7**.

bluntary standards; Working with government; Consumer activism; Control proliferation; Industry; Interaction; Package quantity standards; *15504*. **SP305-7**.

bluntary standards; X rays; Radiation safety; Radiography; *13482*. **SP305-5**.

bluntary standards; X-ray; Law enforcement; *12781*. **SP305-4**.

bluntary standards system; Engineering standards; Standardization; *13052*. **SP305-4**.

OR; Aircraft navigation systems; Digital frequency synthesis; National standards; Precision audiofrequency signal generation; Precision FM signal generation; Precision phase angle generation; Radio navigation; *16530*. **SP305-8**.

oronoi polyhedra; Aluminum diboride—cadmium diiodide structure; Bidirectional orbitals; Effective charge; ESCA; Fermi surface distortion; Madelung constant; Madelung potential; Metallic single bond radii; *SP364*, pp. 515-559. **SP305-4**.

ortex; Vortex motion; Curved vortex; Elliptic vortex ring; Localized-induction; Motion of vortex ring; *10215*. **SP305-1**.

ortex coupling; Dc transformer; Granular aluminum films; Magnetic coupling; Superconducting dc transformer; Type II superconducting films; *15361*. **SP305-7**.

ortex model; Electron tunneling; Ginzburg-Landau theory; Magnetic field; Superconduction; Thin film; Tin; *9640*. **SP305-1**.

ortex motion; Curved vortex; Elliptic vortex ring; Localized-induction; Motion of vortex ring; Vortex; *10215*. **SP305-1**.

ortex pinning; Critical current densities; Critical currents; Granular aluminum films; Granular films; Type II superconducting films; *15520*. **SP305-7**.

Vortex shedding; Angular momentum; Cryogenic; Flow; Liquid nitrogen; Mass; Mass flowmeters; Measurement; Orifice; Volume flowmeters; *TN650*. **SP305-6**.

Vortex shedding; Angular momentum; Cryogenic; Flowmeter; Liquid nitrogen; Measurement; Positive displacement; Turbine; *15043*. **SP305-7**.

Vortex shedding; Wind loads; Aeroelasticity; Buildings; Circular cylinders; Gust factors; Masts; Structural engineering; Towers; *B5530*, pp. 115-128. **SP305-3**.

Vortices; Coherent Bose gas; Superfluid; *J73A No. 3, 309-312* (1969). **SP305-1**.

Vorticity; Helium II, superfluid; Thermal conductivity; Thermal gradient; Thermal flux; Turbulence; Two-fluid hydrodynamics; *11718*. **SP305-2**.

Vosburg, W. C.; Acheson medal; Electrochemistry; *9562*. **SP305-1**.

Vote-tallying; Computer security; Computing technology; Election administration; Public administration; State and local government; Systems analysis; Technology utilization; *NBSIR 75-687*. **SP305-7**.

VSWR; Attenuation; Flange measurements; Reflection coefficients; *TN642*. **SP305-5**.

VSWR standard; Waveguide; Coaxial line; Impedance standard; Reflection coefficient standard; *14080*. **SP305-6**.

$\Omega$ -type doubling; Rotational levels; HgAr<sup>+</sup>; Hund's case (c); *12790*. **SP305-4**.

I-type doubling constants; I-type resonance; Methyl cyanide; Microwave spectroscopy; Cyanocetylene; Direct I-type doubling transitions; Fluorocyanogen; *10385*. **SP305-1**.

I-type resonance; Methyl cyanide; Microwave spectroscopy; Cyanocetylene; Direct I-type doubling transitions; Fluorocyanogen; I-type doubling constants; *10385*. **SP305-1**.

Vulcanizates; Compliance; Creep; Dicumyl peroxide vulcanizates; Indentation of rubber; Modulus; Natural; Natural rubber; Rubber; Strain-time relations; *11793*. **SP305-2**.

Vulcanization; Aneroid calorimeter; Calorimeter; Heat measurements; Heat of vulcanization; Rubber; Rubber-sulfur reaction; Volume change on vulcanization; *J73A No. 2, 221-231* (1969). **SP305-1**.

Vulcanization; Cure meter; Mooney viscometer; Oscillating-disk cure meter; Processability; Rubber testing; Standardization; *14431*. **SP305-6**.

Vulcanization; X-ray diffraction; Anisotropic; Beta-naphthyl group; Block polymers; Bonds; Crystallization; Elastomers; Expansivity; Forces; Phenyl-beta-naphthylamine; Stiffening; *11144*. **SP305-2**.

Vulcanization; Zinc dibutyldithiocarbamate; Zinc dimethyldithiocarbamate; Accelerators; Far infrared; Natural rubber; Sulfur; Tetramethylthiuram disulfide; *J71A1-432, 19-23* (1967). **SP305**.

V<sub>2</sub>O<sub>5</sub>; Metallic-insulator transition; Photoelectron spectroscopy; *SP364*, p. 127. **SP305-4**.

V<sub>2</sub>O<sub>5</sub>, Y<sub>2</sub>O<sub>3</sub>; Yttrium vanadate; Phase diagram; *10190*. **SP305-1**.

V<sub>3</sub>Ga; AuGa<sub>2</sub>; BiIn; Bismuth; Diamagnetism; Knight shift; NaTi; Polarization; *12085*. **SP305-3**.

- W; WC; Catalysis; Density of states; Magnetic exchange enhancement; Pt; 14287. **SP305-6.**
- W. F. R. Weldon; Bibliography; *Biometrika*; Chi-square tests; Correlation, regression; R. A. Fisher; Francis Galton; Frequency curves, method of moments; Karl Pearson; Statistics; *Tables for Statisticians and Biometricians*; 14822. **SP305-7.**
- W  $\tau$ ; Atomic energy levels of W  $\tau$ ; Classified lists of W  $\tau$ ; Spectrum; W  $\tau$ ; Tungsten, First spectrum; *J73A No. 3*, 277-279 (1969). **SP305-1.**
- W  $\tau$ ; Atomic spectrum, W  $\tau$ ; Energy levels, W  $\tau$ ; Spectrum of tungsten; Tungsten; *J72A No. 6*, 757-760 (1968). **SP305-1.**
- W spin; Arbitrary spin state; Basic spin; Linear combinations; Ordinary spin states; Spin states; 9768. **SP305-1.**
- W spin; Hadrons; Little group; Spin algebras; SU(6); 9621. **SP305-1.**
- W substrate; Density of states at the adsorbate; Energy levels; S state adsorbate; Surface molecule; Tight binding calculation; 13671. **SP305-5.**
- Wadsley defects; Annealing equilibria; Electron microscopy; Niobium tungsten system; 12263. **SP305-3.**
- Wadsley defects; Block structures; Crystallographic shear; Defect clusters; Defect models; High resolution electron microscopy; Oxide defects; Rutile structure; *SP364*, pp. 295-317. **SP305-4.**
- Wadsley defects; Crystallographic shear planes; Crystal structure; Electron diffraction; Electron microscopy; Lattice images; Lithium ferrites; Lithium lutetium titanate; Niobium-titanium oxides; Niobium-tungsten oxides; Tungsten oxides; *SP364*, pp. 87-111. **SP305-4.**
- Wagner turbidimeter; Air-permeability; Cements; Fineness; No. 32 sieve; Portland cements; Precision; Tests; 13855. **SP305-6.**
- Walker-jumpers; Accident reports; Baby walkers; Infants; Safety standards; Test methods; *NBSIR 74-434*. **SP305-6.**
- Walking friction; Building safety; Floor surface friction; Occupancy safety; Slip-resistance; Slip-resistance testers; *TN895*. **SP305-8.**
- Wall and ceiling; Carpets; Flame spread; Kitchen cabinets; Operation BREAKTHROUGH; Smoke generation; 13609. **SP305-5.**
- Wall effects; Absorbed dose distributions; Electrons, delta rays and beta particles; Event-size; Microdosimetry; Transport theory; 14703. **SP305-6.**
- Wall, L. A.; Biography; 16068. **SP305-8.**
- Wall panels; Walls; Compression; Eccentric loading; Flat-end; Kern; Loading rate; Pin-end; Test method; *NBSIR 75-779*. **SP305-8.**
- Wall panels; Walls; Lateral loads; Loading rate; Racking; Test method; Vertical loads; *BSS91*. **SP305-8.**
- Wall shift; Atomic clocks; Cesium beam; Clocks; Frequency fluctuations; Frequency standards; Hydrogen maser; Hyperfine separation; Maser; Noise; Standards; Time standards; 10108. **SP305-1.**
- Wall shift; Frequency accuracy; Hydrogen maser; 11892. **SP305-3.**
- Wall system; Accelerated aging; Compression; Environmental conditions; Flexure; Housing system; Operation BREAKTHROUGH; Polyurethane foam; Sandwich construction; 13386. **SP305-5.**
- Walls; Axial load (force); Bending moment; Building codes; End-fixity; Reinforced concrete; Slenderness; Strength; Structural analysis; 11933. **SP305-3.**
- Walls; Brick; Buckling; Composite walls; Compressive strength; Concrete block; Constitutive relations; Flexural strength; Masonry; Masonry walls; Mortar; Slenderness ratio; Standards; Stiffness; Structural stability; *BSS73*. **SP305-8.**
- Walls; Brick; Cavity walls; Composite walls; Compressive strength; Concrete block; Flexural strength; Masonry; Mortar; Slenderness effects; Standards; Structural stability; *BSS34*. **SP305-3.**
- Walls; Brick; Dolomitic mineral; Masonry; Mortars (material) 15582. **SP305-7.**
- Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry Moments; Slenderness ratio; Stability; Structural engineering; 12227. **SP305-3.**
- Walls; Bricks; Buckling; Deflection; Loads (forces); Masonry Moments; Slenderness ratio; Stability; Structural engineering; 15507. **SP305-7.**
- Walls; Bricks; Building codes; Buildings; Concrete block Masonry; Research; Reinforced masonry; Structural engineering; 14107. **SP305-6.**
- Walls; Building construction; Complete buildings; Floor Roofs; Standardization; Test methods; *BSS58*. **SP305-6.**
- Walls; Compression; Eccentric loading; Flat-end; Kern; Loading rate; Pin-end; Test method; Wall panels; *NBSIR 75-779*. **SP305-8.**
- Walls; Facade; Noise; Sound insulation; Sound pressure level; *TN710-2*. **SP305-4.**
- Walls; Lateral loads; Loading rate; Racking; Test method; Vertical loads; Wall panels; *BSS91*. **SP305-8.**
- Walls; Lime (dolomitic); Masonry; Mortars (materials); Portland cement; Testing; 15992. **SP305-8.**
- Walls; Wind damage; Wind loads; Buildings; Fluctuating pressure; Gust factors; *BSS30*, pp. 9-18. **SP305-3.**
- Walls; Wind loads; Windows; Curtain walls; Doors; Tests; 14593. **SP305-6.**
- Wall-stabilized; Arc; Calibrations; Hydrogen; Plasma Radiometry; Spectral radiance; Vacuum ultraviolet; 1529. **SP305-7.**
- Wall-stabilized; Arc; *f*-values; Iron; Oscillator strengths; 1274. **SP305-4.**
- Wall-stabilized arc; Arc plasma; Iron; Lifetimes; Oscillator strength; Transition probabilities; 15411. **SP305-7.**
- Wall-stabilized arc; Atomic; Infrared lines; Neutral argon Transition probabilities; 11479. **SP305-2.**
- Wall-stabilized arc; Balmer lines  $H\alpha$  and  $H\beta$ ; Half-widths; Line profiles; Stark broadening; 10463. **SP305-1.**
- Wall-stabilized arc; Blackbody calibrations; Hydrogen continuum; Primary standard; Radiometry; Vacuum ultraviolet; 15412. **SP305-7.**
- Wall-stabilized arc; Calibrations; Deuterium lamp; Far ultraviolet; Hydrogen; Krefft-Rössler lamp; Spectral radiance; Transfer standards; 13646. **SP305-5.**
- Wall-stabilized arc; Flow-stabilized arc; Oscillator strength; U I; U II; 15066. **SP305-7.**
- Wall-stabilized arc; Line strength; Nickel-carbonyl; Ni I and Ni II; Oscillator strength; Relative measurements; Transition probabilities; 9573. **SP305-1.**
- Wandel & Goltermann; Automatic noise-level recorders; Calibration of carrier-frequency filters; Microwave transmission lines; Siemens-Halske AEG; *SP335*, pp. 125-127. **SP305-3.**
- Warded lock; Ace type pin tumbler lock; Cheek plate tamper resistance; Salt spray corrosion resistance; 14959. **SP305-7.**
- Warfarin; Adenosinetriphosphate-thermodynamics; Chemical bond energy; Coiled helix thermopiles; Drug receptor complexing; Entropy; Enzyme detection + analysis; Equilibrium; Free energy; Free entropy concept; Heat of reaction; Heat burst principle; 13730. **SP305-5.**
- Warm sensitive neurons; Anesthesiology; Brain temperature; Carotid artery; Clinical medicine; Cold stress (diver); Disposable thermometry; Esophageal thermometer; Fever; Fulminant hyperpyrexia; Heart temperature; Hypothalamus; heat stress; Hypothermia; 13631. **SP305-5.**

armth to touch; Colour fastness; Flatness; Flooring; Indentation; Performance requirements; Properties; Quality classes; Rolling load; Surface evenness; Test methods; *SP361, Vol. 1, pp. 601-612. SP305-4.*

arming lights; Consumer products; Human factors; Kitchen; Ranges; Reaction time; Safety; *NBSIR 75-797. SP305-7.*

arming lights; Weights and measures; Auto paint; Chlorine monitor; Color measurements; Color use; Postdoctoral appointments; Retroreflectors; Semiconductor technology; Thermocouple data; Video tape; *DIM/NBS 58, No. 9, 193-215 (1974). SP305-6.*

arming lights and sirens; Anthropometry; Communications equipment; Forensic science; Law Enforcement Standards Laboratory; LESL; Performance standards; Project plans; Protective equipment; Security equipment; Standards; *NBSIR 74-529. SP305-6.*

arrantry; Accuracy; Audit; Certification; Code-independent; Documentation; Optimization; Precision; Run statistics; Security; Terminology; Validation; *SP406, pp. 141-144. SP305-7.*

ash and wear performance; Durable press; Fiber; Uncured resin cellulose fabric; 9599. *SP305-1.*

ashability; Water vapor permeance; Abrasion; Adhesion; Colorfastness; Covering; Materials; Flash point; Flame spread; Impact resistance; Lead paint poisoning; Materials; Performance; Properties; Scratch resistance; Smoke generation; *TN808. SP305-5.*

ash-and-wear; Apparel; Care instructions; Labeling, apparel; Performance, apparel; Properties, apparel; Testing textiles; *11492. SP305-2.*

ash-and-wear textiles; Apparel, textile; Blends, fabric; Care instructions, textiles; Consumer goods, textile; Fabrics, textile; Fibers, textile; Flammability, textile; Glossary, textile; Properties, textile fiber; Textiles; *CISI. SP305-2.*

ashes; Bound styrene; Carbon black; Chemical analysis; Latexes; Oil; Organic acid; Serums; Soap; Stabilizer; Styrene-butadiene rubber (SBR); *TN485. SP305-1.*

ashington Cathedral; Cathedral; Deformation; Lead; Roof; *12678. SP305-4.*

ashington Cathedral; "1921"; Cathedral; Deformation; Lead; Roof; *12377. SP305-3.*

ashington State; Washington State Fisheries; Fisheries; Fishery; Fishery modeling; Mathematical modeling; Regulatory analysis; Resource management; Salmon fisheries; Salmon fishery modeling; Simulation; State of Washington; *NBSIR 75-745. SP305-7.*

ashington State Fisheries; Anadromous Fish Catch Record System; Catch record system; Fisheries statistics; Fish record system; Fishery management model; Fishery modeling; Modeling; Salmon; Salmon fishery; Salmon information system; *NBSIR 75-796. SP305-7.*

ashington State Fisheries; Fisheries; Fishery; Fishery modeling; Mathematical modeling; Regulatory analysis; Resource management; Salmon fisheries; Salmon fishery modeling; Simulation; State of Washington; Washington State; *NBSIR 75-745. SP305-7.*

aste; ABS; Cast iron; Copper; Drain; Fire endurance; Fire spread; Fire test; Operation BREAKTHROUGH; Plastic pipe; PVC; Smoke; Toxic gases; Vent; *NBSIR 74-449. SP305-7.*

aste disposal; Combustion thermodynamics; Enthalpies of formation; Incinerators, industrial; Thermodynamic data; *16032. SP305-8.*

aste heat; Computer; Consumer; Drugs; Electrical pulses; Environmental standards; Friction measurement; Lead poisoning; LNG data; Optical; Standard reference materials; Thermophysical properties symposium; *DIM/NBS 60, No. 9, 1-24 (1976). SP305-8.*

aste heat recovery; Data acquisition system; Electrical power system; Energy conservation; Fuel utilization; Thermal efficiency; Thermal energy system; Total energy system; Utility system performance; *14216. SP305-6.*

Waste incineration; Cancer detection; City games; Temperature scale; Truck noise; *TNB 57, No. 2, 25-52 (Feb. 1973). SP305-5.*

Waste management; Yield; Actinide burnup; Cross section sets; Neutron spectrum; Transplutonium; *SP425, pp. 214-217. SP305-7.*

Waste paper; Market pulp; Paper, waste; Pulp, secondary; Recycled paper; Secondary pulp; *15604. SP305-7.*

Waste pipe; ABS, building fires; Drain pipe; Fire spread; Pipe chase; Smoke; Temperature; Vent pipe; *14227. SP305-6.*

Waste receptacle; Buildings; Combustibility; Fire intensity; Flames; Furnishings; Heat release; Ignition; Smoke; Thermal radiation; Upholstery; *NBSIR 75-679. SP305-7.*

Waste receptacle; Wood crib; Buildings; Fire intensity; Flame spread; Flames; Furnishings; Heat release; Interior linings; Material ignitability; Room fires; Smoke; Upholstery; *SP411, 125-138. SP305-6.*

Waste recycling in a  $^{235}\text{U}$ - $^{238}\text{U}$  reactor; Actinide fuel, fertile material, and wastes; Recycle concept; Transuranium element production; *SP425, pp. 222-223. SP305-7.*

Waste utilization; Fuel from waste; Incinerators; Organic waste conversion; Thermodynamic data for incinerators; *15065. SP305-7.*

Wastebaskets; Buildings; Calorimetry; Combustibility; Fire intensity; Flame spread; Furnishings; Heat release; Thermal radiation; *SP361, Vol. 1, pp. 677-686. SP305-4.*

Waster; Water; Computer vote; Cost-sharing; Cryogenic data; Earthquake; Energy; Grain alcohol; Measurement science; Pollution; Screw threads; Smoke and gas fatalities; *DIM/NBS 58, No. 12, 265-288 (1974). SP305-6.*

Wastewater; Water pollution; Water resources; Cost sharing; Efficiency; Environment; Financing; Grants; Pollution abatement; *15810. SP305-8.*

Wastewater; Water pollution; Water resources; Cost sharing; Economic efficiency; Environment; Equity; Financing; Grants; Pollution abatement; User fees; *16564. SP305-8.*

Water; Absorbed dose; Beta-rays; Electrons; Internal dosimetry; Tissue; *12630. SP305-4.*

Water; Absorption; Carcinogenic; Fluorescence; Polycyclic aromatic hydrocarbons; Quantum yields; *15831. SP305-8.*

Water; Ammonia; Dissociative photoionization;  $\text{NH}_2^+$ ,  $\text{OH}^+$ ; Photoionization; Threshold energies; *15352. SP305-7.*

Water; Analysis; Carbon; Crud; Filtration; Pressurized water reactors; Primary coolant; Sampling; *SP422, pp. 429-438 (Aug. 1976). SP305-8.*

Water; Anomalous water; Infrared spectrum of polywater; Polywater; Raman spectrum of polywater; *11048. SP305-2.*

Water; Asymmetric, linear, and symmetric top molecules; "B" rotational constants; Formaldehyde; Microwave spectra; Spectral lines; *J.73A No. 2, 233-239 (1969). SP305-1.*

Water; Atmospheric chemistry; Chemical kinetics; Data evaluation; Nitrogen oxides; Ozone; Photochemistry; Stratosphere; *13491. SP305-5.*

Water; Bath; Control; Temperature; *10561. SP305-1.*

Water; Benchmark; Cross sections; Graphite; Neutron; Sodium; *SP425, pp. 177-183. SP305-7.*

Water; Beta alumina; Blocking electrode; Interface; Solid electrolyte; *SP455, pp. 341-349 (Nov. 1976). SP305-8.*

Water; Binary mixture; Coexistence curve; Critical phenomena; Density; Isobutyric acid; Magnetic densimeter; Phase equilibria, carbon disulfide, nitromethane; *16480. SP305-8.*

Water; Bond energy (O-F); Flame calorimetry; Flow calorimetry; Fluorine; Heat of formation; Heat of reaction; Hydrogen fluoride; (aqueous); Oxygen; Oxygen difluoride; Reaction calorimetry; *J.72A No. 2, 113-131 (1968). SP305-1.*

Water; Bulk modulus; Density; Equation of state; High pressure; Velocity of sound; *10983. SP305-2.*

Water; Calibration; Electrical measurements; High voltage measurements; Insulating fluids; Kerr coefficient; Nitrobenzene; Pulse voltage measurement; Space charge; *NBSIR 74-564*, SP305-6.

Water; Carcinogenic compounds; Partition coefficient; Photon counting; Polycyclic aromatics; Spectrofluorimetry; *15839*, SP305-8.

Water; Chesapeake Bay; Elemental sulfur; Flameless atomic absorption; Petroleum; Plankton; Sediments; Total mercury; *15874*, SP305-8.

Water; Coexistence curve; Compressibility; Critical anomalies; Critical exponents; Critical region; Equation of state; Scaling law; Specific heat; Steam; *13059*, SP305-5.

Water; Computer vote; Cost-sharing; Cryogenic data; Earthquake; Energy; Grain alcohol; Measurement science; Pollution; Screw threads; Smoke and gas fatalities; Water; *DIM/NBS 58*, No. 12, 265-288 (1974), SP305-6.

Water; Controlled atmospheres; Extinguishing; Fire extinguishers; Fires; Halons; Oxygen; Spacecraft cabin atmospheres; *13515*, SP305-5.

Water; Critical flow; Pressure profile; Steam; Venturi; *TN608*, SP305-3.

Water; Crystal growth; Cylinder; Ice; Morphological stability; Surface tension; *11321*, SP305-2.

Water; Crystal growth; Cylinder; Ice; Morphological stability; Morphology; *11274*, SP305-2.

Water; Cylinder; Heat flow; Ice; Interfacial free energy; Perturbations; Stability; Surface tension; *10973*, SP305-2.

Water; Cylinder; Heat flow; Ice; Morphology; Perturbations; Stability; Surface tension; *10974*, SP305-2.

Water; Density; Dielectric constant; Excess molar volume; Kirkwood correlation parameter; N-methylpropionamide; Structure; *10988*, SP305-2.

Water; Dielectric fluids; Electrical properties of fluids; High voltage measurements; Kerr coefficient; Kerr effect; Nitrobenzene; Pulse measurements; *NBSIR 74-544*, SP305-6.

Water; Dipole moment; Stark effect; *13836*, SP305-6.

Water; Electron affinity; Negative, ion; Photodetachment; *10964*, SP305-2.

Water; Equation of state; Interior ballistics; *16313*, SP305-8.

Water; Filtering water; River water; Sampling water for trace elements; Suspended particulates in water; Teflon water sampler; Trace elements; Trace elements in water; *SP422*, pp. 439-455 (Aug. 1976), SP305-8.

Water; Freeze drying; Instrumental neutron activation analysis; Lyophilization; Neutron activation analysis; Preconcentration; Radioactive tracers; River water; Trace elements; Tracers; *15376*, SP305-7.

Water; Hydrocarbons; Ion-molecule reactions; Mass spectrometry; Photoionization; Proton transfer; *11927*, SP305-3.

Water; Hyperfine structure; Interstellar molecules; Microwave spectra; Molecular parameters; Radio astronomy; Rotational transitions; *J. Phys. Chem. Ref. Data 3*, No. 1, 211-219 (1974), SP305-6.

Water; Manometer; Precision manometer; Pressure;  $p$ - $t$  relation;  $p$ - $t$  relation of water; Standard resistance thermometers; Temperature; Vapor pressure; Vapor pressure of water; *J.73A No. 5*, 493-496 (1969), SP305-1.

Water; Manometers; Mercury; Micrometer; Oil; U-tube; Vacuum measurement; *9413*, SP305.

Water; Millimeter waves; Stark effect; *J.76A No. 5*, 521-528 (1972), SP305-4.

Water; Resistance thermometers; Temperature measuring instruments; Triple point; *13624*, SP305-5.

Water; Water quality; Accuracy; Data interpretation; Monitoring; *SP422*, pp. 91-107 (Aug. 1976), SP305-8.

Water; Wet chemical analysis; Atomic absorption analysis; Californium-252; Mahoning River; Neutron activation analysis; Pollution; Sediment; Trace elements; *SP422*, pp. 225-230 (Aug. 1976), SP305-8.

Water analyses; Water pollution; Amperometry; Chronopotentiometry; Conductivity; Coulometry; Electrochemical analysis; Polarography; Potentiometry; *13192*, SP305-5.

Water analysis; Aromatics; Gas chromatography; Isotope dilution; Olefins; *12023*, SP305-3.

Water analysis; Polarographic analysis; Trace analysis; *1041*, SP305-1.

Water analysis; Water pollution; Chemical analysis; Nitrotriacetic acid; NTA; *14622*, SP305-6.

Water analysis; Water pollution; Water pollution control; Aquatic environment; Environmental analysis; Trace analysis; *SP351*, pp. 297-430, SP305-4.

Water cement; Cement pastes; Nitrogen sorption; Pastes; *971*, SP305-1.

Water content; Water vapor adsorption; Adsorption; Compu application; Desorption; Dry weight determination; Moisture content; Surface area; *J.79A No. 4*, 565-576 (1975), SP305-7.

Water density; Water weighing; Air density; Balance; Balance calibration; Balance equilibrium; Balance sensitivity; Density; Double substitution weighing; Hydrostatic balance; Hydrostatic weighing; Silicon density; *J.71C3-254*, 179-198 (196), SP305.

Water hammer; Computer modeling; Cooldown; Cryogenic flow; Stresses; Surges; Transient flow; *NBSIR 74-366*, SP305-6.

Water heaters; Windowless buildings; Auto fuels; Energy; Highway safety; Lead; Pressure transducer; Railway safe; Silicon devices; *DIM/NBS 59*, No. 8, 169-192 (197), SP305-7.

Water in alumina; Water vapor; Alumina; Arc-image furnace; Heat of vaporization; Molten alumina; Temperature measurement; Vaporization; Vapor pressure; *9675*, SP305-1.

Water in membranes; Bound water; Cellulose-acetate membranes; Differential scanning calorimetry; Freezing of water; Membranes; Nuclear magnetic resonance; Reverse osmosis membranes; *14421*, SP305-6.

Water jet; Flow rate tests; High speed movies; Particle velocities; Vacuum tests; *SP336*, pp. 905-914, SP305-3.

Water librations; Cold neutrons; Coordination; Hydrated salts; Hydrates; Hydrogen-bonding; Neutron scattering; Vibrational spectra; *9505*, SP305.

Water molecule; Hydrate; Hydrogen bonding; Monocalcium phosphate; Monohydrate; Neutron diffraction; Phosphates; *14864*, SP305-7.

Water policy; Water resources; Cost allocation; Cost sharing; Environmental quality; Efficiency; Equity; Multiobjective; Multi-purpose projects; Regional development; *1321*, SP305-5.

Water pollution; Agriculture; Air pollution; Analytical chemistry; Biomedicine; Clinical chemistry; Electronics; Oceanography; Solid state; *SP351*, SP305-4.

Water pollution; Air pollution; Air quality; Auto emissions; Clean air and water; Environmental quality; Metal contaminants; Occupation-related air pollutants; Oil spills; Radioactive pollutants; Stratospheric air pollution; Water quality; *DIM/NBS 57*, No. 10, 225-252 (1973), SP305-5.

Water pollution; Air pollution; Laser; Light scattering; Liquid pollution; Particulate matter; *17377*, SP305-5.

Water pollution; Air pollution; Measurement; Standard reference material; *TN828*, SP305-6.

Water pollution; Amperometry; Chronopotentiometry; Conductivity; Coulometry; Electrochemical analysis; Polarography; Potentiometry; Water analyses; *13192*, SP305-5.

Water pollution; Atomic absorption; Bluegills; Cadmium; Fish; Heavy metal; Tissue; Trace element analysis; *SP422*, pp. 1063-1072 (Aug. 1976), SP305-8.

Water analysis; Water pollution; Amperometry; Chlorine monitoring; Chlorine residuals; Coulometry; Flux-monitor; *1601*, SP305-8.



Water demand in buildings; Water distributing systems; Plumbing; Plumbing research; 16226. **SP305-8.**

Water distributing systems; Plumbing; Plumbing research; Water demand in buildings; 16226. **SP305-8.**

Water distribution; Water spray; Automatic sprinkler; Corridor sprinkler systems; Discharge patterns; Spray distribution; *NBSIR 75-920. SP305-8.*

Water distribution; Water spray; Automatic sprinklers; Bibliography; Droplet size; Fire suppression; Spray nozzles; Spray patterns; Test methods; *NBS-GCR-76-72. SP305-8.*

Water filtration; Water sampling apparatus; Anodic stripping voltammetry; Flameless atomic absorption; Interstitial water; Lake Superior chemical analysis; Trace element water analysis; *SP422*, pp. 1073-1088 (Aug. 1976). **SP305-8.**

Water hardness; Corrosion; Corrosion control; Metallic piping; Nondestructive evaluation; Survey; *NBSIR 75-923. SP305-8.*

Water heaters; Combination refrigerator-freezers; Consumer information; Efficiency; Energy labeling; Room air conditioners; 15888. **SP305-8.**

Water heaters; Energy efficient products; Experimental Technology Incentives Program; Life cycle costing; Procurement experiments; *NBS-GCR-ETIP 76-14. SP305-8.*

Water heaters; Energy-efficient products; Experimental Technology Incentives Program; Life-cycle costing; Procurement experiments; *NBSIR 76-983. SP305-8.*

Water heating; Air leakage; Building design; Energy conservation; Fenestration; HVAC systems; Illumination; Insulation; Lighting; Performance standard; Thermal performance; Ventilation; *NBSIR 74-452. SP305-8.*

Water phantom; Absorbed dose; Cobalt-60 gamma radiation; Computation check; Dose interpretation; Mailings; Results; Therapy departments; Thermoluminescence dosimeters; Uncertainty; *J. Res. 80A* No. 4, 663-668 (1976). **SP305-8.**

Water phantoms; Absorbed dose; Calorimetry; Dose distributions; Dosimetry; Electron beams; Holography; Interferometry; 15852. **SP305-8.**

Water pollution; Adsorption; Nonbiological transformation; Nonbiological transport; Pollutant photochemistry; Pollutants; Soil pollution; Solar spectrum; *NBSIR 76-1130. SP305-8.*

Water pollution; Amperometry; Chlorine monitoring; Chlorine residuals; Coulometry; Flux-monitor; Water analysis; 16082. **SP305-8.**

Water pollution; Aqueous systems; Bibliography; Biochemical systems; Enthalpy data; Entropy data; Equilibrium data; Gibbs energy data; Heat capacity data; Partial molal properties; Thermochemistry; Thermodynamics; Review articles; *SP454. SP305-8.*

Water pollution; Baseline studies; Fresh water sampling; Sampling device; Sea water sampling; Trace organic analysis; 15099. **SP305-7.**

Water pollution; Chemical analysis; Nitritotriacetic acid; NTA; Water analysis; 14622. **SP305-6.**

Water pollution; Cost sharing; Efficiency; Equity; Financing; Nonplant treatment; Sewage treatment; User fees; *NBSIR 74-479. SP305-6.*

Water pollution; Detergent; Nitritotriacetic acid; 12713. **SP305-4.**

Water pollution; Gas chromatography-mass spectrometry; Hydrocarbons; Petroleum; 16344. **SP305-8.**

Water pollution; Water pollution control; Aquatic environment; Environmental analysis; Trace analysis; Water analysis; *SP351*, pp. 297-430. **SP305-4.**

Water pollution; Water resources; Cost sharing; Efficiency; Environment; Financing; Grants; Pollution abatement; Wastewater; 15810. **SP305-8.**

Water pollution; Water resources; Cost sharing; Economic efficiency; Environment; Equity; Financing; Grants; Pollution abatement; User fees; Wastewater; 16564. **SP305-8.**

Water pollution; X rays; Air pollution; Camera guidelines; Computerized elections; Dental fillings; Metre; Ozone problem; Police communications; *DIMS/NBS 59*, No. 5, 97-120 (1975). **SP305-7.**

Water pollution; X-ray fluorescence; Air pollution; Atomic absorption; Electron microprobe; Emission spectroscopy; Environmental analysis; Industrial effluents; Ion-selective electrodes; Nuclear activation analysis; Particulate analysis; Polarography; 13783. **SP305-5.**

Water pollution control; Aquatic environment; Environmental analysis; Trace analysis; Water analysis; Water pollution; *SP351*, pp. 297-430. **SP305-4.**

Water quality; Accuracy; Data interpretation; Monitoring; Water; *SP422*, pp. 91-107 (Aug. 1976). **SP305-8.**

Water quality; Water pollution; Air pollution; Air quality; Auto emissions; Clean air and water; Environmental quality; Metal contaminants; Occupation-related air pollutants; Oil spills; Radioactive pollutants; Stratospheric air pollution; *DIM/NBS 57*, No. 10, 225-252 (1973). **SP305-5.**

Water repellent coatings; Chemical lasers; Infrared materials; Laser windows; Multiphonon absorption; Optical absorption; *SP462*, pp. 45-49 (Dec. 1976). **SP305-8.**

Water repellent materials; Accelerated weathering; Durability of waterproofing materials; Masonry; Performance criteria; Waterproofing materials; *TN883. SP305-7.*

Water resistance; Wear; Carpets; Cleanability; Conducting; Durability; Flooring; Identification; Resilience; Slip resistance; Static charge; Test methods; *SP361, Vol. 1*, pp. 799-806. **SP305-4.**

Water resources; Cost sharing; Efficiency; Equity; Recreation; Redistribution of income; 15363. **SP305-7.**

Water resources; Cost sharing; Efficiency; Environment; Financing; Grants; Pollution abatement; Wastewater; Water pollution; 15810. **SP305-8.**

Water resources; Cost sharing; Economic efficiency; Environment; Equity; Financing; Grants; Pollution abatement; User fees; Wastewater; Water pollution; 16564. **SP305-8.**

Water reuse; Community services; Cooling; Electric power; Energy conservation; Heating; Incineration; Integrated utility systems; Resource conservation; Utilities; Utility services; 16153. **SP305-8.**

Water sampling; Contamination; Geological sample; Rocks and minerals; Sample preparation; Sampling; Trace analysis; *SP422*, pp. 285-297 (Aug. 1976). **SP305-8.**

Water sampling apparatus; Anodic stripping voltammetry; Flameless atomic absorption; Interstitial water; Lake Superior chemical analysis; Trace element water analysis; Water filtration; *SP422*, pp. 1073-1088 (Aug. 1976). **SP305-8.**

Water spray; Automatic sprinkler; Corridor sprinkler systems; Discharge patterns; Spray distribution; Water distribution; *NBSIR 75-920. SP305-8.*

Water spray; Automatic sprinklers; Bibliography; Droplet size; Fire suppression; Spray nozzles; Spray patterns; Test methods; Water distribution; *NBS-GCR-76-72. SP305-8.*

Water standard; Mercury; Stabilization; Standard reference material; Trace element; 15458. **SP305-7.**

Water supply; Backflow; Backflow preventers; Back pressure; Back-siphonage; Cross connections; Health hazard; Potable water; Vacuum breaker; *NBSIR 76-1070. SP305-8.*

Water tight; Bridge; Deep-sea thermometer; High pressure; Oceanographic thermometer; Platinum resistance thermometer; Pressure; Pressure intensifier; Pressure seal; Pressure vessel; Resistance; Resistance thermometer; Test; Thermometer; Thermometer leads; Thermostated bath; *TN894. SP305-8.*

Water treatment; Anodes; Cathodic protection; Coatings; Corrosion; Deterioration; Inhibitors; Materials selection; Non-metallics; Rectifiers; *B5566*, pp. 42-51. **SP305-7.**

Water vapor; Absorption; Drying; Phosphorus pentoxide; *NBSIR 74-631. SP305-7.*

- Water vapor; Adsorption; Dental materials; Hysteresis; Sorption; Surface area; Teeth; *13321. SP305-5.*
- Water vapor; Air constituents; Boyle temperature; Deuterium; Hydrogen; Intermolecular potential; Inversion temperature; Methane; Noble gases; Potential parameters; Second virial coefficient; Third virial coefficient; *13108. SP305-5.*
- Water vapor; Alumina; Arc-image furnace; Heat of vaporization; Molten alumina; Temperature measurement; Vaporization; Vapor pressure; Water in alumina; *9675. SP305-1.*
- Water vapor; Atmospheric water vapor; Calculated slant path; Ratio model; *9614. SP305-1.*
- Water vapor; Calibration; Frost-point; Generator; Humidity; *J.77A No. 5, 671-677 (1973). SP305-5.*
- Water vapor; Concentration of saturated water vapor in air; Enhancement factor; Moist air; Moisture content of saturated air; Saturated air; Solubility of water vapor in air; *J.77A No. 1, 115-131 (1973). SP305-5.*
- Water vapor; Diffusion; Equilibrium; Evaporation; Humidity; Humidity generator; Laminar flow; Saturation; *J.78A No. 1, 49-51 (1974). SP305-6.*
- Water vapor; High cirrus; Fourier spectroscopy; Submillimeter waves; *11885. SP305-3.*
- Water vapor; Humidity; Humidity measurement system; Measurement of humidity; Measurement of moisture; Moisture; Moisture measurement system; *NBSIR 75-933. SP305-8.*
- Water vapor; Humidity; Hygrometry; Moisture; *12430. SP305-4.*
- Water vapor; Humidity measurement; Moisture; Standard; *14727. SP305-7.*
- Water vapor; Interaction virial coefficients; Moist air; Second virial coefficient; Virial coefficients; *J.77A No. 1, 133-147 (1973). SP305-5.*
- Water vapor; Steam; Virial coefficients; Clausius-Clapeyron equation; Saturation vapor pressure over water; Vapor pressure; Vapor pressure of water; *J.75A No. 3, 213-230 (1971). SP305-3.*
- Water vapor; Weathering—artificial and natural; Yellowing; Atmospheric pollutants; Color—difference and representation; Impact resistance; Plastics; Rigid polyvinyl chloride (PVC); Test methods; Ultraviolet (UV) radiation; *SP361, Vol. 1, pp. 751-760. SP305-4.*
- Water vapor; Work function; Adsorption; Hydrogen evolution; Polycrystalline tungsten; Room temperature; Ultra-high vacuum; *11563. SP305-2.*
- Water vapor adsorption; Adsorption; Computer application; Desorption; Dry weight determination; Moisture content; Surface area; Water content; *J.79A No. 4, 565-576 (1975). SP305-7.*
- Water vapor adsorption; Adsorption theory; Aggregate, adsorption by; Collagen; Dental materials; Dentin; Enamel; Surface area; Teeth; *14966. SP305-7.*
- Water vapor concentration; Wavelength; Wavenumber; Aerosol; Air mass; Ozone; Solar radiation; Spectral distribution; *9525. SP305.*
- Water vapor condensation; Accelerated corrosion; Atmospheric corrosion; Corrosion mechanisms; Humidity cabinet; Laboratory corrosion apparatus; Photomicrography; Reflectometry; Sulfur dioxide; Thermoelectric heat pump; *9990. SP305-1.*
- Water vapor density; Angular scatter; Atmospheric fine structure; Dot angles; Radar returns; Radio path-length variations; Refractive index; *10232. SP305-1.*
- Water vapor discharge; Water vapor laser; Infrared laser; Vibrational excitation; *13623. SP305-5.*
- Water vapor laser; Absolute frequency measurements; Laser frequency synthesis; *15534. SP305-7.*
- Water vapor laser;  $g$  Factor; Laser magnetic resonance; NO; Spin-orbit coupling constant; *12895. SP305-4.*
- Water vapor laser; Infrared laser; Vibrational excitation; Water vapor discharge; *13623. SP305-5.*
- Water vapor measurement; Aluminum oxide sensor; Humidity; Humidity sensor; Hygrometer; Measurement of frost point; Moisture measurement; *TN824. SP305-6.*
- Water vapor measurement; "Brady Array" sensors; Elect. hygrometer; Humidity; Humidity sensor; Moisture measurement; Relative humidity; *NBSIR 74-477. SP305-6.*
- Water vapor permeability; Absorption, water; Adsorption water vapor; Leather; Permeation; *9465. SP305.*
- Water vapor permeance; Abrasion; Adhesion; Colorfastness; Covering; Materials; Flash point; Flame spread; Impact resistance; Lead paint poisoning; Materials; Performance; Properties; Scratch resistance; Smoke generation; Toxic combustion products; *TN808. SP305-5.*
- Water vapor-air mixtures; Chemical association; Lennard-Jon potential parameters; Virial coefficients; *J.71A3-454, 21 224 (1967). SP305.*
- Water vapor-air mixtures; Chemical association; Lennard-Jon potential parameters; Third interaction virial coefficient; Virial coefficients; *J.79A No. 6, 775-776 (1975). SP305-7.*
- Water wash paint removal; Cost analysis; Housing; Lead based paint; Lead poisoning; Surface preparation; Surface refinishing; *NBSIR 74-438. SP305-6.*
- Water waves; Wave damping; Waves, wind stress on; Wind setup; Wind-wave interaction; Wind waves; *9865. SP305-1.*
- Water weighing; Air density; Balance; Balance calibration; Balance equilibrium; Balance sensitivity; Density; Doub substitution weighing; Hydrostatic balance; Hydrostatic weighing; Silicon density; Substitution balance; *J.71C3-25 179-198 (1967). SP305.*
- Water. 52 and 1962; Carbon dioxide; Frost; Infrared; Spectral reflectance; *9829. SP305-1.*
- Water-based paints; Asphaltic tile adhesives; Cement water based paints; Concrete surfaces; Paints; *10134. SP305-1.*
- Water-drip; Drop generator; Liquid drop; *TN776. SP305-5.*
- Water-flow regulation; Performance characteristics; Refrigeration accessories; Valves; *13549. SP305-5.*
- Waterproofing materials; Water repellent materials; Accelerated weathering; Durability of waterproofing material; Masonry; Performance criteria; *TN883. SP305-7.*
- Water-retarding; Accelerating concrete admixtures; Concrete admixtures; Set-retarding; *9719. SP305-1.*
- Waters, lead in; Accuracy of atomic absorption analytic techniques; Accuracy of isotope dilution analytic techniques; Errors in lead analyses; Lead; Lead contamination evaluation and control; Lead in animals and plants; Pollution, lead; *SP422, pp. 321-351 (Aug. 1976). SP305-8.*
- Water-spray repelling; Components; Dirt repelling; Evaluation; Feed-back; Open system; Performance requirement; Scratch resistance; Testing; *SP361, Vol. 1, pp. 529-534. SP305-4.*
- Water-thinned; Application; Coatings; Coating systems; Corrosion-inhibiting; Federal specifications; Fire-retardant Lacquer; Latex; Multicolor; Organic coatings; Paint; Pigments; Polymers; Properties; Resins; Selection; Substrate; *B557. SP305-1.*
- Watson's lemma; Airy integral; Asymptotics; Error bounds; Gamma function; Saddle-points; Steepest descents; *1170. SP305-2.*
- Watson's lemma; Asymptotic approximations; Error analysis; Generalized integrals; Special functions; Stationary phase; *14099. SP305-6.*
- Watt-hour meter; Calibration; Current comparator; Electric energy unit; Metrology; Standard; Unit; Watt-hour meter calibration; *14881. SP305-7.*
- Watt-hour meter; Electric energy; Electricity; Electric power; Measurement assurance; Transport standard; *TN930. SP305-8.*
- Watt-hour meter calibration; Watt-hour meter; Calibration; Current comparator; Electrical energy unit; Metrology; Standard Unit; *14881. SP305-7.*

- Watt-hour meters; Code; Definitions; Demand meters; Electricity metering; Performance requirements; Standards; Test methods; 15829. **SP305-8.**
- Wattmeter; Analog-to-digital conversion; Digital; Electricity; Electric power; Measurement; Sampling; 14878. **SP305-7.**
- Wattmeter; Analog-to-digital conversion; Digital; Electricity; Electric power; Measurement; Sampling; Simulation; *TN870*. **SP305-7.**
- Wattmeter; Opamp; Phase-sensitive detector; Power-factor; Quadrature; Three-voltmeter method; 12848. **SP305-4.**
- Wattmeter; Phase-sensitive detector; Power-factor; Quadrature; Three-voltmeter method; 13047. **SP305-4.**
- Wave damping; Waves, wind stress on; Wind setup; Wind-wave interaction; Wind waves; Water waves; 9865. **SP305-1.**
- Wave equations; Causality; High spin fields; Inhomogeneous Lorentz group; Relativistic fields; *Monogr. 154*. **SP305-8.**
- Wave field; Wave packet; X-ray diffraction; Atom; Displacement; Distorted crystal; Energy flow; Finite beam; Theory; 11031. **SP305-2.**
- Wave function; Correlations; Neutrons; Pairing; Quartetting; Shell-model; Structure; 12851. **SP305-4.**
- Wave functions; Correlation; Energy levels; Oscillator strengths; Spectroscopy; 13928. **SP305-6.**
- Wave functions; Electronic density of states; Hyperfine fields; Knight shift; Nuclear magnetic resonance; Susceptibility; *SP233*, pp. 601-642. **SP305-4.**
- Wave functions; Electronic density of states; Hyperfine fields; Knight shift; Nuclear magnetic resonance; Susceptibility; *J74A No. 4*, 569-610 (1970). **SP305-2.**
- Wave functions; Energy levels; Oscillator strengths; Superposition of configurations; 11606. **SP305-2.**
- Wave functions; Ions; Oscillator strengths; Quantum mechanics; Spectroscopy; Transition probabilities; 16209. **SP305-8.**
- Wave functions; Single particle shell model; Eigenvalues; Eigenfunctions; Energy levels; *TN410*. **SP305.**
- Wave functions of  $\text{Fe}^{+++}$ ; Energy levels of  $\text{Fe}^{+++}$  in  $\text{Al}_2\text{O}_3$ ; Iron doped  $\text{Al}_2\text{O}_3$ ; Magneto elastic tensor; Paramagnetic resonance; Quadrupole transitions; Spin hamiltonian; *J73A No. 2*, 241-268 (1969). **SP305-1.**
- Wave functions of  $\text{Gd}^{+++}$ ; Corundum; Spin Hamiltonian; Energy levels of  $\text{Gd}^{+++}$  in  $\text{Al}_2\text{O}_3$ ; Quadrupole transitions; Transition probabilities; *J75A No. 5*, 493-523 (1971). **SP305-3.**
- Wave numbers; Xenon; Argon; Extraphotographic region; Infrared emission spectra; Intensities; Neon; Wavelengths; Wavelength standards; *J. Phys. Chem. Ref. Data* 2, No. 3, 519-530 (1973). **SP305-6.**
- Wave optics; Diffraction theory; Lattice constants; Measurements; X-ray interferometry; 12285. **SP305-3.**
- Wave packet; X-ray diffraction; Atom; Displacement; Distorted crystal; Energy flow; Finite beam; Theory; Wave field; 11031. **SP305-2.**
- Wave propagation; Characteristics; Impact; Linear viscoelasticity; Partial differential equations; Stress waves; *J70BA-187*, 257-264 (1966). **SP305.**
- Wave propagation; Dashpot model filament; Filaments; Linear model; Model filament; 10079. **SP305-1.**
- Wave propagation; Dilatation centers; Lattice statics; Non-local theories; Solid mechanics; *SP317*, pp. 729-736. **SP305-3.**
- Wave propagation; Waves in strings; Characteristics; Finite-difference equations; Linear viscoelasticity; Partial differential equations; Transverse impact; *J72B No. 3*, 201-214 (1968). **SP305-1.**
- Wave propagation in stochastic media; Crystal dynamics; Defects; Disordered crystals; Multiple scattering; 11439. **SP305-2.**
- Wave scattering; Weber functions; Asymptotic approximations; Connection formulas; Error bounds; Ordinary differential equations; Parabolic cylinder functions; Turning points; 14946. **SP305-7.**
- Wave transmission in random media; Harmonic crystal; Heat transport; Isotopic disorder; Kapitza resistance; Scattering theory in one-dimension; Statistical mechanics; Thermal conduction; Thermal transport; Transport coefficient; 12808. **SP305-4.**
- Waveform; Waveguide junction; Admittance; Antenna; Attenuator; Bolometer; Calorimetry; Horn; Impedance; Interferometry; Measuring system; Phase; Power; Radiometry; Resonant cavity; Voltage; *SP300, Volume 4*. **SP305-2.**
- Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM Metrology; Field strength; Impedance; Noise; Phase; Power; Pulsed quantities; Squids; Transmission lines; *NBSIR 74-395*. **SP305-7.**
- Waveform analysis; Waveguides; Antenna parameters; Attenuation; Automated measurements; EM metrology; Field strength; Impedance; Laser parameters noise; Optical electronics; Phase; Power; Pulsed quantities; Squids; Transmission lines; *NBSIR 75-818*. **SP305-7.**
- Waveform distortion; Alkali-halides; Alkaline-earth fluorides; Bulk damage; Focal spot diameter; Inclusion damage; Interference ripples; Pulsed DF laser damage; Sapphire; Scattering; *SP462*, pp. 136-144 (Dec. 1976). **SP305-8.**
- Waveform distortion; ZnSe; KCl; NaCl; Pulsed  $\text{CO}_2$  TEA laser damage; Transmitted pulse; *SP435*, pp. 107-117 (Apr. 1976). **SP305-8.**
- Wavefront deformation; Interference photographs; Photographs; 10193. **SP305-1.**
- Wavefront shearing interferometer; Coherence; Coherence measurement; Interferometry; 12321. **SP305-3.**
- Wavefront shearing interferometer; Interferometer; Prism interferometer; 10195. **SP305-1.**
- Wavefront shearing interferometer; Aberration of telescopes; Interferometer; Shearing interferometer; Telescopes; 11110. **SP305-2.**
- Wave-front shearing interferometry; Impulse response; Lens aberrations; Optical transfer function; Partial coherence; Pupil function; 15396. **SP305-7.**
- Wave-functions; A-elements; A-site atoms; Band structure; B-elements; D-electron; Electron-compound; 14202. **SP305-6.**
- Wavefunctions; Atomic energy levels; Oscillator strengths; Superposition of configurations; 10294. **SP305-1.**
- Wavefunctions; Atomic term value; Oscillator strengths; *J71A2-448*, 163-168 (1967). **SP305.**
- Wavefunctions; Multiplet strength; Self-consistent field; Term values; *J71A2-447*, 157-162 (1967). **SP305.**
- Wavefunctions; Multiplet strengths; Superposition of configurations; 10447. **SP305-1.**
- Wavefunctions; W.K.B; Atomic lines; Band strengths; Broadening; Continuum-continuum transitions; Diatomic molecules; Emission absorption; Interaction potential; Pressure broadening; Quantum mechanics; 10492. **SP305-1.**
- Waveguide; Air lines; Coaxial; Impedance; Measurements; Standards; Transmission line; 9809. **SP305-1.**
- Waveguide; Attenuation; Coaxial; Measurements; Standards; 10044. **SP305-1.**
- Waveguide; Coaxial line; Impedance standard; Reflection coefficient standard; VSWR standard; 14080. **SP305-6.**
- Waveguide; Controlled small reflections; Mismatch; Reflector posts; *J72C No. 3*, 197-201 (1968). **SP305-1.**
- Waveguide; Electron; Energy loss; Linear accelerator; Short pulse; Transient beam-loading; 11369. **SP305-2.**
- Waveguide; Fiber optics; GaAs; Impulse; Laser; Optics; Picosecond; Pulse; 14004. **SP305-6.**
- Waveguide; Microwave; Reflection coefficient; Return loss; Sliding short; Shorted termination; *TN602*. **SP305-3.**
- Waveguide; Waveguide discontinuities; Automatic network analyzers; Coaxial; Coaxial line step discontinuities; Group delay; Scattering coefficients; Standards; 2-ports; *TN657*. **SP305-6.**

- Waveguide, adjustable width; Weathering test; Wheel-shaft angle, shifting during rotation; Wind vane, damped; Accelerated weathering test; Acoustic distortion, cancelling; Averaging wind vane; Cryogen density, measuring; Distortion-cancelling loudspeakers; *TN536. SP305-2.*
- Waveguide boundary problem; Analytic function; Cauchy principle value; Hilbert problem for two unknowns; Singular integral equation; *J. Res. 80B No. 3, 403-414 (1976). SP305-8.*
- Waveguide cavity; IR; Laser, optically pumped; *15196. SP305-7.*
- Waveguide discontinuities; Automatic network analyzers; Coaxial; Coaxial line step discontinuities; Group delay; Scattering coefficients; Standards; 2-ports; Waveguide; *TN657. SP305-6.*
- Waveguide impedance; Impedance standard; Reflection coefficient; Reflectometers; Standing-wave ratio; *9564. SP305-1.*
- Waveguide joints; Waveguide theory; Attenuation definitions; Attenuation measurement; Barretter mount efficiency; Coaxial connectors; Impedance measurement; Microwave network theory; Mismatch errors; Phase shift-measurement; Power measurement; *Monogr. 137. SP305-5.*
- Waveguide joints; Woven metal; Electrical measurements; Fluid pressure seal; Pressed woven metal; Radiofrequency; *9765. SP305-1.*
- Waveguide junction; Admittance; Antenna; Attenuator; Bolometer; Calorimetry; Horn; Impedance; Interferometry; Measuring system; Phase; Power; Radiometry; Resonant cavity; Voltage; Waveform; *SP300, Volume 4. SP305-2.*
- Waveguide junction; Interferometer; Microwave; Multiple reflections; Speed of light; *10201. SP305-1.*
- Waveguide junction; Matrix description of waveguide junctions; Microwave network analysis; *10660. SP305-1.*
- Waveguide junction; Waveguide n-port; Admittance matrix; Impedance concepts; Impedance matrix; Scattering matrix; *10204. SP305-1.*
- Waveguide junctions; Compensation theorems; Immittance-matrix elements; Perturbation theorems; *9834. SP305-1.*
- Waveguide junctions; Matrix elements; Perturbation approach; *10253. SP305-1.*
- Waveguide n-port; Admittance matrix; Impedance concepts; Impedance matrix; Scattering matrix; Waveguide junction; *10204. SP305-1.*
- Waveguide, precision fabrication; Waveguide, adjustable width; Weathering test; Wheel-shaft angle, shifting during rotation; Wind vane, damped; Accelerated weathering test; Acoustic distortion, cancelling; Averaging wind vane; Cryogen density, measuring; *TN536. SP305-2.*
- Waveguide short-circuit; Coaxial short-circuit; Impedance standards; Microwave; Return loss; *11251. SP305-2.*
- Waveguide standards; 2-port standards; Automatic measurement; Coaxial standards; Network parameters; Reflection coefficient; Scattering coefficients; Transmission coefficient; *14739. SP305-7.*
- Waveguide theory; Antenna parameters; Attenuation; Current; Electromagnetic measurements; Field strength; Impedance; *13801. SP305-5.*
- Waveguide theory; Attenuation definitions; Attenuation measurement; Barretter mount efficiency; Coaxial connectors; Impedance measurement; Microwave network theory; Mismatch errors; Phase shift-measurement; Power measurement; Reflectometers; *Monogr. 137. SP305-5.*
- Waveguide tuner; Capacitive screw tuner; Impedance transformer; *TN393. SP305-2.*
- Waveguide-below-cutoff; Absolute (unambiguous) readout; Piston; Precision attenuator; Sensor; *NBSIR 74-394. SP305-7.*
- Waveguide-below-cutoff; Absolute (unambiguous) readout; Piston; Precision attenuator; Sensor; *NBSIR 76-833. SP305-8.*
- Waveguide-below-cutoff attenuator; High-power impedance matching; Mode filters; Negative current feedback; *1289. SP305-4.*
- Waveguides; Antenna parameters; Attenuation; Automatic measurements; EM Metrology; Field strength; Impedance; Noise; Phase; Power; Pulsed quantities; Squids; Transmission lines; Waveform analysis; *NBSIR 74-395. SP305-7.*
- Waveguides; Antenna parameters; Attenuation; Automatic measurements; EM metrology; Field strength; Impedance; Laser parameters noise; Optical electronics; Phase; Power; Pulsed quantities; Squids; Transmission lines; Waveform analysis; *NBSIR 75-818. SP305-7.*
- Wavelength; Bar code reader; Filters; Optical wedge; Photodetector; Relative spectral output; *NBSIR 74-580. SP305-7.*
- Wavelength; Conversion factor; Interferometer; Lattice repeat distance; X-ray; *14232. SP305-6.*
- Wavelength; Crystal; Microscopic determination; Optical properties; *10047. SP305-1.*
- Wavelength; Energy levels; Ionization potential; Nickel; Spectral series; Spectroscopy; *J.75A No. 4, 335-336 (1971). SP305-3.*
- Wavelength; Energy levels; Ionization potential; Nickel; Spectral series; Spectroscopy; *J.74A No. 6, 801-855 (1970). SP305-2.*
- Wavelength; Energy levels; Silicon; Spectroscopy; Standard Vacuum ultraviolet; *10001. SP305-1.*
- Wavelength; Frequency-stabilized; Helium-neon; Krypton 8 lamp; Lamb dip; Laser; *10403. SP305-1.*
- Wavelength; Fringe; Interferometer; Laser; Optical; Photoelectric; Precision; Scanning; Stability; Standard; *9942. SP305-1.*
- Wavelength; Melting point; Molybdenum; Radiance temperature; *15557. SP305-7.*
- Wavelength; Wavelength standards; Interferometry; Laser; Methane; Saturated absorption; *13228. SP305-5.*
- Wavelength; Wavenumber; Aerosol; Air mass; Ozone; Solar radiation; Spectral distribution; Water vapor concentration; *9525. SP305.*
- Wavelength; Zirconium; Molybdenum; Niobium; Spectra; Ultraviolet; *16425. SP305-8.*
- Wavelength accuracy; Accuracy in spectrophotometry; Glass filters; Spectral bandpass; Spectrophotometry; Standard reference materials; Stray radiation; Testing of spectrophotometers; Transmittance (absorbance) accuracy; *SP260-51. SP305-7.*
- Wavelength accuracy; Bandwidth; Calibration; Errors in spectrophotometry; Interferences; Multiple reflections; Photometric linearity; Polarization; Sample characteristics; Straylight; *J. Res. 80A No. 4, 609-624 (1976). SP305-8.*
- Wavelength calibration; Averaging spheres; High accuracy transmittance; Light averaging devices; Linearity; Photometric precision; Reference spectrophotometer; Ultraviolet; *TN913. SP305-8.*
- Wavelength comparison; Interferometer; Laser; Optical frequency; Optical heterodyne; *15887. SP305-8.*
- Wavelength dependence; Multilayer dielectric mirror; Optical absorbance; Reflectance; Scattering; Temperature dependence; *SP435, pp. 230-235 (Apr. 1976). SP305-8.*
- Wavelength dependence of damage; Breakdown starting time; Electron avalanche; Probabilistic nature of damage; Surface damage; *SP372, pp. 58-69. SP305-4.*
- Wavelength measurement; Atomic energy levels; Atomic theory; Autoionization; Helium; *12380. SP305-3.*
- Wavelength measurement; Double stars, measurement; Expansion measurements; Lens and mirror testing; Optical engineering; Optical surfaces; Precision measurements; Refractive indices; Surface plate testing; Temperature measurement; *10599. SP305-1.*
- Wavelength modulation; Graphite furnace atomic emission spectrometry; Repetitive wavelength scanning; *15954. SP305-8.*



- Wavelength scale; Errors in spectrophotometry; Photometric scale; Slit width; Spectral transmission; Spectrophotometer standards; Stray light; *J. Res.* **80A** No. 4, 625-630 (1976). **SP305-8.**
- Wavelength stability; Coherence; Interferometry; Lasers; Length measurement; Length standards; **11225. SP305-2.**
- Wavelength stabilization; Laser wavelength standards; Saturated molecular absorption; **10969. SP305-2.**
- Wavelength standard; Laser; Methane; Pressure broadening; Saturated molecular absorption; **10826. SP305-1.**
- Wavelength standard; Laser; Neon; Isotope shift; Saturated absorption; **11118. SP305-2.**
- Wavelength standards; Atomic frequency standards; Fundamental standards; Lord Kelvin; Maxwell; Natural standards; **14522. SP305-6.**
- Wavelength standards; Cross sections; Draft Report IAU Commission 14; International Astronomical Union; Spectroscopic data; Transition probabilities; **11796. SP305-2.**
- Wavelength standards; Hollow cathode; Iron; Neon; **179A No. 1, 17-69 (1975). SP305-7.**
- Wavelength standards; Interferometry; Laser; Methane; Saturated absorption; Wavelength; **13228. SP305-5.**
- Wavelength standards; Laboratory spectra; Molecular spectra; Solar spectrum; Standards; wavelength; Transition probabilities; **10588. SP305-1.**
- Wavelength standards; Secondary standards in thorium spectrum; Standards of wavelength; Thorium; Thorium standards of class B; **11739. SP305-2.**
- Wavelength standards; Standard wavelengths; Transition probabilities of spectral lines; **9952. SP305-1.**
- Wavelength standards; Wave numbers; Xenon; Argon; Extraphotographic region; Infrared emission spectra; Intensities; Neon; Wavelengths; *J. Phys. Chem. Ref. Data* **2**, No. 3, 519-530 (1973). **SP305-6.**
- Wavelength standards; WWV; WWVB; WWVL; WWVL; Atomic clocks; Atomic standards; Clock dissemination; Crystal oscillators; Definition of second; Flicker noise; Frequency; Frequency stability; Lasers; Length standards; Measurement standards; **SP350. SP305-3.**
- Wavelengths; Aluminum; Energy levels; Spectra; Ultraviolet; **14011. SP305-6.**
- Wavelengths; Aluminum; Spectra; **15008. SP305-7.**
- Wavelengths; Analysis; Atomic absorption; Beer-Lambert law; Continuum source; Curve of growth; Oscillator strength; **10684. SP305-1.**
- Wavelengths; Atomic energy levels; Atomic spectrum; Copper; Doubly ionized copper; Electron configuration; Ionization potential; **179A No. 3, 497-521 (1975). SP305-7.**
- Wavelengths; Atomic spectra; Chlorine; Spectroscopy; **11426. SP305-2.**
- Wavelengths; Atomic spectra; Energy levels; Spectroscopy; Spectrum of tungsten; Tungsten; **172A No. 6, 609-755 (1968). SP305-1.**
- Wavelengths; Atomic spectra; Lifetimes; Oscillator strengths; **12985. SP305-4.**
- Wavelengths; Barium; Cerium; Cesium; Ionization energy; Lanthanum; **15068. SP305-7.**
- Wavelengths; Barium; Cesium; Lanthanum; Spectra; Ultraviolet; **16035. SP305-8.**
- Wavelengths; Carbon; Copper; Germanium; Ritz; Silicon; Spectrum; Standards; Ultraviolet; Vacuum; **9338. SP305.**
- Wavelengths; Ce I and II; Cerium spectra; Infrared spectra; Spectra; **176A No. 3, 285-304 (1972). SP305-4.**
- Wavelengths; Cerium; Ce II; Energy levels; Spectrum; **177A No. 4, 419-546 (1973). SP305-5.**
- Wavelengths; Chlorine; Energy levels; Spectra; **14034. SP305-6.**
- Wavelengths; Energy levels; Interaction parameters; Praseodymium; Third spectrum; Vacuum ultraviolet; **173A No. 3, 333-381 (1969). SP305-1.**
- Wavelengths; Energy levels; Spectrum; Thulium; **177A No. 1, 1-43 (1973). SP305-5.**
- Wavelengths; Hafnium; Levels; Spectra; Tungsten; **15257. SP305-7.**
- Wavelengths; Iodine stabilized lasers; Krypton; Pressure broadening; Pressure shifts; Saturated absorption; **14201. SP305-6.**
- Wavelengths; Iron; Spectra; Ultraviolet; **15007. SP305-7.**
- Wavelengths; Iron; Spectra; Ultraviolet; **16133. SP305-8.**
- Wavelengths; Magnesium; Source; Spectra; Ultraviolet; **13370. SP305-5.**
- Wavelengths; Magnesium; Source; Spectra; Ultraviolet; **12962. SP305-4.**
- Wavelengths; Molybdenum; Spectra; Ultraviolet; **13085. SP305-5.**
- Wavelengths; Neon; Spectra; Ultraviolet; **12606. SP305-4.**
- Wavelengths; Niobium; Spectra; Ultraviolet; **13083. SP305-5.**
- Wavelengths; Praseodymium; Spectra; **12257. SP305-3.**
- Wavelengths; Rubidium; Spectra; Ultraviolet; **14893. SP305-7.**
- Wavelengths; Rubidium; Spectra; Ultraviolet; **15255. SP305-7.**
- Wavelengths; Spectra; Lutetium; **12461. SP305-4.**
- Wavelengths; Wavelength standards; Wave numbers; Xenon; Argon; Extraphotographic region; Infrared emission spectra; Intensities; Neon; *J. Phys. Chem. Ref. Data* **2**, No. 3, 519-530 (1973). **SP305-6.**
- Wavelengths; X-ray emission; X-ray spectrometers; Electron probe microanalyzer; **TN406. SP305.**
- Wavelengths; Ytterbium; Bismuth; Gold; Hafnium; Ionization energies; Iridium; Lead; Lutetium; Mercury; Osmium; Platinum; Rhenium; Tantalum; Thallium; Tungsten; **16420. SP305-8.**
- Wavelengths; Ytterbium; Energy levels; Spectrum; **15920. SP305-8.**
- Wavelengths; Yttrium; Spectra; Ultraviolet; **12826. SP305-4.**
- Wavelengths; Yttrium; Spectra; Ultraviolet; **15725. SP305-8.**
- Wavelengths; Yttrium; Zirconium; Molybdenum; Niobium; Rubidium; Spectra; Strontium; Ultraviolet; **12675. SP305-4.**
- Wavelengths; Yttrium; Zirconium; Spectra; Ultraviolet; **16134. SP305-8.**
- Wavelengths; Zeeman effect; Rubidium; Spectra; Ultraviolet; **13196. SP305-5.**
- Wavelengths; Zeeman effect; Rubidium; Spectra; Ultraviolet; **13662. SP305-5.**
- Wavelengths; Zeeman-effect of Th I; Energy levels; Thorium; Th I; *J. Res.* **80A** No. 2, 221-358 (1976). **SP305-8.**
- Wavelengths; Zinc; Atomic spectra; Emission spectroscopy; **11907. SP305-3.**
- Wavelengths; Zirconium; Spectra; Ultraviolet; **13084. SP305-5.**
- Wavelengths, atoms and ions; Atomic energy levels; Atomic spectra; Bibliography; Energy levels, atomic; Spectra, atomic; **SP363. SP305-4.**
- Wavelengths, carbon spectra; Atomic energy levels, carbon spectra; Atomic spectra of carbon; Carbon spectra; Multiplet tables, carbon spectra; Spectra, carbon; *NSRDS-NBS3, Section 3. SP305-3.*
- Wavelengths, hydrogen spectra H I, D, T; Atomic energy levels, H I, D, T; Hydrogen spectra, H I, D, T; Multiplet tables, H I, D, T; Spectra H I, D, T; *NSRDS-NBS3, Section 6. SP305-4.*
- Wavelengths, nitrogen spectra N I, N II, N III; Atomic energy levels, N I, N II, N III; Multiplet tables, N I, N II, N III; *NSRDS-NBS3, Section 5. SP305-7.*
- Wavelengths, nitrogen spectra Niv-Nvii; Atomic energy levels, Niv-Nvii; Nitrogen spectra, Niv-Nvii; Multiplet tables, Niv-Nvii; Spectra, Niv-Nvii; *NSRDS-NBS3, Section 4. SP305-3.*
- Wavelengths, O I; Atomic energy levels, O I; Atomic spectra, O I; Multiplet table, O I; Oxygen, first spectrum; Spectrum O I; *NSRDS-NBS3, Section 7. SP305-8.*
- Wavelengths of solar lines; Elements in sun; Equivalent widths of solar lines; Identification of solar lines; Molecules in sun; Solar spectrum; *Mono. 61. SP305.*

- Wavelengths of spectral lines; Classification of spectral lines; Intensities of spectral lines; Spectral-line intensities; Tables of spectral-line intensities; *Monogr. 145, Part I. SP305-7.*
- Wavelengths of spectral lines; Classification of spectral lines; Intensities of spectral lines; Spectral-line intensities; Tables of spectral-line intensities; *Monogr. 145, Part II. SP305-7.*
- Wavelengths of technetium; Spectra of technetium; Technetium; spectra of; *J.71A6-471, 547-565 (1967). SP305.*
- Wavelengths of Th; Classified lines of Th I and Th II; Fourier transform spectra of Th; Infrared spectra of Th; Spectra of Th; Th I and Th II; Thorium spectra; *J.78A No. 2, 247-281 (1974). SP305-6.*
- Wavelengths of Th II; Energy levels of Th II;  $g$ -values of Th II; Spectrum of Th II; Th II spectrum; Thorium; *J.78A No. 2, 163-246 (1974). SP305-6.*
- Wavelengths, Si I; Atomic energy levels; Atomic spectra Si I; First spectrum; Multiplet table; Silicon; Spectrum, Si I; *NSRDS-NBS3, Section 2. SP305.*
- Wavenumber; Aerosol; Air mass; Ozone; Solar radiation; Spectral distribution; Water vapor concentration; Wavelength; *9525. SP305.*
- Waves in fluids; Buoyant flows; Geophysical fluid flows; Inertial waves; Internal waves; Rotating fluids; Stratified fluids; *J. Res. 80B No. 3, 353-402 (1976). SP305-8.*
- Waves in strings; Characteristics; Finite-difference equations; Linear viscoelasticity; Partial differential equations; Transverse impact; Wave propagation; *J.72B No. 3, 201-214 (1968). SP305-1.*
- Waves, wind stress on; Wind setup; Wind-wave interaction; Wind waves; Water waves; Wave damping; *9865. SP305-1.*
- Waviness; Camber; Ceramic; Fired; Flatness; Ground; Lapped; Microwave; Polished; Roughness; Substrate; Surface; Thick film; Thin film; *SP348, pp. 293-300. SP305-4.*
- Wax; Dental; Flow; *11600. SP305-2.*
- Wax, inlay casting; Castings, dental, accuracy; Castings, lost wax technique; Dental materials; Gold alloys, dental; High heat casting technique; Hygroscopic expansion; Investment, dental; Thermal expansion casting technique; *SP354, pp. 61-66. SP305-4.*
- Wax-bound electrode; Amperometry; Cyclic voltammetry; Electrodeposition; Langmuir; Lead dioxide; Pyrophosphate; Temkin; *SP455, pp. 183-189 (Nov. 1976). SP305-8.*
- Waxes; Flow; Melting; Thermal expansion; *9969. SP305-1.*
- Waybill file; Programmer's documentation; Short line mileage; *16241. SP305-8.*
- Waybills; Railroad freight movements; Short-line miling system; *16241. SP305-8.*
- WC; Catalysis; Density of states; Magnetic exchange enhancement; Pt; W; *14287. SP305-6.*
- Weak acids; Acetic acid- $d_3$ ; Dissociation constant; Isotope effects; Thermodynamics of dissociation; *9976. SP305-1.*
- Weak coupling;  $^{88}\text{Sr}$ ;  $^{89}\text{Y}$ ; Elastic and inelastic electron scattering; Low lying levels; *14968. SP305-7.*
- Weak decays; CPT;  $K^0$  meson; Symmetry; Time-reversal; *12440. SP305-4.*
- Weak electrolytes; Acetic acid- $d_3$ ; Acid-base; Deuterium oxide; Dissociation constants; Emf; Ionization; Isotope effects; Thermodynamics; *9492. SP305.*
- Weak interaction; Beta decay; Carbon; Electromagnetic; Form factor; Muon; Neutrino; *13125. SP305-5.*
- Weak interaction; Lepton;  $m$ -spin; Neutrino;  $SU(2)_L \times SU(2)_R$ ; Trident production; *13127. SP305-5.*
- Weak interactions; CPT theorem; Decays; Mesons; Time reversal; *10867. SP305-2.*
- Weak interactions; Deuterium; Electron scattering; Helium-3; Helium-4; Photonicuclear; *13815. SP305-6.*
- Weak interactions; Gauge invariance; Quantum electrodynamics; Renormalization; Time-ordering operator; Vacuum polarization; *14429. SP305-6.*
- Weak lenses; Aberration integrals; Asymptotic aberration coefficients; Electron lenses; Strong lenses; Third-order aberration coefficients; Two-tube electrostatic lens; *14817. SP307.*
- Weak lenses; Focal properties; Matrix elements; Paraxial; Strong lenses; Two-tube electrostatic lens; *14151. SP305-6.*
- Weak lenses; Focal properties; Near-unity voltage ratios; Object-image curves; Paraxial; Two-tube electrostatic lens; *14170. SP305-6.*
- Weak superconductivity; Josephson effect; Phase slip; *1564. SP305-7.*
- Weakly absorbing materials; Absorption coefficients; Barometric behavior; Green's function; Heat diffusion; *J.79A No. 639-648 (1975). SP305-7.*
- Weak-signal scatter; Damage thresholds; Dielectric reflectance; Laser-induced scatter; Picosecond pulses; Spark threshold; Thin films; *SP414, pp. 39-47. SP305-6.*
- Weapon detection; Handgun detection; Metal detector; Performance standard; Security; *15306. SP305-7.*
- Weapon detection; Metal detections; Performance standard; *14680. SP305-6.*
- Weapons; Building systems; Communications equipment; Concealed objects detectors; Emergency equipment; Law Enforcement Standards Laboratory; Procurement guideline; Protective equipment; Security systems vehicles; Voluntary standards; *15325. SP305-7.*
- Weapons detection; Metal detector; *14988. SP305-7.*
- Weapons radiation; Benchmark problems; Dose distribution; Moments method; Neutron penetration; Shielding; *7N74. SP305-5.*
- Wear; Adhesion; Adsorption; Alloys; Composites; Dental; Grafting; Investments; Polymer; Resin; *NBSIR 76-109. SP305-8.*
- Wear; Adhesion; Coatings; Friction; Metal; Polymers; *SP45, pp. 3-13 (Sept. 1976). SP305-8.*
- Wear; Adhesion; Floor coverings; Organic coatings; Performance characteristics; Specifications; *11204. SP305-2.*
- Wear; Alcohol; Glass; Mechanism; Silicon carbide; *1512. SP305-7.*
- Wear; Barrier film; Chemical coatings; Failure prevention; Mechanical failure; Metal coatings; Plated coatings; Polymer coatings; Solid film lubricants; Sputtered coatings; *SP45. SP305-8.*
- Wear; Bearings; Electron diffraction; Electron microscopy; Gears; Lubrication; Particles; *NBSIR 74-474. SP305-6.*
- Wear; Carpets; Cleanability; Conducting; Durability; Flooring; Identification; Resilience; Slip resistance; Static charge; Test methods; Water resistance; *SP361, Vol. 1, pp. 799-806. SP305-4.*
- Wear; Castable refractories; Coal gasification; Deformation; Erosion; Fracture; *16600. SP305-8.*
- Wear; Chemical; Coating; Deposition; Vapor; *SP452, pp. 151-169 (Sept. 1976). SP305-8.*
- Wear; Composite resins; Composites; Dental materials; Filler; Porous glass; Radiopacity; Reinforcements; *16586. SP305-8.*
- Wear; Composite resins; Composites; Dental materials; Filler; Porous glass; Radiopacity; Reinforcements; *16587. SP305-8.*
- Wear; Composites; Friction; Graphite fiber; *J.76C Nos. 1 and 2, 41-52 (1972). SP305-4.*
- Wear; Construction; Maintenance; Passenger car tires; Safety; Tires, passenger car; *C152. SP305-2.*
- Wear; Contact lubrication; Elastohydrodynamic contact; Fatigue; Lubricant film thickness; Scuffing; *SP423, pp. 41-57 (Apr. 1976). SP305-8.*
- Wear; Corrosion; Crack-free chromium; Electroplating; Fatigue; Fatigue strength; Grinding; Hardness; Stress; Tensile strength; *SP452, pp. 56-63 (Sept. 1976). SP305-8.*
- Wear; Curing agent; Fretting; Silicone resin; Solid lubricant; Titanium; *SP452, pp. 124-131 (Sept. 1976). SP305-8.*

leak; Economic savings of failure prevention; Friction; Lubrication; Mechanical failure; Tribology; *SP423*, pp. 117-139 (Apr. 1976). **SP305-8.**

leak; Electron channeling; Iron; Metals; Plastic deformation; Surfaces; *16523*. **SP305-8.**

leak; Electron channeling; Iron; Metals; Plastic deformation; Surfaces; *NBSIR 76-992*. **SP305-8.**

leak; Fluoride films; Gears; Molybdenum disulfide; Solid lubricants; *SP452*, pp. 132-148 (Sept. 1976). **SP305-8.**

leak; Monumental brasses; Neutron activation; Preservation of historical objects; *13847*. **SP305-6.**

leak; Wear debris; X-ray analysis; Copper; Electron channeling; Electron microscope; Metals; Particle analysis; Plastic deformation; Surfaces; *NBSIR 76-1141*. **SP305-8.**

leak; Wear testing; Erosive wear; Particle impingement; Particle velocity measurement; *15778*. **SP305-8.**

leak; Wear debris; X-ray analysis; Copper; Electron channeling; Electron microscope; Metals; Particle analysis; Plastic deformation; Surfaces; Wear; *NBSIR 76-1141*. **SP305-8.**

leak; Life; Antimony trioxide; Friction; Molybdenum disulfide; Spin axis gas bearings; Sputtered coatings; Surface characterization; *SP452*, pp. 177-186 (Sept. 1976). **SP305-8.**

leak; mechanism; Alumina; Cylindrical grinding; Diamond grinding wheel; Electron microscopy; Removal mechanism; Surface damage; Surface finish; Surface grinding; *SP348*, pp. 99-112. **SP305-4.**

leak; gold; Contact lubrication; Corrosion inhibitors; Electrical contacts; Gold plate; Palladium; Polymer in gold; Porosity in gold; Solder plate; Tin-nickel alloy; Tin plate; Underplatings for gold; *SP452*, pp. 64-71 (Sept. 1976). **SP305-8.**

leak; rate; Abrasion; Brittle solids; Brittle surfaces; Chipping; Fracture; Hardness; Indentation; Residual stress; Stress analysis; *NBSIR 75-659*. **SP305-7.**

leak; rate; Abrasion; Brittle surfaces; Chipping fracture; Hardness; *16335*. **SP305-8.**

leak; rate, brass; Density, brass; Ductility, brass; Electrical resistivity, brass; Electrodeposited brass; Electroplated brass; Internal stress, brass; Mechanical properties, electrodeposited brass; Properties, electrodeposited brass; Tensile strength, brass; *15559*. **SP305-7.**

leak; resistance; Abrasion test; Bohme machine; Concrete terrazzo flooring tiles; DIN 52108; *SP361*, Vol. 1, pp. 789-797. **SP305-4.**

leak; resistance; Adhesive materials; Composites; Dental materials; Polymer grafting; Resins; Restorative materials; Sealants; *NBSIR 75-766*. **SP305-7.**

leak; resistant alloy; Auto-catalytic nickel; Auto-catalytic nickel, hardness of; Auto-catalytic nickel, wear of; Electroless nickel; Electroless nickel, hardness of; Electroless nickel, wear of; Nickel, auto-catalytic; Nickel, electroless; *SP452*, pp. 45-55 (Sept. 1976). **SP305-8.**

leak; testing; Erosive wear; Particle impingement; Particle velocity measurement; Wear; *15778*. **SP305-8.**

leak; wearing apparel; Apparel; Bedding; Beds; Blankets; Carpets; Clothing; Fabrics; Fibers; Fire; Flame; Flammability; Flammable; Floor coverings; Mattresses; Pillow cases; Pillows; Rugs; Sheets; Springs; *TN498*. **SP305-2.**

leak; wearing apparel; Carpets; Fabrics; Flammable Fabrics Act; National Advisory Committee; Procedures; Regulations; Textiles; *11105*. **SP305-2.**

leak; wearing apparel; Carpets; Flammability; Flammable Fabrics Act; Rugs; Textiles; *11443*. **SP305-2.**

leak; wearing apparel; Carpets; Flammability; Flammable Fabrics Act; Interior furnishings; National Advisory Committee; Textiles; Textile technology; *11104*. **SP305-2.**

leak; wear-resistance; Wear-tests; Cermet; Chromium plating; Codeposition, composite coating; Dispersion plating; Electroplating; Hard particles; *15317*. **SP305-7.**

leak; Wear-tests; Cermet; Chromium plating; Codeposition, composite coating; Dispersion plating; Electroplating; Hard particles; *15317*. **SP305-7.**

leak; Weather resistance; Accelerated tests; Acid resistance; Aluminum; Color; Gloss; Porcelain enamel; Steel; *13715*. **SP305-5.**

leak; Weather resistance; Acid resistance; Color; Continuity of coating; Porcelain enamel; *TN707*. **SP305-4.**

leak; Weather resistance; Acid resistance; Color; Gloss; Porcelain enamel; *BSS38*. **SP305-3.**

leak; Weather resistance; Acid resistance; Color; Gloss; PH; Porcelain enamel; Relative humidity; *BSS50*. **SP305-6.**

leak; Weather resistance; Color; Gloss; Porcelain enamel on aluminum; *13383*. **SP305-5.**

leak; Weather resistance; Color; Gloss; Porcelain enamel on aluminum; *11670*. **SP305-2.**

leak; Weather resistance; Color; Gloss; Porcelain enamel on aluminum; *BSS29*. **SP305-2.**

leak; Weather resistance; Continuity of coating; High-voltage; Porcelain enamel; *11669*. **SP305-2.**

leak; Weatherability; Antenna-support materials; Environmental degradation; Guys, nonmetallic; Marine atmospheres; Plastics, fiber-reinforced; Pultrusions; Stress-rupture testing; Sunlight; Ultraviolet radiation; *NBSIR 76-1069*. **SP305-8.**

leak; Weatherability, FRP rod; Composite materials; Fiber-reinforced-plastic rod; Glass-reinforced-polyester rod; Guys, antenna; Processing parameters, pultrusion; Pultrusion; Reinforced plastic rod; Stress rupture of FRP rod; Test methods, FRP rod; *NBSIR 74-557*. **SP305-7.**

leak; Weathering; Additive; Asphalt; Durability; Felt; Stabilizer; *BSS24*. **SP305-1.**

leak; Weathering; Agrement; Durability prediction; Economic aspects; Evaluative judgement; Need for clarity of purpose; Performance concept; Plastics in fire; Rain penetration; Robustness of construction; Technical evaluation; *SP361*, Vol. 1, pp. 491-502. **SP305-4.**

leak; Weathering; Color and gloss measurements; Colorimetric analysis; Infrared analysis; Oxidation; Plastics; Ultraviolet analysis; *10554*. **SP305-1.**

leak; Weathering; Concrete; De-icing scaling; Durability; Freezing-and-thawing; *9540*. **SP305-1.**

leak; Weathering; Xenon arc; Carbon arc; Degradation; Irradiance; Photodegradation; Plastics; Polymers; Radiation; Radiometry; Sun; *10472*. **SP305-1.**

leak; Weathering factors; Accelerated aging; Building components and materials; Climatological data; Durability; Environmental factors; Long-term tests; Short-term tests; *TN838*. **SP305-6.**

leak; Weathering of plastic siding; Building materials; Flammability of outdoor siding; Plastic material; Poly (vinyl chloride) siding; Siding, poly (vinyl chloride); *P555-72*. **SP305-4.**

leak; Weathering of plastics; Manufacturing Chemists' Association (MCS); Performance of plastics outdoors; Plastics; *13399*. **SP305-5.**

leak; Weathering, simulated; Aramid fiber rope; Breaking load, rope; Cable, aramid-fiber; End fittings, rope; Fatigue damage; Rope, aramid-fiber; Slings, cargo; Terminations, rope; *NBSIR 76-1159*. **SP305-8.**

leak; Weathering test; Wheel-shaft angle, shifting during rotation; Wind vane, damped; Accelerated weathering test; Acoustic distortion, cancelling; Averaging wind vane; Cryogen density, measuring; Distortion-cancelling loudspeakers; Grooved runway; *TN536*. **SP305-2.**

leak; Weathering tests; Non-dispersive x-ray spectrometer; Corrosion; Pinhole-type defects; Porcelain enamel; Scanning electron microscope; *13714*. **SP305-5.**

- Weathering—artificial and natural; Yellowing; Atmospheric pollutants; Color—difference and representation; Impact resistance; Plastics; Rigid polyvinyl chloride (PVC); Test methods; Ultraviolet (UV) radiation; Water vapor; *SP361*, Vol. 1, pp. 751-760. **SP305-4.**
- Weatherproof pressure probe; Wind field pressure measurements; Ambient pressure probe; Omnidirectional pressure probe; Pressure probe shroud; Static pressure; *U.S. Patent 3,950,995*. **SP305-8.**
- Weatherstripping; Caulks and sealants; Clock thermostats; Energy conservation; Insulation; Retrofitting; Storm doors; Storm windows; Tax credit; Vapor barriers; *NBSIR 75-795*. **SP305-7.**
- Web; Beams; Design criteria; Joists; Openings; Shear strength; Tests; *14663*. **SP305-6.**
- Web reinforcement; Column; Ductility; Earthquake; Reinforced concrete; Shear tests; Structural engineering; *SP444*, pp. IV-16—IV-36 (Apr. 1976). **SP305-8.**
- Webbing abrasion; Webbing degradation; Anthropomorphic dummies; Auto seat tests; Deceleration; Human kinematics; Human tests; Restraint geometry; Restraint systems; Seat belt; Sled tests; *11850*. **SP305-3.**
- Webbing degradation; Anthropomorphic dummies; Auto seat tests; Deceleration; Human kinematics; Human tests; Restraint geometry; Restraint systems; Seat belt; Sled tests; Webbing abrasion; *11850*. **SP305-3.**
- Weber functions; Asymptotic approximations; Connection formulas; Error bounds; Ordinary differential equations; Parabolic cylinder functions; Turning points; Wave scattering; *14946*. **SP305-7.**
- Weber functions; Asymptotic approximations; Error bounds; Legendre functions; Parabolic cylinder functions; Turning points; *14947*. **SP305-7.**
- Weber problem, mathematical programming; CES; Economics; Leontief; Location theory; Plant location; Production functions; Transportation; *J78B No. 2, 79-94* (1974). **SP305-6.**
- Weber's equation; Boundary-value problem; Eigenvalues; Parabolic cylinder functions; Resonance; Rotating disks; Singular perturbations; Turning-point; Viscous flow; *16459*. **SP305-8.**
- Weber's equation; Error bounds; Parabolic cylinder functions; Turning points; Uniform asymptotic approximations; *J. Res. 80B No. 4, 437-440* (1976). **SP305-8.**
- Wedge; Burgers vector; Crystal; Disclination; Dislocation; Distant parallelism; Hexagonal; *12389*. **SP305-4.**
- Wedge; Crystal; Disclination; Dislocation; Pseudopentagonal; Stacking fault; Twin; *15767*. **SP305-8.**
- Wedge; Disclination; Dislocation; Glide; Plasticity; Twist; Volterra; *13271*. **SP305-5.**
- Wedge optical surfaces; Dye laser continua; High resolution; Interferometric effects; Optical components; Organic dye lasers; *13678*. **SP305-5.**
- Wedges; Anechoic chamber design; Plane-wave tubes; *13078*. **SP305-5.**
- Weeding a scientific library; Weeding criteria; Scientists' use of literature; *12178*. **SP305-3.**
- Weeding criteria; Scientists' use of literature; Weeding a scientific library; *12178*. **SP305-3.**
- Weibull; Alumina; Surface finish; Surface treatments; *SP348*, pp. 377-388. **SP305-4.**
- Weibull analysis; Ceramics; Crack propagation; Delayed failure; Fracture; Proof testing; *NBSIR 74-486*. **SP305-6.**
- Weibull analysis; Ceramics; Crack propagation; Delayed failure; Fracture; Proof testing; *15419*. **SP305-7.**
- Weibull distribution; Abrasion; Brittle-ductile transition; Erosion; Fracture location; Ring cracking; Shaping; Size-effect; Statistical nature of strength; Ultrasonic cutting; *SP348*, pp. 119-131. **SP305-4.**
- Weighing; Apparent mass; Buoyancy corrections; Mass comparison; Mass value; True mass; *Monogr. 133*. **SP305-6.**
- Weighing; Calibration; Force; Load cells; Proving rings; Transducers; Uncertainty; *TN436*. **SP305-1.**
- Weighing; Density; Etching; Grinding; Sawing; Silicon; Standard; *NBSIR 76-1019*. **SP305-8.**
- Weighing designs; Calibration; Calibration designs; Combinatorial analysis; Difference sets; Incomplete block design; Statistical experiment designs; Tournaments; *J71B4-23*, 149-160 (1967). **SP305.**
- Weight; Cost; Cryogenic refrigerators; Efficiency; Volun; *TN655*. **SP305-6.**
- Weight; Force; Kilogram; Mass; Pound; *16394*. **SP305-8.**
- Weight; Weightlessness; Weight vs. mass; Free fall; Gravity; Mass vs. weight; *13035*. **SP305-4.**
- Weight average; Gel permeation chromatography (GPC); Linear polyethylene; Molecular weight distribution (MWD); Number average; *J76A No. 2, 163-170* (1972). **SP305-4.**
- Weight average molecular weight; Z average molecular weight; Density; Differential refractive index; Gel permeation chromatography (GPC); Light scattering; Linear polyethylene; Melt flow rate; Molecular weight distribution; Number average molecular weight; *SP260-42*. **SP305-4.**
- Weight gain; Air leakage; Cooling loads; Rating and testing; Refrigerated truck bodies; Simulated solar heating; *1026*. **SP305-1.**
- Weight loss; Active region; Aerated soil; Corrosion; Disturbed soil; Excavated; Extracted; H-piling; Instantaneous corrosion rate; Mill scale; Permafrost region; Pipe piling; Pit depth; Polarization; Sheet piling; Undisturbed soil; *Monogr. 12*. **SP305-4.**
- Weight loss; Bridge circuit; Change of pH; Instantaneous corrosion rates; Pearson equation; Pit depth; Recorder; Stern Geary equation; Synthetic sea water; *11658*. **SP305-2.**
- Weight loss; Corrosion; Corrosion rate; Disturbed soil; Instantaneous rate; Pit depth; Pitting factor; Polarization; Steel piling; Undisturbed soil; *J75C No. 2, 107-121* (1971). **SP305-3.**
- Weight test; Bubble test; Gas analysis; Helium leak test; Hermeticity; Integrated circuits; Measurement method; Microelectronics; Radioisotope test; Seals; Semiconductor devices; *SP400-9*. **SP305-6.**
- Weight vs. mass; Free fall; Gravity; Mass vs. weight; Weightlessness; *13035*. **SP305-4.**
- Weighted fit; Astrophysical interest; Centrifugal distortion; Formamide; Microwave spectrum; Quadrupole splittings; Rotational transitions; *13218*. **SP305-5.**
- Weighted means; Wild observations; Asymptotic theory; Efficiency; Median; Order statistics; Probability distributions; Robust estimators; Statistical estimation; *10229*. **SP305-1.**
- Weighting; Analysis of variance; Average (weighted); Interlaboratory evaluation; Round robin; Single classification; Statistics; Variance components; *11906*. **SP305-3.**
- Weighting; Constraints; Curve fitting; Least squares; Nonlinear; Thermodynamics; *10259*. **SP305-1.**
- Weighting; Interlaboratory comparisons; Invariance; Model precision; Precision of measurement; Repeatability; Reproducibility; Test methods; Transformations; *15909*. **SP305-8.**
- Weightlessness; Ablation; Particulate radiation; Re-entry; Space simulation; Thermal radiation; Vacuum; *SP336*. **SP305-3.**
- Weightlessness; Weight vs. mass; Free fall; Gravity; Mass vs. weight; Weight; *13035*. **SP305-4.**
- Weight-loss; Degradation; Kinetics; Oxidation; Parameter jump method; Polystyrene; Relaxation methods; Thermogravimetry; *15858*. **SP305-8.**
- Weights; Cleaning; Standards; Steam generator; Storage; Temperature equilibrium; *NBSIR 74-443*. **SP305-6.**
- Weights; Commerce; Consumers; Labeling; Measures; Packages; *10567*. **SP305-1.**
- Weights; History of measurement standards; Measures; Metric system; Standards; Units of measurement; *SP447*. **SP305-8.**



Weights; Index; Measures; National Conference; Reports; *SP377. SP305-5.*

Weights; Laboratory; Measure; Standards; States; Training; *10086. SP305-1.*

Weights; Measures; Product quality; Standards; *9807. SP305-1.*

Weights and measures; Administration, weights and measures; Conference, weights and measures; Laws, weights and measures; Technical requirements, weights and measures; *SP358. SP305-4.*

Weights and measures; Administration; Automated checkstand systems; Conference; Consumers; Laws and regulations; Metrication; Open dating; Procedures; Technical requirements; Technology; Universal product coding; *SP391. SP305-6.*

Weights and measures; Alaskan baseline study; Consumer goods; Door security; Ferrite measurement; Health hazards; Industry incentives; International program; Law enforcement; Measurement system; *DIM/NBS 58, No. 2, 25-48 (1974). SP305-6.*

Weights and measures; Auto paint; Chlorine monitor; Color measurements; Color use; Postdoctoral appointments; Retroreflectors; Semiconductor technology; Thermocouple data; Video tape; Warning lights; *DIM/NBS 58, No. 9, 193-215 (1974). SP305-6.*

Weights and measures; Benefit-cost; History; Peirce; Philosophy; Pragmatism; Research priorities; *10203. SP305-1.*

Weights and measures; Building industry; Calibration system; Centigrade/celsius; Computer; Electrical industries; Environments; Glass standards; Government intervention; Heating/cooling; Lead-paint; Metric; Pressure transducers; *DIM/NBS 60, No. 10, 1-24 (1976). SP305-8.*

Weights and measures; Calibration; Communication; Consumers; Grain moisture measurement; Laws and regulations; Measurement; Metric; Packaging and labeling; Police radar equipment; Standards; Supermarket automation; *SP442. SP305-8.*

Weights and measures; Conference, National; *M290. SP305.*

Weights and measures; Conference, weights and measures, laws; Weights and measures, regulations; Weights and measures, technical requirements; Weights and measures, history; *SP318. SP305-1.*

Weights and measures; Conference; Weights and measures, history; Weights and measures, laws; Weights and measures, regulations; Weights and measures, technical requirements; *SP297. SP305-1.*

Weights and measures; Conference; Weights and measures, history; Weights and measures, laws; Weights and measures, regulations; Weights and measures, technical requirements; *SP311. SP305-1.*

Weights and measures; Consumer metric information; International System of Units; Kitchen measurement units; Metric system; *SP430. SP305-7.*

Weights and measures; Consumer package; Exemption; Fluid measure; Labeling; Net quantity; Principal display panel; Regulations; *H108. SP305-3.*

Weights and measures; Digital indicators; Drained weight; Laws and regulations; Metrication; Metric conversion; Net weight; Package control; Petroleum products; Scales; Survey; Temperature compensation; Uniformity; *SP407. SP305-7.*

Weights and measures; International system of units; Measurement systems; Metric system; Modernized metric system; SI; *SP304, Revised October 1972. SP305-4.*

Weights and measures; International system of units; Measurement systems; Metric system; Modernized metric system; SI; *SP304A, Revised October 1972. SP305-4.*

Weights and measures; International system of units; Measurement system; Metric system; Modernized metric system; SI; *SP304A. SP305-7.*

Weights and measures; Metric system; SI; *CIS7. SP305-5.*

Weights and measures; Administration; Conference; Laws; Procedures; Regulations; Requirements; Technology; *SP379. SP305-5.*

Weights and measures; Metric system; *SP345-10. SP305-3.*

Weights and measures; NBS authority; Package control; State authority; *9808. SP305-1.*

Weights and measures; Weights and measures—history; Weights and measures—law; Weights and measures—regulations; Weights and measures—technical requirements; Conference; *SP342. SP305-3.*

Weights and measures; Weights and measures abbreviations; Weights and measures systems; Weights and measures units; Conversion tables; International System (SI); Metric System; U. S. Customary System; *M286. SP305.*

Weights and measures abbreviations; Weights and measures systems; Weights and measures units; Conversion tables; International System (SI); Metric System; U. S. Customary System; Weights and measures; *M286. SP305.*

Weights and measures, history; Weights and measures; Conference, weights and measures, laws; Weights and measures, regulations; Weights and measures, technical requirements; *SP318. SP305-1.*

Weights and measures, history; Weights and measures, laws; Weights and measures, regulations; Weights and measures, technical requirements; Weights and measures; Conference; *SP297. SP305-1.*

Weights and measures, history; Weights and measures, laws; Weights and measures, regulations; Weights and measures, technical requirements; Weights and measures; Conference; *SP311. SP305-1.*

Weights and measures inspection; Accurate measurements of volume of liquids; Field standard measuring flasks; Specification; Tolerances; *H105-2. SP305-3.*

Weights and measures inspection; Cooperation for uniformity of measurements; Field standard weights; Specifications; Tolerances; *H105-1. SP305-1.*

Weights and measures inspection; Weights used by servicemen; Field standard weights; Specifications; Test weights; Tolerances; *H105-1. (Revised 1972). SP305-4.*

Weights and measures, laws; Weights and measures, regulations; Weights and measures, technical requirements; Weights and measures; Conference; Weights and measures, history; *SP297. SP305-1.*

Weights and measures, laws; Weights and measures, regulations; Weights and measures, technical requirements; Weights and measures, history; *SP311. SP305-1.*

Weights and measures, regulations; Weights and measures, technical requirements; Weights and measures; Conference; Weights and measures, history; Weights and measures, laws; *SP297. SP305-1.*

Weights and measures, regulations; Weights and measures, technical requirements; Weights and measures; Conference; Weights and measures, history; Weights and measures, laws; *SP311. SP305-1.*

Weights and measures, regulations; Weights and measures, technical requirements; Weights and measures, history; Weights and measures; Conference, weights and measures, laws; *SP318. SP305-1.*

Weights and measures systems; Weights and measures units; Conversion tables; International System (SI); Metric System; U. S. Customary System; Weights and measures; Weights and measures abbreviations; *M286. SP305.*

Weights and measures, technical requirements; Weights and measures; Conference; Weights and measures, history; Weights and measures, laws; Weights and measures, regulations; *SP297. SP305-1.*

Weights and measures, technical requirements; Weights and measures; Conference; Weights and measures, history;

- Weights and measures, laws; Weights and measures, regulations; *SP311*. **SP305-1.**
- Weights and measures, technical requirements; Weights and measures, history; Weights and measures; Conference, weights and measures, laws; Weights and measures, regulations; *SP318*. **SP305-1.**
- Weights and measures units; Conversion tables; International System (SI); Metric System; U. S. Customary System; Weights and measures; Weights and measures abbreviations; Weights and measures systems; *M286*. **SP305.**
- Weights and measures—history; Weights and measures—law; Weights and measures—regulations; Weights and measures—technical requirements; Conference; Weights and measures—technical requirements; Conference; Weights and measures—history; *SP342*. **SP305-3.**
- Weights and measures—law; Weights and measures—regulations; Weights and measures—technical requirements; Conference; Weights and measures—history; *SP342*. **SP305-3.**
- Weights and measures—regulations; Weights and measures—technical requirements; Conference; Weights and measures; Weights and measures—history; Weights and measures—law; *SP342*. **SP305-3.**
- Weights and measures—technical requirements; Conference; Weights and measures; Weights and measures—history; Weights and measures—law; Weights and measures—regulations; *SP342*. **SP305-3.**
- Weights used by servicemen; Field standard weights; Specifications; Test weights; Tolerances; Weights and measures inspection; *H105-1*. (Revised 1972). **SP305-4.**
- Weinberg; Gauge theories; Lepton; Muon; *M*-spin; Scattering amplitudes; *1492*. **SP305-7.**
- Weirs, broad-crested; Flow measurement; *12366*. **SP305-3.**
- Weiss model; Density of states; Ising model; Onsager model; Partition function; Phase transition; *SP323*, pp. 381-384. **SP305-4.**
- Weissenberg method; Crystal structure; Diffraction; Multiple diffraction; *10046*. **SP305-1.**
- Weissenberg methods; X-ray; Absorption correction; *10045*. **SP305-1.**
- Weisskopf-Wigner; *CP*-violation; Decays; Direct tests; Kaon; Lepton-asymmetry; Momentum-dependence; *15211*. **SP305-7.**
- Weldbonded joints; Adhesive-bonded joints; Bonded joints; Double-lap joint analysis; Finite element analysis; Joining; Joints; Single-lap joint analysis; Single-lap-joint bending; Spotwelded joints; *NBSIR 75-957*. **SP305-8.**
- Weldbonded joints; Bonded joints; Computer simulation; Cyclic loading; Debond analysis; Finite element analysis; Joints; Nonlinear analysis; Single-lap-joint bending; Spotwelded joints; *16147*. **SP305-8.**
- Welded; Brazed; Copper; Low temperature; Notch-tensile; Tensile; *11432*. **SP305-2.**
- Welded steel pipe; Brittle fracture; Gas main pipe; *NBSIR 73-299*. **SP305-8.**
- Welding; Alloying; Inclusions; Low temperature; Rolling; Ships; Steel; *16145*. **SP305-8.**
- Welding; Fracture control; Fracture mechanics; Mechanical properties; Nondestructive evaluation (NDE); Radiography; *NBSIR 76-1154*, Vol. 1. **SP305-8.**
- Welding; Fracture control; Fracture mechanics; Mechanical properties; Nondestructive evaluation (NDE); Radiography; *NBSIR 76-1154*, Vol. 2. **SP305-8.**
- Well crystal counting; Cadmium-109; Cobalt-57; Gamma-ray emission rate; Iron-57; Photoelectron escape; Silver-109m; Standardization; *12885*. **SP305-4.**
- Well-defined, measurable properties; Data; Standard Reference Data Program; *15301*. **SP305-7.**
- Wentzel theory; X-ray satellite lines; Auger transition; Coster-Kronig theory; Non-diagram lines; *12582*. **SP305-4.**
- Westcott; Cross section; Neutron; Resonance; Sodium; Thermal; *SP425*, pp. 792-794. **SP305-7.**
- Westcott g-factors; Cf-252 spontaneous fission neutron yield  $\pm 0.0253$  eV and 20 °C Maxwellian; Fission-neutron yield; Half-lives of U-233, U-234, Pu-239; Mean energy of fission neutron spectrum; Neutron cross-sections; *SP425*, pp. 792-794. **SP305-7.**
- Westcott g-factor;  $^{240}\text{Pu}$  fission cross-section; Normalization; *SP425*, pp. 603-606. **SP305-7.**
- Western Europe; Optical character; Pattern recognition; Recognition; Research; Speaker identification; Speech recognition; Standardized fonts; U.S.S.R.; *11142*. **SP305-2.**
- Westward drift; Core-mantle coupling; Decade fluctuations; Dynamo theory; Earth's core; Geomagnetism; Rotation of earth; *TN358*. **SP305.**
- Wet ashing; Ashing techniques; Dissolution; Dry ashing; Organic materials analysis; Trace element analysis; *SP422*, 491-507 (Aug. 1976). **SP305-8.**
- Wet breaking load; Accelerated aging; Dry breaking load; Paper; PH; Records; Reflectance; Specifications; Stability; *14605*. **SP305-6.**
- Wet chemical analysis; Atomic absorption analysis; Calcium-252; Mahoning River; Neutron activation analysis; Pollution; Sediment; Trace elements; Water; *SP422*, pp. 225-230 (Aug. 1976). **SP305-8.**
- Wet chemistry; X-ray fluorescence; Activation analysis; Characterization; Chemical composition; Chromatographic analysis; Coulometry; Electron probe microanalysis; Ion-selective electrodes; Mass spectrometry; Polarography; Spectrochemical analysis; Thermal analysis; *15165*. **SP305-7.**
- Wet pavement; Accident reduction, skidding; Correlation, skid resistance; Highway safety; Pavement, skid resistance; Pavement wetting system, tire-pavement interface forces; *NBS 75-972*. **SP305-8.**
- Wet pavement; Accident reduction, skidding; Correlation, skid resistance; Highway safety; Measurement, skid resistance; Pavement, skid resistance; Pavement wetting system; Tire-pavement interface forces; *NBSIR 76-1133*. **SP305-8.**
- Wet-ashing blank; Biological analysis; Container blank; Neutron activation analysis; *SP422*, pp. 593-604 (Aug. 1976). **SP305-8.**
- Wet-bulb; Adiabatic saturation; Gas mixtures; Humidity; Hygrometer; Mixing ratio; Moist gas; Psychrometric factor; Saturation; Thermodynamic wet-bulb temperature; Vapor content; *J72C No. 1*, 33-47 (1966). **SP305-1.**
- Wet-bulb temperature; Antoine Equation; Dew point; Humidity; Hygrometry; Psychrometric chart; Relative humidity; Vapor pressure of water; *J74C Nos. 3 and 4*, 117-118 (1970). **SP305-2.**
- Weyl; Bounded representations; Burnside; Irreducibility; Unitary groups; *15308*. **SP305-7.**
- Weyl prescription; Baker-Campbell-Hausdorff formula; Density matrix; Differential equations; Expansions; Exponential operators; Harmonic oscillator; Lie algebra; Normal ordering of operators; Operator identities; Parameter differentiation; *10130*. **SP305-1.**
- Weyl's Theorem; Convex hull; Unit circle; *J77B Nos. 3 and 137-141* (1973). **SP305-5.**
- Wf<sub>g</sub>; Coriolis constants; Force field; Infrared; SeF<sub>6</sub>; Vibrational rotation; *9529*. **SP305-1.**
- Wheatstone Bridge; Automatic network analyzers; Computer controlled measurement; Magic tee; Microwave measurement methods; Multiple probe devices; Reflectometers; Rotational probe devices; Slotted lines; Survey of automatic technique; Swept frequency measurements; *Monogr. 151*. **SP305-8.**
- Wheel dressing; Abrasive wear parameter; Grinding; Material removal parameter; Principles of grinding; Surface finish grinding; Surface integrity in ground surfaces; *SP348*, pp. 571-572. **SP305-4.**

neel machining; Abrasive; Ceramic machining; Sonic machining; Vibrational machining; *SP348*, pp. 133-139. **SP305-4**, neel structure; Abrasive machining; Brittle chip formation; Brittle fracture; Chip accommodation; Glass; Glass-ceramics; Machining and grinding technical ceramics; Material removal rate; Specific energy; *SP348*, pp. 53-57. **SP305-4**, neel-shaft angle, shifting during rotation; Wind vane, lamped; Accelerated weathering test; Acoustic distortion, cancelling; Averaging wind vane; Cryogen density, measuring; Distortion-cancelling loudspeakers; Grooved runway; *TN536*. **SP305-2**, whisker; Whisker evaporation; Mean adatom stay time; Moving boundary; Stefan problem; Surface diffusion; Surface diffusion constant; *11129*. **SP305-2**, whisker diode; Antenna theory; Infrared detectors; Lasers; *12168*. **SP305-3**, whisker evaporation; Mean adatom stay time; Moving boundary; Stefan problem; Surface diffusion; Surface diffusion constant; Whisker; *11129*. **SP305-2**, whisker growth; Curtis approximation; Dittmar-Neumann approximation; Mean stay time; Stefan problem; Surface concentration; Surface self-diffusion; *9508*. **SP305**, whiskers; Field-ion microscopy; Mass spectrometry ionization sources; Organic molecule imaging; Thin films; *10689*. **SP305-1**, white dwarf spectra; Balmer lines H $\alpha$ , H $\beta$ , and H $\gamma$ ; Gravitational red shift; Stark broadening; Stark-induced red shift; *12226*. **SP305-3**, white noise; Zero crossings; Clock errors; Dispersion of clock reading; Flicker noise; Random-walk noise; Renewal equation; Renewal processes; Statistics of clock ensembles; *11332*. **SP305-2**, white phase modulation; Allan variance; Flicker of frequency modulation; Johnson noise; Linewidth; Random walk frequency modulation; Spectral density of frequency fluctuations  $S_y(f)$ ; *14828*. **SP305-7**, whiteness; Color difference; Colorimetry; Color-matching functions; Titanium dioxide; *11009*. **SP305-2**, whiting; Calcium carbonate; Calcium sulfate; Chalk; Chroma; Toxicity; *P530-70*. **SP305-3**, whitlockite;  $\beta$ -tricalcium; Calcification; Calcium; Dicalcium phosphate; Octacalcium phosphate; Pyrolysis; Pyrophosphate; Stoichiometry; *15996*. **SP305-8**, whitlockite; Ca/P ratio; Pyrolysis; Pyrophosphate; Stoichiometry; Tricalcium phosphate; *12183*. **SP305-3**, whittaker functions; Asymptotic analysis; Darboux's method; Definite integrals; Hypergeometric functions; Incomplete gamma function; Legendre functions; Ordinary differential equations; Saddle points; Special functions; Turning points; *15818*. **SP305-8**, whittaker's cardinal function; Laguerre transform; Sampling function; *J. Res.* **80B** No. 3, 415-418 (1976). **SP305-8**, wide band; Data communication equipment; Data processing terminal equipment; Data transmission (high speed); Federal Information Processing Standards; Synchronous signaling rates; Teleprocessing; *FIPS PUB 37*. **SP305-7**, wide dynamic range; Fast integrator; High duty; Integral linearity; Stable converter; *12850*. **SP305-4**, wide-line nmr; Collagen; D $_2$ O in collagen; Deuterium nmr; MgCl $_2$  in collagen; MgSO $_4$  in collagen; *14026*. **SP305-6**, wide-line NMR; Molecular rotation; NMR second moment; *n*-nonadecane; Paraffin; Rotator phase; *14018*. **SP305-6**, widener collection; Art restoration; Cellini; Chemical microscopy; National Gallery of Art; Renaissance bronzes; *11984*. **SP305-3**, wide-range; Calibration; Current comparator; Current transformer; Overload testing; Self-balancing current comparator; Transformer; *12256*. **SP305-3**, wide-range; Zero-crossing; Discriminator; Picosecond; Resolution; Time-invariant; *10125*. **SP305-1**, Width; Experimental; Neutral atom; Review; Shift; Stark broadening; *JPCRD* **5**, No. 2, 209-258 (1976). **SP305-8**, Width correlations;  $E_\alpha = 24.3$  keV; Neutron capture  $\gamma$ -rays; *SP425*, pp. 926-928. **SP305-7**, Wien; Boltzmann; Draper; Jeans; Kirchhoff; Optical; Planck; Pyrometry; Radiance; Rayleigh; Stefan; Temperature; *9788*. **SP305-1**, Wien equation; Brightness temperature; Color temperature; Effective wavelength; Infrared and far infrared optical pyrometry; Planck equation; Rayleigh-Jeans equation; Spectral radiance; *9310*. **SP305**, Wigner coefficients; Quantum theory of angular momentum;  $3j$  coefficient;  $6j$  coefficient;  $9j$  coefficient; Clebsch-Gordan coefficients; Fortran program; *TN409*. **SP305**, Wigner-Kirkwood expansion; Equation of state; Helium; Lennard-Jones gas exchange effects; Quantum mechanics; Second virial coefficient; *11257*. **SP305-2**, Wild observations; Asymptotic theory; Efficiency; Median; Order statistics; Probability distributions; Robust estimators; Statistical estimation; Weighted means; *10229*. **SP305-1**, Wilks award; Wilks, S. S.; *Annals of Mathematical Statistics*; bibliography; Distribution-free methods; Educational testing; Mathematical statistics; Multivariate analysis; Order statistics; Social sciences, services to; *16114*. **SP305-8**, Wilks, S. S.; *Annals of Mathematical Statistics*; bibliography; Distribution-free methods; Educational testing; Mathematical statistics; Multivariate analysis; Order statistics; Social sciences, services to; Statistical education in the United States; *16114*. **SP305-8**, Wilks, S. S.; Wishart, John; *Annals of Mathematical Statistics*; Army Experiment Design Conferences; Dodd, E. L.; Educational testing; History of mathematical statistics in the U.S.A.; Hotelling, Harold; Likelihood-ratio tests; *15513*. **SP305-7**, William Buckley; Abraham De Moivre; *Annuities upon Lives*; "Argument for Divine Providence"; *Arithmetica Memorativa*; Bernoulli's theorem; *Doctrine of Chances*; Generating functions; John Wallis; *Laws of Chance*; *9695*. **SP305-1**, William Chauvenet; Abraham De Moivre; Avogadro's number; Brownian motion; Chauvenet's criterion; Coast and Geodetic Survey; Corrado Gini; Emile Borel; Factorial moments; Ferdinand Rudolph Hassler; History of probability; Isaac Todhunter; *11618*. **SP305-2**, Will-to-think; Creative-failure methodology; Invention of transistor; Junction transistor; Patents; Semiconductor amplifiers; *SP388*, pp. 47-88. **SP305-6**, Wilmer Souder; Certification program; Guide; List of certified dental materials; Specifications; *12916*. **SP305-4**, Wilson-Bappu effect; Ca H and K lines; Non-LTE line formation; Plages; Radiative transport; Solar chromosphere; Solar spectrum; Sunspots; *12106*. **SP305-3**, Wilson-Bappu effect; Chromospheres, stellar; *Copernicus* observations; Ultraviolet stellar spectra; *15784*. **SP305-8**, Wilson's disease; Atomic absorption spectroscopy (AAS); Comparison between NAA and AAS; Neutron activation analysis (NAA); Time of analysis in NAA and AAS; Trace element content in liver biopsies; *SP422*, pp. 231-238 (Aug. 1976). **SP305-8**, Wind; Air inlet; Discomfort index; Draft; Outside wall; Ventilation; *TN710-6*. **SP305-5**, Wind; Bangladesh; Housing; Low-cost housing; Low-rise buildings; *NBS-GCR-76-74*. **SP305-8**, Wind; Bridge; Design; Field data; Gust response; Model; Specifications; Structure; Theory; *SP444*, pp. 1-1-1-20 (Apr. 1976). **SP305-8**, Wind; Bridges; Buildings; Codes; Disaster; Dynamic analysis; Earthquakes; Modeling; Soils; Structural response; Volcanoes; *SP444*. **SP305-8**, Wind; Buildings; Cyclones; Disasters; Structural engineering; Tides; *BSS86*. **SP305-8**.

- Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; Structural engineering; Tornadoes; *BSS61*. **SP305-7.**
- Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; Structural engineering; Tornadoes; *NBS-GCR-75-36*. **SP305-8.**
- Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; Structural engineering; Tornadoes; *NBS-GCR-75-37*. **SP305-8.**
- Wind; Buildings; Damage; Disaster; Dynamic analysis; Earthquakes; Hurricanes; Natural hazards; Structural engineering; Tornadoes; *NBS-GCR-75-38*. **SP305-8.**
- Wind; Buildings; Failure; Hurricanes; Mobile homes; Roofs; Structural engineering; Tides; *TN569*. **SP305-3.**
- Wind; Coastal engineering; Damage; Hurricanes; Ocean waves; Probability theory; Storms; Storm surges; *12714*. **SP305-4.**
- Wind; Missiles; Nuclear engineering; Structural engineering; Tornadoes; *NBSIR 76-1050*. **SP305-8.**
- Wind; Wind damage; Wind engineering; Building codes; Design standards; Masonry construction; Roofs; Siding; Structural engineering; *TN909*. **SP305-8.**
- Wind; Wind intensities; Cloud seeding; Frequency distribution; Hurricanes; Typhoon; *SP444*, pp. 1-21-1-33 (Apr. 1976). **SP305-8.**
- Wind damage; Wind engineering; Building codes; Design standards; Masonry construction; Roofs; Siding; Structural engineering; *Wind*; *TN909*. **SP305-8.**
- Wind damage; Wind loads; Buildings; Fluctuating pressure; Gust factors; Walls; *BSS30*, pp. 9-18. **SP305-3.**
- Wind damage; Wind loads; Buildings; Codes and standards; Cyclones; Natural disasters; Structural engineering; *15609*. **SP305-7.**
- Wind direction; Wind speed; Air contamination; Design conditions; Earthquake risk; Evaluation; Ground temperature; Humidity; Noise level; Operation BREAKTHROUGH; Precipitation; Solar radiation; Temperature; *13398*. **SP305-5.**
- Wind effects; Building; Earthquakes; Hazards; Land use; Structural engineering; *BSS46*. **SP305-5.**
- Wind effects; Wind loads; Aerodynamic forces; Atmospheric boundary layer; Structural design; Turbulence; *BSS30*. **SP305-3.**
- Wind effects; Wind loads; Codes and standards; Information transfer; Low-rise buildings; Pressure transducers; Socio-economic; Structural design; Technology implementation; *BSS56*. **SP305-6.**
- Wind effects; Wind loads; Wind tunnel; Climatological data; Meteorology; Tall buildings; *14104*. **SP305-6.**
- Wind effects; Wind tunnel modeling; Architectural features; Buildings; Mullions; Parapets; Roof projections; Static pressures; *BSS30*, pp. 73-86. **SP305-3.**
- Wind effects on structures; Air leakage; Cooling load measurement; Refrigerated enclosures; Testing of vehicles; *14799*. **SP305-7.**
- Wind engineering; Building codes; Design standards; Masonry construction; Roofs; Siding; Structural engineering; *Wind*; *Wind damage*; *TN909*. **SP305-8.**
- Wind engineering; Research projects; Sponsorship; *SP444*, pp. V-80—V-82 (Apr. 1976). **SP305-8.**
- Wind engineering; Wind loads; Accelerations; Buffeting; Building codes; Buildings; Deflections; Dynamic response; Gust factors; Structural engineering; *BSS74*. **SP305-7.**
- Wind engineering; Wind loads; Accelerations; Building codes; Buildings; Deflections; Dynamic response; Gust factors; Structural engineering; *15871*. **SP305-8.**
- Wind field pressure measurements; Ambient pressure probe; Omnidirectional pressure probe; Pressure probe shroud; Static pressure; Weatherproof pressure probe; *U.S. Patent 3,950,995*. **SP305-8.**
- Wind intensities; Cloud seeding; Frequency distribution; Hurricanes; Typhoon; *Wind*; *SP444*, pp. 1-21-1-33 (Apr. 1976). **SP305-8.**
- Wind load; Anchorage; Building performance; Glazing; Hoses; Masonry; Mobile homes; Roofs; Structural engineering; *TN558*. **SP305-3.**
- Wind load; Design standards; Earthquake load; Masonry construction; Precast concrete construction; Progressive collapse; Structural connection; Structural design; *15369*. **SP305-7.**
- Wind load; Finite element; Guyed tower; Structural analysis; Structural engineering; Vibration analysis; *SP444*, pp. 37—IV-54 (Apr. 1976). **SP305-8.**
- Wind load; Wind profile; Wind tunnel; Bridge; Meteorological data; Topographical model; *SP444*, pp. 1—II-20 (Apr. 1976). **SP305-8.**
- Wind load; Wood frame construction; Building damping; Dynamics; Earthquake; Frequency; Housing; Lateral resistance; Racking; Stiffness; Structural deflections; Vibrations; *BSS44*. **SP305-5.**
- Wind loading; Window; Air-tightness; Performance characteristics; Performance parameters; Rain-tightness; Sealing units; *SP361*, Vol. 1, pp. 375-384. **SP305-4.**
- Wind loads; Accelerations; Buffeting; Building codes; Building deflections; Dynamic response; Gust factors; Structural engineering; *Wind engineering*; *15871*. **SP305-8.**
- Wind loads; Aerodynamic forces; Atmospheric boundary layer; Structural design; Turbulence; Wind effects; *BSS30*. **SP305-3.**
- Wind loads; Aeroelasticity; Buildings; Circular cylinders; Gust factors; Masts; Structural engineering; Towers; Vortex shedding; *BSS30*, pp. 115-128. **SP305-3.**
- Wind loads; Anemometers; Instrumentation; Tower interference; Transducers; Wind vanes; *BSS30*, p. 21. **SP305-3.**
- Wind loads; Building code; Damage classification; External wind; Tornado; *SP444*, pp. 1-34-1-39 (Apr. 1976). **SP305-8.**
- Wind loads; Building codes; Buildings; Deflections; Dynamic response; Gust factors; Structural engineering; *SP444*, pp. 1-127—IV-144 (Apr. 1976). **SP305-8.**
- Wind loads; Building technology; Cooperation; Fire safety; Hydraulics; *NBSIR 74-618*. **SP305-7.**
- Wind loads; Buildings; Codes and standards; Cyclones; Natural disasters; Structural engineering; Wind damage; *15609*. **SP305-7.**
- Wind loads; Buildings; Codes and standards; Housing; Hurricanes; Low-rise buildings; Natural disaster; Structural connections; Typhoons; *NBSIR 75-790*. **SP305-8.**
- Wind loads; Buildings; Deflections; Instrumentation; Structural response; *TN873*. **SP305-7.**
- Wind loads; Buildings; Design criteria; Dynamics; Gust factor; Smoke stacks; Structural failure; *BSS30*, pp. 5-8. **SP305-3.**
- Wind loads; Buildings; Dynamics; Gust factor; Mode shape; Probability theory; *BSS30*, pp. 93-104. **SP305-3.**
- Wind loads; Buildings; Dynamics; Gust loads; Matrix analysis; Mode shape; Probability theory; *BSS30*, pp. 145-149. **SP305-3.**
- Wind loads; Buildings; Fluctuating pressure; Gust factors; Walls; Wind damage; *BSS30*, pp. 9-18. **SP305-3.**
- Wind loads; Buildings; Full-scale tests; Instrumentation; Pressure fluctuations; Statistical analysis; *14455*. **SP305-6.**
- Wind loads; Codes and standards; Information transfer; Low-rise buildings; Pressure transducers; Socio-economic; Structural design; Technology implementation; Wind effect; *BSS56*. **SP305-6.**
- Wind loads; Cooperative programs; Fire safety; Hydraulics; International building technology; *NBSIR 74-497*. **SP305-6.**



- find loads; Vibrations; Buildings; Climatology; Seismic loads; Structural engineering; *BSS30*, pp. 129-131. **SP305-3.**
- find loads; Wind profile; Buildings; Climatology; Extreme value theory; Gust factors; Structural engineering; *BSS30*, pp. 151-164. **SP305-3.**
- find loads; Wind speeds; Building codes; Probability distribution function; Reliability; Risk; Statistical analysis; Storms; Structural engineering; *15558*. **SP305-7.**
- find loads; Wind speeds; Building codes; Extreme value distributions; Hurricanes; Probability distribution functions; Reliability; Risk; Statistical analysis; Storms; Structural engineering; *TN868*. **SP305-7.**
- find loads; Wind tunnel; Climatological data; Meteorology; Tall buildings; Wind effects; *14104*. **SP305-6.**
- find loads; Wind tunnel modeling; Aeroelasticity; Buildings; Dynamics; Statistical analysis; Structural engineering; *BSS30*, pp. 107-114. **SP305-3.**
- find loads; Wind tunnel modeling; Boundary layer; Buildings; Pressure fluctuations; Instrumentation; Overturning moments; *BSS30*, pp. 45-59. **SP305-3.**
- find loads; Wind tunnel modeling; Buildings; Full-scale tests; Power spectra; Pressure fluctuations; *BSS30*, pp. 61-71. **SP305-3.**
- find loads; Wind tunnel modeling; Buildings; Construction; Data acquisition equipment; Design criteria; Extreme winds; Information transfer; Instrumentation; *NBSIR 74-567*. **SP305-6.**
- find loads; Wind tunnels; Aerodynamics; Boundary layers; Buildings; Codes and standards; *TN852*. **SP305-6.**
- find loads; Wind tunnels; Aerodynamics; Boundary layers; Buildings; Codes and standards; *SP444*, pp. II-21—II-51 (Apr. 1976). **SP305-8.**
- find loads; Windwalls; Curtain walls; Doors; Test; Walls; *14593*. **SP305-6.**
- Wind (meteorology); Acceleration; Aerodynamics; Building (codes); Deflection; Dynamic structural analysis; Pressure; Spectra; Structural engineering; Tall buildings; Turbulence; *14534*. **SP305-6.**
- Wind (meteorology); Wind pressure; Buildings (codes); Failure; Probability distribution functions; Reliability; Structural engineering; *16544*. **SP305-8.**
- Wind observations; Wind profiles; Climatology; Meteorology; Spatial correlation; Turbulence; *BSS30*, pp. 23-25. **SP305-3.**
- Wind pressure; Buildings (codes); Failure; Probability distribution functions; Reliability; Structural engineering; Wind (meteorology); *16544*. **SP305-8.**
- Wind pressure; Wind speed; Buildings (codes); Hurricanes; Probability distribution functions; Reliability; Risk; Statistical analysis; Storms; Structural engineering; *16545*. **SP305-8.**
- Wind profile; Buildings; Climatology; Extreme value theory; Gust factors; Structural engineering; Wind loads; *BSS30*, pp. 151-164. **SP305-3.**
- Wind profile; Wind tunnel; Bridge; Gust; Meteorological data; Topographical model; Wind load; *SP444*, pp. II-1—II-20 (Apr. 1976). **SP305-8.**
- Wind profiles; Atmospheric boundary layer; Gust factors; Peak values; Power spectra; Turbulence; *BSS30*, pp. 27-41. **SP305-3.**
- Wind profiles; Boundary layer; Hurricanes; Loads (forces); Natural disasters; Structural analysis; Tall buildings; *14639*. **SP305-6.**
- Wind profiles; Boundary layer; Hurricanes; Loads (forces); Natural analysis; Tall buildings; *15899*. **SP305-8.**
- Wind profiles; Climatology; Meteorology; Spatial correlation; Turbulence; Wind observations; *BSS30*, pp. 23-25. **SP305-3.**
- Wind profiles; Wind spectra; Aerodynamics; Dynamic response; Gust factor; Structural engineering; *14633*. **SP305-6.**
- Wind setup; Wind-wave interaction; Wind waves; Water waves; Wave damping; Waves, wind stress on; *9865*. **SP305-1.**
- Wind spectra; Aerodynamics; Dynamic response; Gust factor; Structural engineering; Wind profiles; *14633*. **SP305-6.**
- Wind speed; Air contamination; Design conditions; Earthquake risk; Evaluation; Ground temperature; Humidity; Noise level; Operation **BREAKTHROUGH**; Precipitation; Solar radiation; Temperature; Wind direction; *13398*. **SP305-5.**
- Wind speed; Buildings (codes); Hurricanes; Probability distribution functions; Reliability; Risk; Statistical analysis; Storms; Structural engineering; Wind pressure; *16545*. **SP305-8.**
- Wind speeds; Building codes; Extreme value distributions; Hurricanes; Probability distribution functions; Reliability; Risk; Statistical analysis; Storms; Structural engineering; Wind loads; *TN868*. **SP305-7.**
- Wind speeds; Building codes; Probability distribution function; Reliability; Risk; Statistical analysis; Storms; Structural engineering; Wind loads; *15558*. **SP305-7.**
- Wind tunnel; Bridge; Gust; Meteorological data; Topographical model; Wind load; Wind profile; *SP444*, pp. II-1—II-20 (Apr. 1976). **SP305-8.**
- Wind tunnel; Climatological data; Meteorology; Tall buildings; Wind effects; Wind loads; *14104*. **SP305-6.**
- Wind tunnel; Computer; Correlations; Even-order, odd-order, space-time; Hot-wire anemometer; Taylor's approximation; Turbulence; *9730*. **SP305-1.**
- Wind tunnel; Construction; Design criteria; Extreme winds; Full-scale test buildings; Housing; Instrumentation; *NBSIR 74-582*. **SP305-6.**
- Wind tunnel modeling; Aeroelasticity; Buildings; Dynamics; Statistical analysis; Structural engineering; Wind loads; *BSS30*, pp. 107-114. **SP305-3.**
- Wind tunnel modeling; Architectural features; Buildings; Mullions; Parapets; Roof projections; Static pressures; Wind effects; *BSS30*, pp. 73-86. **SP305-3.**
- Wind tunnel modeling; Boundary layer; Buildings; Pressure fluctuations; Instrumentation; Overturning moments; Wind loads; *BSS30*, pp. 45-59. **SP305-3.**
- Wind tunnel modeling; Buildings; Construction; Data acquisition equipment; Design criteria; Extreme winds; Information transfer; Instrumentation; Wind loads; *NBSIR 74-567*. **SP305-6.**
- Wind tunnel modeling; Buildings; Full-scale tests; Power spectra; Pressure fluctuations; Wind loads; *BSS30*, pp. 61-71. **SP305-3.**
- Wind tunnels; Aerodynamics; Boundary layers; Buildings; Codes and standards; Wind loads; *TN852*. **SP305-6.**
- Wind tunnels; Aerodynamics; Boundary layers; Buildings; Codes and standards; Wind loads; *SP444*, pp. II-21—II-51 (Apr. 1976). **SP305-8.**
- Wind vane; Work positioner; Conductometry; Decoding matrix; Fluorolefins; Integrator; Magnetic sensing probe; Magnetic tape; Microbridge; Numbering machine; Perfluorostyrene; Shaft position encoder; Staple detector; Superconducting; *TN744*. **SP305-4.**
- Wind vane, damped; Accelerated weathering test; Acoustic distortion, cancelling; Averaging wind vane; Cryogen density, measuring; Distortion-cancelling loudspeakers; Grooved runway; Hydroplaning skidding, prevention of; Loudspeaker system; *TN536*. **SP305-2.**
- Wind vanes; Wind loads; Anemometers; Instrumentation; Tower interference; Transducers; *BSS30*, p. 21. **SP305-3.**
- Wind velocity; Air infiltration; Dynamic pressure differential; *15403*. **SP305-7.**
- Wind waves; Water waves; Wave damping; Waves, wind stress on; Wind setup; Wind-wave interaction; *9865*. **SP305-1.**
- Wind-generated noise; Acoustic attenuation; Foam wind-screens; *13726*. **SP305-5.**
- Window; Air-tightness; Performance characteristics; Performance parameters; Rain-tightness; Sealed glazing units; Wind loading; *SP361*, Vol. 1, pp. 375-384. **SP305-4.**

- Window; ZnSe; CO<sub>2</sub> laser radiation; Cu; CW laser damage; Grating; Infrared windows; KCl; Mirror; Mo; NaCl; *SP435*, pp. 189-201 (Apr. 1976). **SP305-8.**
- Window air conditioners; Energy efficient products; Experimental Technology Incentives Program; Life cycle costing; Procurement experiments; *NBS-GCR-ETIP 76-19*. **SP305-8.**
- Window characteristics; Window evaluation; Window functions; Window requirements; Window standards; Performance criteria; Performance evaluation; *SP361, Vol. 1*, pp. 385-394. **SP305-4.**
- Window coatings; KCl; AnSe; CdTe; CO<sub>2</sub> laser damage; Damage thresholds; Laser windows; *SP387*, pp. 151-156. **SP305-5.**
- Window damage; Mirror damage; Pulsed lasers; *SP435*, pp. 202-206 (Apr. 1976). **SP305-8.**
- Window evaluation; Window functions; Window requirements; Window standards; Performance criteria; Performance evaluation; Window characteristics; Window evaluation; *SP361, Vol. 1*, pp. 385-394. **SP305-4.**
- Window functions; Window requirements; Window standards; Performance criteria; Performance evaluation; Window characteristics; Window evaluation; *SP361, Vol. 1*, pp. 385-394. **SP305-4.**
- Window holder; Cryostat; Deposit; Thermal conductivity; Thermal contact; *10290*. **SP305-1.**
- Window materials; Actinometry; Experimental; Light sources; Photochemistry; Vacuum ultraviolet; *12942*. **SP305-4.**
- Window materials; Infrared absorption; Infrared laser systems; Thermal fracture; *SP372*, pp. 172-175. **SP305-4.**
- Window requirements; Window standards; Performance criteria; Performance evaluation; Window characteristics; Window evaluation; Window functions; *SP361, Vol. 1*, pp. 385-394. **SP305-4.**
- Window seal; Electric discharge; Resonance lamp; Vacuum ultraviolet; *9279*. **SP305.**
- Window standards; Performance criteria; Performance evaluation; Window characteristics; Window evaluation; Window functions; Window requirements; *SP361, Vol. 1*, pp. 385-394. **SP305-4.**
- Windowless; Windows; Daylight; Fenestration; Psychological; Solar glass; Spaciousness; Sunshine; View; *BSS70*. **SP305-7.**
- Windowless vacuum; Mass spectrometer; Mass spectrometric study; Photoionization of small molecules; Small molecules; Ultraviolet monochromator; *9676*. **SP305-1.**
- Windows; Acoustics; Air infiltration; Air leakage; Architectural acoustics; Building acoustics; Doors; Energy conservation; Heat loss from buildings; Heat transfer; Sound transmission loss; Thermal resistance; Thermal transmittance; *BSS77*. **SP305-7.**
- Windows; Crack growth; Fracture mechanics; Glass; Static fatigue; Structural design; *14284*. **SP305-6.**
- Windows; Curtain walls; Doors; Test; Walls; Wind loads; *14593*. **SP305-6.**
- Windows; Daylight; Fenestration; Psychological; Solar glass; Spaciousness; Sunshine; View; Windowless; *BSS70*. **SP305-7.**
- Windows; Daylight gathering; Daylighting of buildings; Energy conservation; Lenses; Light conduits; Light control; Reflectors; Skylights; *NBSIR 76-1098*. **SP305-8.**
- Windows; Infrared lasers; Interferometry; Stress birefringence; Thermal distortion; *SP435*, pp. 126-141 (Apr. 1976). **SP305-8.**
- Winds; Radiative transfer—stars; *15824*. **SP305-8.**
- Windstorms; Buildings; Construction; Design; Developing countries; Earthquakes; Low-cost housing; Natural disasters; Structures; *BSS48*. **SP305-6.**
- Wind-wave interaction; Wind waves; Water waves; Wave damping; Waves, wind stress on; *Wind setup*; *9865*. **SP305-1.**
- Winter; Bias ply; Breaking energy; Passenger car; Radial; Tires; Tire strength; *11833*. **SP305-3.**
- Winter anomaly; Absorption; Ionospheric; Ionospheric absorption; Stratospheric warnings; *9267*. **SP305.**
- Winter masonry; Fresh mortar; Interaction between masonry mortars and units; Masonry mortar; Mortar evaluation; Mortar standard; Suction of masonry unit; *SP361, Vol. 1*, pp. 687-692. **SP305-4.**
- Winter tires; Bias ply; Grading; Passenger car tires; Radial tires; Speed capability; Tires; *11494*. **SP305-2.**
- Winter tires; Bias ply; Grading; Passenger car tires; Radial tires; Speed capability; Tires; *11496*. **SP305-2.**
- Wire bar supports; Bars, concrete reinforcement; Concrete construction; supports; Reinforced concrete construction; Reinforcement bars; *P57-66*. **SP305.**
- Wire bond; Bond angle; Bonding; Bond pull test; Bond-to-bond spacing; Large wire; Loop height; Microelectronics; Nondestructive bond pull test; Position of hook; Pull rate; Pull strength; Resolution-of-forces; Semiconductor devices; Ultrasonic bonding; *SP400-18*. **SP305-8.**
- Wire bond; Bond pull test (nondestructive); Metallurgical; Reliability (microelectronic); Transistors; *15430*. **SP305-7.**
- Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; Integrated circuit; Microelectronics; Reliability; Semiconductor devices; *TN72*. **SP305-4.**
- Wire bond; Bonding; Degradation (wire bond); Discrete devices; Electrical interconnection; Fabrication (wire bond); Failure (wire bond); Hybrid circuits; Integrated circuit; Microelectronics; Reliability; Semiconductor devices; Testing (wire bond); *SP400-2*. **SP305-6.**
- Wire bond; Bonding; Electrical connection; Failure (wire bond); Integrated circuits; Microelectronics; Reliability; Semiconductor devices; Testing (wire bond); *TN786*. **SP305-5.**
- Wire bond; Aluminum wire; Bonding; Fabrication (wire bonds); Microelectronics; Ribbon wire; Round wire; Testing (wire bond); Ultrasonic bonding; *TN767*. **SP305-5.**
- Wire bond; Electrical connection; Failure analysis; Intermetallic compounds; Kirkendall voids; Microelectronics; Reliability; Semiconductor devices; *14525*. **SP305-6.**
- Wire bonding; Aluminum; Microelectronics; Ultrasonic bonding; *13022*. **SP305-4.**
- Wire bonding; Aluminum wire; High reliability; Integrated circuit; Metallization; Scanning electron microscope; Transistor; Ultrasonic bonding; *TN785*. **SP305-5.**
- Wire bonding; Capacitor microphone; Flip-chip; Magnet pickup; Microelectronic interconnections; Spider bonding; Ultrasonic bonding; *TN573*. **SP305-3.**
- Wire bonding; Die bonding; Hermeticity; Integrated circuits; Measurement methods; Microelectronics; Oxides; Photolithography; Process control; Reliability; Semiconductor devices; Silicon; *SP400-3*. **SP305-6.**
- Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; Gold-doped silicon; Metallization; Methods of measurement; Microelectronics; *TN527*. **SP305-2.**
- Wire bonds; Alpha detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; Microelectronics; *TN520*. **SP305-2.**
- Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Infrared response; Methods of measurement; *TN717*. **SP305-4.**
- Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical pro

- erties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Infrared response; Methods of measurement; *TN727. SP305-4.*
- Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Methods of measurement; Microelectronics; *TN702. SP305-3.*
- Wire bonds; Alpha-particle detectors; Aluminum wire; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; Methods of measurement; Microelectronics; *TN560. SP305-3.*
- Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; Methods of measurement; *TN571. SP305-3.*
- Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; Methods of measurement; *TN592. SP305-3.*
- Wire bonds; Alpha-particle detectors; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Germanium; Gold-doped silicon; Metallization; Methods of measurement; Microelectronics; *TN555. SP305-2.*
- Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Generation centers; Germanium; Gold-doped silicon; Infrared response; Methods of measurement; *TN754. SP305-5.*
- Wire bonds; Aluminum wire; Base transit time; Carrier lifetime; Die attachment; Electrical properties; Epitaxial silicon; Gamma-ray detectors; Generation centers; Germanium; Gold-doped silicon; Infrared response; Methods of measurement; *TN743. SP305-4.*
- Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; Generation centers; Germanium; Gold-doped silicon; Infrared response; Methods of measurement; *TN773. SP305-5.*
- Wire bonds; Base transit time; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Four-probe method; Generation centers; Germanium; Gold-doped silicon; Infrared response; Methods of measurement; *TN788. SP305-5.*
- Wire bonds; Beam leads; Carrier lifetime; Delay time; Die attachment; Electrical properties; Electronics; Epitaxial silicon; Generation centers; Gold-doped silicon; Methods of measurement; Microelectronics; Microwave diodes; Mobility; Pull test; *TN806. SP305-5.*
- Wire bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; Epitaxial layer thickness; Flying-spot scanner; Gold-doped silicon; Hermeticity; Measurement methods; Microelectronics; Micrometrology; MOS devices; Oxide films; *SP400-8. SP305-7.*
- Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Germanium; Metallization; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; *TN475. SP305-1.*
- Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; Microelectronics; Nuclear radiation detectors; Resistivity; *TN488. SP305-1.*
- Wire bonds; Carrier lifetime; Die attachment; Electrical properties; Gamma detectors; Germanium; Gold-doped silicon; Indium antimonide; Metallization; Methods of measurement; Microelectronics; Nuclear radiation detectors; Resistivity; *TN495. SP305-1.*
- Wire bonds; Carrier lifetime; Electrical properties; Germanium; Methods of measurement; Microelectronics; Resistivity; Semiconductor devices; Semiconductor materials; Semiconductor process control; Silicon; Thermal properties; *TN472. SP305-1.*
- Wire bonds; Contact resistance; Die attachment; Dopant profiles; Electrical properties; Electronics; Gold-doped silicon; Hermeticity; Metallization; Methods of measurement; Microelectronics; Microwave diodes; Mobility; MOS devices; Oxide films; Photomasks; Photoresist; *SP400-1. SP305-6.*
- Wire bonds; X-ray photoelectron spectroscopy; Boron redistribution; Collector resistor; Doping profiles; Effective masses; Electrical properties; Electron beam induced current mode electronics; Epitaxial layer thickness; Flying spot scanner; Gold-doped silicon; Hermeticity; *SP400-4. SP305-6.*
- Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; Epitaxial layer thickness; Flying-spot scanner; Gold-doped silicon; Hermeticity; *SP400-12. SP305-7.*
- Wire bonds; X-ray photoelectron spectroscopy; Boron nitride; Boron redistribution; Capacitance-voltage methods; Darlington pairs; Deep depletion; Dopant profiles; Electrical properties; Electron beam evaporator; Electron beam induced damage; Electronics; *SP400-17. SP305-7.*
- Wire bonds; X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; Charge-coupled device structures; Darlington pairs; Deep depletion; Dopant profiles; Electrical properties; *SP400-19. SP305-8.*
- Wire loop; Atomic absorption; Determination; Lead; Paint; *16334. SP305-8.*
- Wire samples; Elements; Fixed points; Reproducibility; Superconductors; Thermometry; Transition widths; *12511. SP305-4.*
- Wire-bond; Bibliography; Degradation (wire-bond); Discrete devices; Electrical interconnection; Fabrication (wire-bond); Failure (wire-bond); Hybrid circuits; Integrated circuits; Microelectronics; Reliability; Testing (wire-bond); *TN593. SP305-4.*
- Wired city; Wired nation; Broadband interactive terminals; Cable television uses; Checkless society; Computer/communications networks; Computer/communications services; Computer/communications standards; Interactive cable television; Nonentertainment television; *NBS-GCR-75-44. SP305-8.*
- Wired nation; Broadband interactive terminals; Cable television uses; Checkless society; Computer/communications networks; Computer/communications services; Computer/communications standards; Interactive cable television; Nonentertainment television; *NBS-GCR-75-44. SP305-8.*
- Wires; Composites; Copper; Electrical conductivity; Fracture; Law of mixtures; Metallic bonding; Tensile properties; Tungsten; Vapor-deposition; *J.74C Nos. 3 and 4, 97-110 (1970). SP305-2.*

- Wiretapping; Body worn antenna; Bugging; Eavesdropping; Electronic surveillance; Microphones; Receiver; Tape recorder; Telephone; Transmitter; 16237. SP305-8.
- Wire-to-wire calibration; Adjustment for trend; Calibration; Capsule type thermometers; Intercomparison; IPTS-68; Platinum resistance thermometers; NBSIR 74-586. SP305-7.
- Wirtinger; Inequalities; Norms; J70B3-184, 221-231 (1966). SP305.
- Wishart, John; Annals of Mathematical Statistics; Army Experiment Design Conferences; Dodd, E. L.; Educational testing; History of mathematical statistics in the U.S.A.; Hotelling, Harold; Likelihood-ratio tests; Multivariate analysis; 15513. SP305-7.
- Wiswesser; Acyclic; Benzene; Chemical structure notations; Connection tables; Contractions; Ring system; Syntax analysis; Transformation algorithm; 10550. SP305-1.
- Wiswesser; Acyclic; Benzene; Chemical structure notations; Connection tables; Contractions; Ring system; Syntax analysis; Transformation algorithm; TN432. SP305-1.
- Wiswesser; Acyclic; Benzene; Chemical structure notations; Connection tables; Contractions; Ring system; Syntax analysis; Transformation algorithm; 10947. SP305-2.
- With and without forced air; Velocity; Carpets with and without underlayment; Corridor fires; Energy models; Finished interior; Full scale experiments; Interaction; Measurements; Smoke; Smoke and flame spread; Temperature; 15230. SP305-7.
- Within-group variance; Between-group variance; Mass comparisons of 1969; Systematic and random weighing errors; SP335, pp. 41-45. SP305-3.
- W.K.B; Atomic lines; Band strengths; Broadening; Continuum-continuum transitions; Diatomic molecules; Emission absorption; Interaction potential; Pressure broadening; Quantum mechanics; Wavefunctions; 10492. SP305-1.
- W-Mo alloys; Electron probe analysis; Metallography; Powder metallurgy; Spectrometric standards; Standard Reference Materials; SP260-16. SP305-1.
- Wodginite; Crystal structure; Lithium tantalate;  $M-LiTaO_3$ ; 15974. SP305-8.
- Wolf-Rayet nuclei; Central stars of planetary nebulae; Instability limit; Nongray; SP332, pp. 54-60. SP305-2.
- Wolf-Rayet stars; Atomic cross sections; Atmospheric aerodynamics; Diagnostic spectroscopy; Non-equilibrium gases; Stellar instability; SP307. SP305-1.
- Wolf-Rayet stars; 11156. SP305-2.
- Women, strength of; Automotive braking systems; Brakes; Brake pedal forces; Federal Motor Vehicle Safety Standards; Pedal effort; TN557. SP305-2.
- Wood; Wood joists; Concentrated loads; Deflection; Floor hardwood; Housing; Impact energy; Operation BREAKTHROUGH; Plywood; Subfloors; Underlayment; 13472. SP305-5.
- Wood; Wood joists; Concentrated load; Deflection; Floor; Hardboard; Housing; Impact energy; Operation BREAKTHROUGH; Plywood; Subfloors; Underlayment; BS552. SP305-6.
- Wood crib; Buildings; Fire growth; Flame spread; Heat release; Interior linings; Material ignitability; Performance criteria; Room fires; Smoke; TN846. SP305-6.
- Wood crib; Buildings; Fire growth; Flame spread; Heat release; Interior linings; Material ignitability; Performance criteria; Room fires; Smoke; TN879. SP305-7.
- Wood crib; Buildings; Fire intensity; Flame spread; Flames; Furnishings; Heat release; Interior linings; Material ignitability; Room fires; Smoke; Upholstery; Waste receptacle; SP411, 125-138. SP305-6.
- Wood door units; Door units, wood; Hinged door units, interior; Prefabricated door units; PS32-70. SP305-3.
- Wood fibers; Asphalt; Asplund; Felt; Mineral-surfaced roll roofing; Shingles; TN477. SP305-1.
- Wood floor; Wood joist; Fire endurance; Fire test; Flame through; Full scale; Housing; Operation BREAKTHROUGH Single family residence; Small scale; Thermal resistance 13790. SP305-5.
- Wood frame; Building; Design criteria; Drift; Field test; Floor vibration; SP361, Vol. 1, pp. 275-288. SP305-4.
- Wood frame construction; Building damping; Drift; Dynamics Earthquake; Frequency; Housing; Lateral resistance Racking; Stiffness; Structural deflections; Vibration; Wind load; BS544. SP305-5.
- Wood joist; Fire endurance; Fire test; Flame through; Full scale; Housing; Operation BREAKTHROUGH; Single family residence; Small scale; Thermal resistance; Wood floor 13790. SP305-5.
- Wood joists; Concentrated load; Deflection; Floor; Hardboard Housing; Impact energy; Operation BREAKTHROUGH Plywood; Subfloors; Underlayment; Wood; BS552. SP305-6.
- Wood joists; Concentrated loads; Deflection; Floor hardwood Housing; Impact energy; Operation BREAKTHROUGH Plywood; Subfloors; Underlayment; Wood; 13472. SP305-5.
- Wood particleboard; Mat-formed particleboard; Particleboard requirements; Particleboard, wood; CS236-66. SP305.
- Wood pulp; Aluminum; Calcium; Carboxylic acid; Cellulose Differential thermal analysis; Hemicellulose; Ion exchange PH; Pyrolysis; Thermal stability; Thermogravimetric analysis 13109. SP305-5.
- Wood-frame; Deflection; Housing; Laboratory; Module Racking; Stiffness; Strength; Structural tests; Sustained load Transportation; Vibration; 13389. SP305-5.
- Wood-frame construction; Concentrated load capacity; Evaluation criteria; Floors; Hardboard; Load capacity; Operation BREAKTHROUGH; Performance criteria; Plywood subflooring; Subflooring; Underlayment; 13388. SP305-5.
- Wood-frame construction; Evaluation criteria; Floors; Hardboard; Load capacity, performance criteria; Plywood subflooring; Subflooring; Underlayment; BS553. SP305-6.
- Wool; Cotton; Cotton/polyester; Extinguishment; Fabric flammability; Fabrics; Fibers; Finishes; Flame retardant treatments; Nylon; NBS-GCR-76-71. SP305-8.
- Wool standards; Accrual fading; Fading; Light-sensitive paper; Paper, light-sensitive; Standard Fading Hour; 11794. SP305-2.
- Word; Cancellation; Commutator subgroup; Modular group; Multiplier; J72B No. 4, 253-261 (1968). SP305-1.
- Word; Information; "Information explosion"; Information producer; Information user; Knowledge; Scientific literature 11713. SP305-2.
- Word lengths as block codes; Speech intelligibility as channel capacity; Articulation function of ear; "bit" capacity of ear; Channel capacity of ear; Distinctive features of ear and hearing; Intelligibility vs word lengths as block codes; Speech 12442. SP305-4.
- Word-term pairing; Automatic indexing; COBOL; Document records; Programming; Statistical analysis; Teaching sample 12858. SP305-4.
- Work; Bibliography; Effort; Environment; Fatigue; Human performance; Human physiology; Psychology; Psychophysical Stress (physiological); Stress (psychological); SP319. SP305-2.
- Work; Computer efficiency; Evaluation; Measurement; Performance; Power; SP406, pp. 131-134. SP305-7.
- Work; Home noise; Noise sources; Recreational; 14270. SP305-6.
- Work atmosphere; Air analysis; Air sampler; Charcoal Chlorine; Fluorine; Gas analysis; Hydrogen cyanide Hydrogen fluoride; Industrial hygiene; Phosphine; Sodium acetate; Sorber, solid; NBSIR 74-527. SP305-6.
- Work atmosphere; Air analysis; Air sampling; Gas analysis Hydrogen fluoride; Industrial hygiene; Sodium acetate Sorber; Solid; NBSIR 74-581. SP305-7.



work atmosphere; Air analysis; Air sampling; Gas analysis; Industrial hygiene; Phosphine; Sorber; *NBSIR 75-977. SP305-8.*

work atmosphere; Air analysis; Air sampling; Gas analysis; Hydrogen cyanide; Industrial hygiene; Ion selective electrode; Sodium hydroxide; *NBSIR 76-998. SP305-8.*

work function; Adsorption; Carbon monoxide; Chemisorption; Desorption; Electron reflection; Nitrogen; Oxygen; Single crystal; Sticking coefficient; Thermionic emission; *10392. SP305-1.*

work function; Adsorption; Cesium; Desorption; Electron reflection; Electron stimulated desorption; Gallium arsenide; *12108. SP305-3.*

work function; Adsorption; Chemisorption; Desorption; Dissociation; Field emission microscopy; Kinetic; Nitric oxide; Surface; Surface diffusion; Tungsten; *9421. SP305.*

work function; Adsorption; Chemisorption; Desorption; Electron reflection; Electron stimulated desorption; Oxygen; Single crystal W(100); Surface; Tungsten; *14443. SP305-6.*

work function; Adsorption; Field emission; Methane; Physical adsorption; Single crystal; Tungsten; *12735. SP305-4.*

work function; Adsorption; Hydrogen evolution; Polycrystalline tungsten; Room temperature; Ultra-high vacuum; Water vapor; *11563. SP305-2.*

work function; Adsorption; Nitrogen; Physical adsorption; Tungsten; *16460. SP305-8.*

work function; Aluminum; Field emission; Tungsten; *14780. SP305-7.*

work function; Binding energy; Chemisorption; Displacement; Hydrogen; Methane; Oxygen; Tungsten; *12736. SP305-4.*

work function; Binding state; Chemisorption; Hydrogen; Isotopes; Single crystal; Tungsten; *11753. SP305-2.*

work function; Carbon contamination; Electronic density of states; Photoemission; Tungsten (W); UV photoemission; *SP323, pp. 199-203. SP305-4.*

work function; Carbon monoxide; Chemisorption; Co-adsorption; Displacement reaction; Hydrogen; Single crystal; Tungsten; *12261. SP305-3.*

work function; Chemisorption; Flash desorption; Hydrogen; Nitrogen; Tungsten; Tungsten (100) plane; *12125. SP305-3.*

work function;  $C_2H_4$  decomposition; Chemisorption bonds; LEED; Photoelectron spectra; Tungsten; *14807. SP305-7.*

work function; Electron energy distribution; Field emission; Tungsten; *15091. SP305-7.*

work function; Energy distribution; Field emission; Patch fields; Single crystal planes; *9423. SP305.*

work function; Xenon; Desorption energy; Desorption kinetics; Physical adsorption; Tungsten (111); *15201. SP305-7.*

work function; (110) plane; Energy distribution; Field emission; Patch fields; Tungsten; *9424. SP305.*

work function Auger spectroscopy; Carbon monoxide; Chemisorption; Defraction low energy electron; Ruthenium; *14945. SP305-7.*

work hardening; Equivalent strain; Hardening; Plasticity; Strain hardening; *J76C Nos. 1 and 2, 53-54 (1972). SP305-4.*

work positioner; Conductometry; Decoding matrix; Fluoroolefins; Integrator; Magnetic sensing probe; Magnetic tape; Microbridge; Numbering machine; Perfluorostyrene; Shaft position encoder; Staple detector; Superconducting; Synthesis, chemical; *TN744. SP305-4.*

workhardening; Fracture; Initial cracking; Multiaxial stresses; Notch geometry; 310 stainless steel; Stress concentrations; Tensile deformation; *9735. SP305-1.*

working with government; Consumer activism; Control proliferation; Industry; Interaction; Package quantity standards; Voluntary standards; *15504. SP305-7.*

workload; Computer system; Factors; Measurement; Parameters; Performance; Performance terminology; Predictability; Requirements; Variables; *SP406, pp. 53-60. SP305-7.*

Workload; FORTRAN IV; Operating system; Overhead; Resource allocation; Simulator; Strategies; *16062. SP305-8.*

Workload characterization; Benchmarking; Charging algorithms; Service bureaus; Synthetic benchmarking; *16624. SP305-8.*

Workload characterization; Benchmarking; Charging algorithms; Service bureaus; Synthetic benchmarking; *TN920. SP305-8.*

Workload definition; Benchmarking; Bibliography; Computer performance measurement; Computer procurement; *SP405. SP305-6.*

Workload representation; Benchmarking; Benchmark mix demonstration; Computer selection; Federal Information Processing Standard; *FIPS PUB 42. SP305-7.*

World days service; Radio science; *9189. SP305.*

World Meteorological Organization; International Pyrheliometric Scale; Irradiance; Pyrheliometer; *13555. SP305-5.*

World Meteorological Organization (WMO); Analytical methods; Data reporting procedures; Intergovernmental Oceanographic Commission (IOC); Marine pollution (petroleum) monitoring; Maritime Administration (MarAd); *SP409. SP305-6.*

World trade; Cryogenics; Economic forecasts; International conferences; Liquefied natural gas; *12616. SP305-4.*

World trade; Developing countries; International standards; Role of government; Role of private enterprise; Technology; *M284. SP305.*

World trade; International Organization for Standardization; International standards; Technology transfer; *10149. SP305-1.*

Worldwide clock synchronization; Multiple VLF transmissions; Portable clock; Standard time broadcasts; VLF propagation; *9711. SP305-1.*

Worldwide geodetic network; Continental drift; Distance measurements; Geodesy; Geodetic satellite; Geophysics; Laser; *10733. SP305-1.*

Worldwide radio stations; Atomic time; Frequency and time; International Time Bureau; Standard audio frequencies; Standard radio frequencies; Time and frequency; *9537. SP305-1.*

Woven metal; Electrical measurements; Fluid pressure seal; Pressed woven metal; Radiofrequency; Waveguide joints; *9765. SP305-1.*

W-Re; Alloys; Bcc transition metal alloys; Charging effect; Electronic density of states; Ginzburg-Landau coherence length; G.P. zone; Hf-Ta; Low-temperature specific heat; Magnetic susceptibility; Omega phase; *SP323, pp. 587-596. SP305-4.*

W-Re alloys; W-Re type thermocouples; W-Re thermoelements; Beryllium oxide; Ductility; Emf-temperature relationship; Microstructure; Thermocouple drift; *13585. SP305-5.*

W-Re thermoelements; Beryllium oxide; Ductility; Emf-temperature relationship; Microstructure; Thermocouple drift; W-Re alloys; W-Re type thermocouples; *13585. SP305-5.*

W-Re type thermocouples; W-Re thermoelements; Beryllium oxide; Ductility; Emf-temperature relationship; Microstructure; Thermocouple drift; W-Re alloys; *13585. SP305-5.*

Wring test; End length standards; Gage blocks; Joining; Wringing; *J77A No. 5, 667-670 (1973). SP305-5.*

Wring tests; Capacitance; Diaphragm pressure transducer; Environment; Meniscus characteristics; Mercury manometer; Pressure; Pressure regulator; Vacuum joints; Vacuum valves; *11628. SP305-2.*

Wringing; Capacitance probe; Cylindrical gauge blocks; Inside diameters; Small-bore tubes; Standard hole; *12277. SP305-3.*

Wringing; Wring test; End length standards; Gage blocks; Joining; *J77A No. 5, 667-670 (1973). SP305-5.*

Written language; Human communication; Language; Meaning; Symbols; Understanding; *13233. SP305-5.*

Wrought gold wire; X-ray emission; Casting gold alloys; Chemical composition; Dental gold alloys; Gold; Platinum; *11579. SP305-2.*

WR-12; Connector; Millimeterwave; Reflectometer; 10699. SP305-1.

WR-12 waveguide; Millimeter wave; Reflectometer; 11049. SP305-2.

$W_{\text{abs}}$ ; Absorbed dose; Calorimeter; Cavity ionization chamber; Cobalt-60 gamma rays; Comparison; Graphite; *J.71C1-440, 19-27 (1967)*. SP305.

W-spin; Collinearity; Lorentz invariance; 9897. SP305-1.

Wurtzite-type; Chalcopyrite-type; Silver indium sulfide; Spinel-type; 13251. SP305-5.

W-value; Charged particle penetration; Dosimetry; Electron slowing down; Electron transport; Scaling; 15156. SP305-7.

WWV; High frequency; Standard radio frequencies; Time-frequency broadcasts; Time signals; *TN611*. SP305-4.

WWV; High frequency broadcasts; Standard frequencies; Time signals; 11468. SP305-2.

WWV; WWVB; WWVH; WWVL; Atomic clocks; Atomic standards; Clock dissemination; Crystal oscillators; Definition of second; Flicker noise; Frequency; Frequency stability; Lasers; Length standards; Measurement standards; Spectral density; *SP350*. SP305-3.

WWV; WWVH; Clocks; H. F. Broadcasts; Sunspot cycle; Time signals; 12594. SP305-4.

WWVB; WWVH; WWVL; Atomic clocks; Atomic standards; Clock dissemination; Crystal oscillators; Definition of second; Flicker noise; Frequency; Frequency stability; Lasers; Length standards; Measurement standards; Spectral density; Speed of light; *SP350*. SP305-3.

WWVH; Clocks; H. F. Broadcasts; Sunspot cycle; Time signals; *WWV, 12594*. SP305-4.

WWVH; WWVL; Atomic clocks; Atomic standards; Clock dissemination; Crystal oscillators; Definition of second; Flicker noise; Frequency; Frequency stability; Lasers; Length standards; Measurement standards; Spectral density; Speed of light; *SP350*. SP305-3.

WWVL; Atomic clocks; Atomic standards; Clock dissemination; Crystal oscillators; Definition of second; Flicker noise; Frequency; Frequency stability; Lasers; Length standards; Measurement standards; Spectral density; Speed of light; *SP350*. SP305-3.

W-Re alloys; EMF-temperature relationship; Furnace; High temperature; Refractory metals; Thermocouple; Thermoelements; Sensor; Ultrahigh vacuum; *J.75C No. 2, 99-106 (1971)*. SP305-3.

WWVL; Effect of mass on frequency; Flicker noise; NBS; Noise correlation; NSS; Optimum filter; Phase noise; Radio propagation; Time comparison; USNO; VLF propagation; 11241. SP305-2.

WWV/WWVH; Accelerator facilities; Computers; Court records; Fire safety; Forensic science; Law enforcement; Methane; Metric; Police protection; Safer streets; Security systems; *DIM/NBS 59, No. 3, 49-72 (1975)*. SP305-7.

WWV/WWVH; Computer; Energy measurement; EPIC; FIPS; Kitchen ranges; Mercury; Metal fires; Metric; Safety; *DIM/NBS 60, No. 1, 1-24 (1976)*. SP305-8.

Wye-delta network reductions; Capacitated vertices; Delta-wye network reductions; Flows in networks; Graph theory; Mathematics; Network simplification; Single commodity flows; 10656. SP305-1.

Wyoming; Correlation; Geochronology; Geology; Montana; Precambrian; 9627. SP305-1.

W-3% Re and W-25% Re thermoelements; Argon; Evaporation; Exposure; Hydrogen and high vacuum environments; Metallographic examination; Stability; Thermal emf; 11683. SP305-2.

- and  $\gamma$ -rays; Cyanides; Dosimetry; Dyes; Electron beams; Reflection densitometry; Spectrophotometry; Triphenyl methane; *11644. SP305-2.*
- Xanthene dyes; Aminocoumarins; Carbazine dyes; Deuterium effect; Fluorescence quantum yield; Laser dyes; Molecular structure; Oxazine dyes; Quenching; *J. Res. 80A No. 3, 421-428 (1976). SP305-8.*
- X-band; Cavity stabilization; Frequency multiplication; Frequency stability; Frequency synthesis; Gunn oscillator; Infrared; Injection stabilization; Klystron; *16520. SP305-8.*
- X-band; Electron-paramagnetic-resonance spectra; High resolution; L-uncoupling effects; Microwave frequencies; S-band microwave frequencies; *9606. SP305-1.*
- X-band measurements; Diodes; Gamma rays; Hardness assurance; Microwave mixer diodes; Mixers; Neutrons; Radiation hardness; Receivers; Schottky-barrier diodes; Semiconductor; Solid-state devices; *SP400-7. SP305-8.*
- X; CO<sub>2</sub>; Critical exponents; Critical point; Equation of state; *SF<sub>6</sub>, 16081. SP305-8.*
- Xenon; Absolute; Cross section; Electron; Generalized oscillator strengths; Theory; *11017. SP305-2.*
- Xenon; Argon; Correlation; Critical data evaluation; Critical point; Dense gas and liquid; Excess transport property functions; Krypton; Nitrogen; Oxygen; Tables; Thermal conductivity coefficient; *J. Phys. Chem. Ref. Data 3, No. 4, 979-1018 (1974). SP305-6.*
- Xenon; Argon; Extraphotographic region; Infrared emission spectra; Intensities; Neon; Wavelengths; Wavelength standards; Wave numbers; *J. Phys. Chem. Ref. Data 2, No. 3, 519-530 (1973). SP305-6.*
- Xenon; Atomic spectra; Krypton; Photoionization; Vacuum ultraviolet; *9208. SP305.*
- Xenon; Autoionization; Far ultraviolet; Krypton; Photoionization; Resonances; *J.76A No. 1, 1-12 (1972). SP305-4.*
- Xenon; Autoionization; Far ultraviolet; Krypton; Photoionization; Resonances; *12691. SP305-4.*
- Xenon; Autoionizing states; Electron excitation; Energy loss; Resonances; Threshold; *15442. SP305-7.*
- Xenon; Chemisorption; ESCA; Oxygen; Physical adsorption; Tungsten; *15347. SP305-7.*
- Xenon; Compressibility; Critical point; Equation of state; Fluid; Helium; Low temperature; Methane; Scaling law; Specific heat; *J.76A No. 3, 207-211 (1972). SP305-4.*
- Xenon; CO<sub>2</sub>; Chemical potential; Critical point parameters; Critical region; Fluids; He<sup>+</sup>; Scaling laws; Specific heat; Thermodynamic properties; Vapor pressure; *J.73A No. 6, 563-583 (1969). SP305-1.*
- Xenon; Cross section; Inner-shell excitation; Krypton; Photoionization; Vacuum ultraviolet; *16541. SP305-8.*
- Xenon; Crystal field; Photoemission; Physisorption; Tungsten (100); *15813. SP305-8.*
- Xenon; Desorption energy; Desorption kinetics; Physical adsorption; Tungsten (111); Work function; *15201. SP305-7.*
- Xenon; Electronic density of states; Electron synchrotron light; Krypton; Optical absorption; *SP323, p. 279. SP305-4.*
- Xenon; M-shell; Photoionization; *10477. SP305-1.*
- Xenon; Transport coefficients; Correlations; M-6; Kihara; Exp; 6; Morse; Potential functions; Dilute gases; Neon; Krypton; *TN352. SP305.*
- Xenon; XPS; Carbon monoxide; Chemisorption; ESCA; Extra-atomic relaxation; Formaldehyde; Oxygen; Photoelectron spectroscopy; Physisorption; Tungsten; *16023. SP305-8.*
- Xenon; 4d absorption; Atomic structure; Inner shell; *N<sub>IV</sub>*; Resonance cross section profiles; Spectroscopy; Vacuum ultraviolet; *15054. SP305-7.*
- Xenon arc; Carbon arc; Degradation; Irradiance; Photodegradation; Plastics; Polymers; Radiation; Radiometry; Sun; Weathering; *10472. SP305-1.*
- Xenon-arc irradiation; Atmospheric exposure; ATR spectroscopy; Clear and pigmented films; Infrared analysis; Internal reflection spectroscopy; Mercury-arc irradiation; Organic coatings; Photodegradation; Surface degradation; *SP336, pp. 299-312. SP305-3.*
- Xenon excitation functions; Electron impact; Uv lasers; *14609. SP305-6.*
- Xenon laser; Absolute frequency measurements; Laser frequency synthesis; *15014. SP305-7.*
- Xenon-mercury, arc lamp; Arsenic; Atomic absorption; Atomic spectrometry; Background, correction; Nonflame, atomization; Stray light; *15894. SP305-8.*
- Xenon-131m; Argon-37; Carbon-14; Internal gas counting; Radioactive standardization; Tritium; *14297. SP305-6.*
- Xenon-133, 131m; Argon-37; Direct standardization; Environmental radioactivity; Internal gas counters; Isotope separator; Krypton-85; Proportional counters; Radioactivity standardization; *15948. SP305-8.*
- X-F bonds; Fluorine; Polarization of bonds; Proton assisted reactions; *13368. SP305-5.*
- X particles; Angular distributions; Gamma-gamma correlations; Quark models; Symmetries;  $\psi$  particles; *15962. SP305-8.*
- XPS; Carbon monoxide; Chemisorption; ESCA; Extra-atomic relaxation; Formaldehyde; Oxygen; Photoelectron spectroscopy; Physisorption; Tungsten; Xenon; *16023. SP305-8.*
- X-radiographic paper; Image quality; Neutron converters; Neutron radiography; Neutron scintillator; Thermal neutron detection; *15549. SP305-7.*
- X-radiography; Dimensional measurement; Gamma radiography, image enhancement; Neutron radiography; Non-destructive testing; Proton radiography; Real-time techniques; Three-dimensional radiography; *15214. SP305-7.*
- X-radiography; End fitting; Glass-reinforced-plastic rod end fitting; Nondestructive examination; Neutron radiography; Ultrasonics; *NBSIR 76-1084. SP305-8.*
- X-ray; Absorption; Fine structure; K-edge; Molecular gas; *SF<sub>6</sub>*, sulfur; *9879. SP305-1.*
- X ray; Absorption; Fine structure; Perovskites; *11919. SP305-3.*
- X ray; Absorption; Light; Oscillator strength; Spectra distribution; *10934. SP305-2.*
- X ray; Absorption correction; Diffraction; *12053. SP305-3.*
- X-ray; Absorption correction; Weissenberg methods; *10045. SP305-1.*
- X-ray; Alloys; Dislocation; Stacking-fault energy; Stacking-fault probability; *12893. SP305-4.*
- X ray; Alpha particle; Beta particle; Gamma-ray; Radioactivity; Sediment; Standard; *15933. SP305-8.*
- X ray; Analytical curves; Analytical functions; Emission spectrometry; Fluorescence spectrometry; Spectrochemical analysis; Statistics; *11386. SP305-2.*
- X ray; Asymmetric; Diffraction; Intensifier; Topography; *16356. SP305-8.*
- X-ray; Attachment, low-temperature; Radiation shield; Temperature gradient; *15242. SP305-7.*
- X ray; Attenuation coefficient; Cross section; Dosimetry; Energy-absorption coefficient; Gamma-ray; Photon; *SP456, pp. 299-306 (Nov. 1976). SP305-8.*
- X ray; Automation; Calibration; Computer; Recordkeeping; *SP456, pp. 53-57 (Nov. 1976). SP305-8.*
- X ray; Avogadro; Crystal; Physical constant; *16223. SP305-8.*
- X-ray; BaO-B<sub>2</sub>O<sub>3</sub>; Barium borate; Borate; Crystal; Structure; *9943. SP305-1.*
- X-ray; Barium tetragermanate; Structure; Benitoite; Crystal; *J.70A5-411, 385-391 (1966). SP305.*
- X-ray; Betaine form; Pyrazole; Structure; *10227. SP305-1.*
- X-ray; Bromine; Copper; Crystal; Pyridine N-oxide; Structure; *12661. SP305-4.*
- X-ray; Cadmium; Coordination complex; Crystal structure; Imidazole; *12546. SP305-4.*

- X-ray; Camera; Diffraction; Dislocation; Topography; 9880. SP305-1.
- X-ray;  $\text{CaTiGeO}_3$ ;  $\text{CaTiSiO}_3$ ; Crystal; Mineral; Space group; Synthetic sphene; 10776. SP305-1.
- X-ray; Channelling of electrons; Crystal orientation; Kossel; Lattice spacing determination; Microdiffraction; Scanning electron microscopy; Strain analysis; 14913. SP305-7.
- X-ray; Cobalt; Complexes; Hexakis(imidazole)cobalt(II) nitrate; Imidazole, neutron; Structure; 15280. SP305-7.
- X-ray; Crystal structure; Sodium tetraborate; Symbolic addition; 9801. SP305-1.
- X-ray; Crystal surfaces; Density; Lamella thickness; Paraffins; Polyethylene; Unit cell; 14724. SP305-7.
- X-ray; Dental; KVp; SP456, pp. 395-401 (Nov. 1976). SP305-8.
- X-ray; Diffraction; Diffractometer; Neutrons; Simultaneous; Three-circle; 9524. SP305.
- X-ray; Diffraction; Direct methods; Explosives; Single-crystal; Triazine; 15735. SP305-8.
- X-ray; Interferometer; Lattice parameter; 11497. SP305-2.
- X-ray; Laser rod; Orientation; Ruby; Single crystal; Topography; 12066. SP305-3.
- X-ray; Law enforcement; Voluntary standards; 12781. SP305-4.
- X-ray; Octahedral complex; Single crystal; Structure; Tetakis-pyrazole-nickel chloride; 10240. SP305-1.
- X-ray; Wavelength; Conversion factor; Interferometer; Lattice repeat distance; 14232. SP305-6.
- X-ray absorptiometry; X-ray fluorescence analysis; X-ray scans; Analytical curve functions; Color composite; Computer programs; Electron probe; Gold analysis; Isotope dilution method; Laser probe; Metal foil analysis; Microanalysis; TN502. SP305-2.
- X-ray absorption; Be;  $\text{BeO}$ ; Electron energy loss; Fine structure; K edge; 11150. SP305-2.
- X-ray absorption; X-ray emission; Atomic number effect; Biological specimens; Electron probe microanalysis; Electron scattering; Fluorescence by the continuum; Quantitative analysis; Stereometric analysis; SP298. SP305-1.
- X-ray absorption; X-ray emission; Electron probe microanalysis; Errors; Fluorescence; Iteration; 12537. SP305-4.
- X-ray absorption; X-ray inelastic scattering; Energy transfer; Lithium; Momentum transfer; 13983. SP305-6.
- X-ray absorption; X-ray inelastic scattering; Compton scattering; Plasmon scattering; Raman scattering; Relation between spectra; 12409. SP305-4.
- X-ray absorption coefficients; X-ray fluorescence analysis; Vacuum spectrometer; Computing; Digital readout; Electron probe; Gold analysis; Isotope dilution method; Laser probe; Liquid Q-switch; Mass attenuation coefficients; Microphotometer; TN422. SP305-1.
- X-ray absorption coefficients; X-ray fluorescence analysis; X-ray mass attenuation coefficients; Zinc analysis; Computing; Digital readout; Electron probe; Emulsion calibration; Emulsion sensitivity; Gold analysis; Isotope dilution method; TN452. SP305-1.
- X-ray absorption factor; Absorption correction; Primary emission; Quantitative electron probe analysis; 15722. SP305-8.
- X-ray absorption of sulphur K, L and fluorine K; X-ray emission of sulphur K $\alpha$ , K $\beta$ , L and fluorine K $\alpha$ ; Molecular orbital model; Photon and electron excited emission spectra; Resonance radiation; 13101. SP305-5.
- X-ray analysis; Absorption; Atomic number; Chemical elements; Computation procedure; Data reduction; Electron probe microanalysis; Fluorescence; Time-sharing; TN719. SP305-4.
- X-ray analysis; Calibration; Filters; Orchard leaves; Reference sample; 15984. SP305-8.
- X-ray analysis; Calibration; Filters; Orchard leaves; Standard reference sample; 16065. SP305-8.
- X-ray analysis; Color composite technique; Counting statistic; Electron beam scanning; Electron probe microanalysis; 15787. SP305-8.
- X-ray analysis; Copper; Electron channeling; Electron microscope; Metals; Particle analysis; Plastic deformation; Surfaces; Wear; Wear debris; NBSIR 76-1141. SP305-8.
- X-ray analysis; Electron microscopy; Fe-Cr alloys; Passive film; Pitting corrosion; Stainless steel; 16024. SP305-8.
- X-ray analysis; Electron probe microanalysis; Monte Carlo electron trajectory calculations; Nuclear backscattering analysis; Scanning electron microscopy; Thin films; SP460, pp. 125-138 (Dec. 1976). SP305-8.
- X-ray analysis; Electron probes; Metallography; Microanalysis; Petrography; Specimen preparation; 10617. SP305-1.
- X-ray analysis; X-ray diffraction; Statistics; Computer programs; Fourier analysis; Nickel steels; TN600. SP305-3.
- X-ray analysis; X-ray fluorescence; Automation; Defraction; Detectors; Spectrometry; 14384. SP305-6.
- X-ray attenuation; Absorption fine structure; Mixture rule; 10899. SP305-2.
- X-ray attenuation; Concrete shields; Gamma-ray attenuation; 10480. SP305-1.
- X-ray attenuation coefficients; Compilations; Energy absorption coefficients; Gamma ray coefficients; Photon attenuation coefficients; Photon cross sections; 11330. SP305-2.
- X-ray back-reflection; Calcium molybdate; Crystal orientation; Crystallographic groups; Interplanar angles; Physical properties; Scheelite structure; Single crystal; J.70A5-410, 379-38 (1966). SP305.
- X-ray beams; Beryllium to gold; Electron produced; High intensity; Monochromatic yields; Purity; 12214. SP305-3.
- X-ray calibration; X-ray measurements; Standard reference materials; 14512. SP305-6.
- X-ray continuum radiation; Elemental distribution; Energy dispersive x-ray analysis; Light element analysis; Scanning electron microscopy; Thin film x-ray analysis; 15771. SP305-8.
- X-ray conversion factor; X-ray wavelengths; Avogadro number; Compton wavelength; Gamma-ray wavelength; Lattice parameters; 14267. SP305-6.
- X-ray crystallography; Clusters; Metal-metal bonding; Metal sulfides; Sulfides; Tungsten; 16071. SP305-8.
- X-ray crystal structure; Bismuth; Borate; 12903. SP305-4.
- X-ray crystal structure; Coordination complex; Tetragonal nickel(II); 11228. SP305-2.
- X-ray crystal structure; Heteropolymolybdate; 11979. SP305-3.
- X-ray departments; X-ray trends; Diagnostic; Nationwide evaluation; Physician; Technologist; SP456, pp. 147-15 (Nov. 1976). SP305-8.
- X-ray detectors; Dosimetry; Dyes; Gels; Microdosimetry; Plastics; Radiochromism; Triphenylmethane dyes; Vinyl resins; 14659. SP305-6.
- X-ray diffraction; Absorption; Distortion; Lattice sum; Lin broadening; Perfect crystal; Scattering amplitude; Theory; 10573. SP305-1.
- X-ray diffraction; Absorption correction; Bromine; Crystal structure; High-pressure; 11108. SP305-2.
- X-ray diffraction; Adherence; Aluminum; Electron microprobe; Electron microscope; Porcelain enamel; Spalling; BSS59. SP305-6.
- X-ray diffraction; Alloys; Compounds; Intermetallic; Knight shift; Nuclear magnetic resonance; Sodium; Thallium; 10280. SP305-1.
- X-ray diffraction; Amorphous boron; Anhydrous boric acid; Boric oxide; Boron carbide structure type; Boron suboxide; Crystal structure; Decompose; Electron microbeam probe; Infrared spectrum; Lattice parameters; Pycnometer; SP366, pp. 605-611. SP305-4.
- X-ray diffraction; Analytical methods; Industrial hygiene; Quartz; Silicosis; 13975. SP305-6.



- X-ray diffraction; Anisotropic; Beta-naphthyl group; Block polymers; Bonds; Crystallization; Elastomers; Expansivity; Forces; Phenyl-beta-naphthylamine; Stiffening; Vulcanization; 11144. SP305-2.
- X-ray diffraction; Anisotropic compressibility; Azides; Compressibility; High pressure; Single crystal; 12025. SP305-3.
- X-ray diffraction; Anomalous transmission; Atomic displacement; Debye-Waller factor; Distorted crystal; Laue case; Photon Green's function; Theory; 10383. SP305-1.
- X-ray diffraction; Apatite; Dehydroxylation; High temperature; Phosphates; J.72A No. 6, 783-787 (1968). SP305-1.
- X-ray diffraction; Atom; Bragg condition; Displacement; Distorted crystal; Electron overlap; Green's function; Lattice; Photon; Theory; 10384. SP305-1.
- X-ray diffraction; Atom; Displacement; Distorted crystal; Energy flow; Finite beam; Theory; Wave field; Wave packet; 11031. SP305-2.
- X-ray diffraction; Austenite; Computer; Ferrite; Phase measurement; Quantitative analysis; Retained austenite; TN709. SP305-4.
- X-ray diffraction; Austenite; Iron alloys; Stacking fault energy, stainless steel; 15139. SP305-7.
- X-ray diffraction; Beta tricalcium phosphates; Cation vacancies; Positional disorder; Single crystal; 14540. SP305-6.
- X-ray diffraction; Calcium coordinations; Calcium phosphates; Hydrogen bonding; Mononite single crystals; 12914. SP305-4.
- X-ray diffraction; Calcium fluoroborate; Calcium salts; Crystal structure; Single crystal; Tetrahedral anion; 14976. SP305-7.
- X-ray diffraction; Cerium oxide; Magneto-hydrodynamics; System  $K_2O-ZrO_2$ -cerium oxide; Thermal microbalance; 16440. SP305-8.
- X-ray diffraction; Cesium; Gallium; High-pressure; Polymorph; Single crystal; 12187. SP305-3.
- X-ray diffraction; Chlorides, crystal structures; Double chlorides; Lattice constants; Melting point; Perovskites; Polymorphism; J.73A No. 6, 621-626 (1969). SP305-1.
- X-ray diffraction; Compilations; Crystallographic data; Diffraction; 10678. SP305-1.
- X-ray diffraction; Compressibility; Single crystal; 14895. SP305-7.
- X-ray diffraction; Constants; Crystal; Lattice; Measurements; Powder-patterns; Reference-intensities; Standard; Structure; Mono. 25, Section 5. SP305.
- X-ray diffraction; Constants; Crystal; Lattice; Measurements; Powder-patterns; Reference-intensities; Standard; Structure; Monogr. 25, Section 6. SP305-1.
- X-ray diffraction; Crystal orientation; Error propagation; Kossel lines; Lattice spacings; Stress-strain maps; 14625. SP305-6.
- X-ray diffraction; Crystal structure; Hydrazinium; Hydrazinium trinitromethide; Hydrogen bonding; Trinitromethide; J.74A No. 3, 309-318 (1970). SP305-2.
- X-ray diffraction; Crystal structure; Hydrated carbonates; Hydrogen bonding; Sodium carbonate; Thermonatrite; J.74A No. 3, 319-324 (1970). SP305-2.
- X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; Standard; Monogr. 25, Section 9. SP305-3.
- X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; Standard; Monogr. 25, Section 7. SP305-1.
- X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities, powder patterns; Reference intensities; Standard; Monogr. 25, Section 11. SP305-6.
- X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; Standard; Monogr. 25, Section 8. SP305-2.
- X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; Standard; Monogr. 25, Section 12. SP305-7.
- X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; Standard; Monogr. 25, Section 13. SP305-8.
- X-ray diffraction; Crystal structure; Integrated intensities; Lattice constants; Peak intensities; Powder patterns; Reference intensities; Standard; Monogr. 25, Section 10. SP305-4.
- X-ray diffraction; Crystal structure; Organic crystal; 15284. SP305-7.
- X-ray diffraction; Defects; *n*-paraffins; Phase transition; Temperature dependence; J.74A No. 2, 203-214 (1970). SP305-2.
- X-ray diffraction; Deformation; Dislocations; Face-centered cubic metals; Faults; Fourier analysis; Review; Stacking fault energy; 14750. SP305-7.
- X-ray diffraction; Dendrites; Electrocrystallization; Faceting; Silver; Twinning; 10605. SP305-1.
- X-ray diffraction; Density expansion; Liquid structure factor; Liquid theory; Neutron diffraction; Pair correlation function; 12795. SP305-4.
- X-ray diffraction; Diamond cell; Electrical resistance; High pressure; Nuclear decay; Pressure calibrations; Spectroscopy; 16375. SP305-8.
- X-ray diffraction; Dislocations; Electron microscopy; Silver-tin alloys; Stacking faults; 9963. SP305-1.
- X-ray diffraction; Divergent x-ray beams; Kossel; Kossel sample preparation; Photographic contrast; Transmission of x-rays; 9521. SP305.
- X-ray diffraction; Dynamical diffraction; Imperfections; Kinematical scattering; Piezoelectric vibration; Secondary extinction; Theory; 12073. SP305-3.
- X-ray diffraction; Dynamical diffraction; Extinction; Kinematical diffraction; Piezoelectricity; Theory; Thickness vibration; Vibrational modes; 11361. SP305-2.
- X-ray diffraction; Dynamical theory; Imperfect crystal; Line broadening; Scattering amplitude; 11638. SP305-2.
- X-ray diffraction; Electrodeposition; Molybdenum dendrites; Twin growth; Twinning; Twin plane reentrant edge; 10732. SP305-1.
- X-ray diffraction; High-pressure; Polymorphism; Single-crystal; 11180. SP305-2.
- X-ray diffraction; High pressure; Single crystal; 11473. SP305-2.
- X-ray diffraction; High pressure; Single crystal; 11474. SP305-2.
- X-ray diffraction; Invar; Iron alloys; Nickel alloys; Stacking fault energy; 16191. SP305-8.
- X-ray diffraction; Liquid; Liquid structure factor; Neutron diffraction; Pair correlation function; Radial distribution function; 13114. SP305-5.
- X-ray diffraction; Neutron diffraction; Percus-Yevick equation; Radial distribution function; Simple liquids; Superposition approximation; Three body correlation function; 12016. SP305-3.
- X-ray diffraction; Statistics; Computer programs; Fourier analysis; Nickel steels; X-ray analysis; TN600. SP305-3.
- X-ray diffraction; X-ray fluorescence; Applied x-ray analysis; Conference report; Material analysis; 12472. SP305-4.
- X-ray diffraction crystallography; Crystallography; Crystal structure/alloys; Gold-cadmium alloys; Phase transformations/solid state; 13036. SP305-4.
- X-ray diffraction data; Binary halides; Crystal structure transformation; Electronic data; Phase transformation; Spectroscopic data; Thermodynamic data; NSRDS-NBS41. SP305-4.
- X-ray diffraction data; Carbonates; Crystal structure transformation; Nitrates; Nitrites; Phase transformation; NSRDS-NBS53. SP305-7.
- X-ray diffraction data; Chromates; Crystal structure; Crystal structure transformations; Perchlorates; Phase transformations; Phosphates; Sulfates; Thermodynamic data; NSRDS-NBS56. SP305-7.

- X-ray diffraction data; Silver; Silver-tin alloys; Stacking fault probability; *11915*. SP305-3.
- X-ray diffraction examination of single crystal lattice damage; (100) surface of copper; Heat transfer to helium II; Interfacial thermal resistance; Kapiza conductance of copper; Kapiza conductance of indium; Kapiza conductance of niobium; *NBSIR 75-812*. SP305-7.
- X-ray diffraction examination of single crystal lattice damage; (100) surface of copper; Heat transfer to helium II; Interfacial thermal resistance; Kapiza conductance; Kapiza conductance of copper; *15737*. SP305-8.
- X-ray diffraction microscopy;  $Al_2O_3$ ; Berg-Barrett; Single crystal; Skew reflection; Vapor growth; *13929*. SP305-6.
- X-ray diffraction microscopy; Dislocations; Failure mechanisms; Second breakdown; Semiconductors; Transistors; *10051*. SP305-1.
- X-ray diffraction microscopy; Dislocations; KD\*P; Lang technique; Solution grown; *14156*. SP305-6.
- X-ray diffraction topography; Crystal perfection; Czochralski growth; Domain walls; Magnetic domains; Nickel single crystals; Surface reflection topography; Transmission topography; *16503*. SP305-8.
- X-ray diffractometer; Automatic control; Computer control; Diffractometer; FORTRAN; Neutron diffractometer; Real-time data processing; Time sharing; *J.74C Nos. 3 and 4*, 89-95 (1970). SP305-2.
- X-ray dynamical diffraction; X-ray topography; Contrast conditions; Dynamical images; Immobile dislocations; Lomer locks; Sessile dislocations; *16373*. SP305-8.
- X-ray edge singularities; Asymmetric lineshapes; Photoelectron spectroscopy; Photoemission; *15133*. SP305-7.
- X-ray emission; Alloys; Corrections; Electron probe; Homogeneity; Matrix scanner; Microanalysis; Quantitative analysis; Standard reference materials; *SP260-28*. SP305-3.
- X-ray emission; Atomic number effect; Biological specimens; Electron probe microanalysis; Electron scattering; Fluorescence by the continuum; Quantitative analysis; Stereometric analysis; X-ray absorption; *SP298*. SP305-1.
- X-ray emission; Casting gold alloys; Chemical composition; Dental gold alloys; Gold; Platinum; Wrought gold wire; *11579*. SP305-2.
- X-ray emission; Electron bombardment; Lead myristate analyzing crystal; M. O. correlation; Nitrogen K emission spectrum; Resonance radiation; *12738*. SP305-4.
- X-ray emission; Electronic density of states; Ferromagnetism; Iron; Optical reflection; Photoemission; *SP323*, pp. 47-52. SP305-4.
- X-ray emission; Electron probe microanalysis; Errors; Fluorescence; Iteration; X-ray absorption; *12537*. SP305-4.
- X-ray emission; Electron trajectories; Magnetic effects; Monte Carlo calculations; Multiple scattering x-ray generation; Particle analysis; Quantitative x-ray microanalysis; Thin films; *SP460*, pp. 105-128 (Dec. 1976). SP305-8.
- X-ray emission; Gold and platinum group alloys; Noble metal alloys; *10343*. SP305-1.
- X-ray emission; X-ray satellites; Electron excitation; Neon K emission spectrum; *12286*. SP305-3.
- X-ray emission; X-ray spectrometers; Electron probe microanalyzer; Wavelengths; *TN406*. SP305.
- X-ray emission and absorption; Density of states; Interacting electrons; One-particle Green function; Oscillator strengths; Quasi particle density of states; *J.74A No. 3*, 417-431 (1970). SP305-2.
- X-ray emission and absorption; Density of states; Interacting electrons; One-particle Green function; Oscillator strengths; Quasi particle density of states; *SP323*, pp. 233-247. SP305-4.
- X-ray emission of sulphur  $K\alpha$ ,  $K\beta$ , L and fluorine  $K\alpha$ ; Molecular orbital model; Photon and electron excited emission spectra; Resonance radiation; Semi-Auger process;  $SF_6$ ; *1310*. SP305-5.
- X-ray equipment; Gamma-ray equipment; Radiation installations; Radiation safety; *H114*. SP305-7.
- X-ray equipment; Performance standard, EOD; Bomb disarmament; Explosive; *16346*. SP305-8.
- X-ray equipment; Radiation safety; *H111*. SP305-4.
- X-ray excitation; Cathode-ray excitation; Luminescence; Luminescence standards; Phosphors; Quantum efficiency; Radiant efficiencies; UV excitation; *J. Res. 80A No. 3*, 401-407 (1976). SP305-8.
- X-ray fluorescence; Accuracy; Activation analysis; Airborne particulates; Air filter analysis; Atomic absorption; Emission spectroscopy; Environmental pollutants; Intercomparison; Multi-element analysis; Trace element analysis; *SP422*, pp. 173-188 (Aug. 1976). SP305-8.
- X-ray fluorescence; Accuracy; Anodic stripping voltammetry; Arc emission spectroscopy; Atomic absorption; Environmental analyses; Interlaboratory tests; Neutron activation analysis; Plasma emission; Round robin; *SP422*, pp. 199-210 (Aug. 1976). SP305-8.
- X-ray fluorescence; Accuracy; Atomic absorption; Environment; neutron activation analysis; Precision; *SP422*, pp. 239-245 (Aug. 1976). SP305-8.
- X-ray fluorescence; Activation analysis; Characterization; Chemical composition; Chromatographic analysis; Coulometry; Electron probe microanalysis; Ion-selective electrodes; Mass spectrometry; Polarography; Spectrochemical analysis; Thermal analysis; Wet chemistry; *15165*. SP305-7.
- X-ray fluorescence; Air pollution; Atomic absorption; Electron microprobe; Emission spectroscopy; Environmental analysis; Industrial effluents; Ion-selective electrodes; Nuclear activation analysis; Particulate analysis; Polarography; *13783*. SP305-5.
- X-ray fluorescence; Analysis; Line interference correction; Silver dental alloys; Specimen preparation; Spectrometry; *10419*. SP305-1.
- X-ray fluorescence; Applied x-ray analysis; Conference report; Material analysis; X-ray diffraction; *12472*. SP305-4.
- X-ray fluorescence; Atmospheric particulates; Direct analysis techniques; Emission spectroscopy; Particulate analysis; Particulate characterization; Sampling methods; *SP422*, pp. 791-803 (Aug. 1976). SP305-8.
- X-ray fluorescence; Automation; Defraction; Detectors; Spectrometry; X-ray analysis; *14384*. SP305-6.
- X-ray fluorescence; Corrections; Matrix effects; Standard reference materials; *15983*. SP305-8.
- X-ray fluorescence; Electron probe microanalysis; Error analysis; Fluorescence corrections; Quantitative analysis; *10980*. SP305-2.
- X-ray fluorescence; Gamma-excitation; Medium-weight elements; Molybdenum; Quantitative analysis; Tin; *10365*. SP305-1.
- X-ray fluorescence; Ion exchange; Sampling; *SP422*, pp. 649-658 (Aug. 1976). SP305-8.
- X-ray fluorescence; Lead paint; Lead paint detection; Lead paint programs; Lead poisoning; Portable x-ray fluorescence; Random sampling; *TN921*. SP305-8.
- X-ray fluorescence; Mineral analysis; Trace analysis; *SP422*, pp. 1109-1118 (Aug. 1976). SP305-8.
- X-ray fluorescence; X-ray microanalysis; Distribution functions; Electron probe microanalysis; Semiconductor materials; Thin films; *15967*. SP305-8.
- X-ray fluorescence; X-ray spectrochemical analysis; Calibration; Empirical calibration; Iron-nickel-chromium alloys; *13911*. SP305-6.
- X-ray fluorescence; X-ray spectrochemical analysis; Calibration; Empirical calibration; High-temperature superalloys; *14218*. SP305-6.

- X-ray fluorescence; X-ray spectroscopy; Background; Mercury in coal; Trace analysis; *NBSIR 75-675. SP305-7.*
- X-ray fluorescence analysis; Analysis; Computer program; Electron probe; Microanalysis; Optical spectrometry; Pre-concentration techniques; Spectrochemical analysis; Standard reference materials; *TN542. SP305-2.*
- X-ray fluorescence analysis; Analysis; Computer program; Electron probe; Microanalysis; Optical spectrometry; Pre-concentration techniques; Spectrochemical analysis; Standard reference materials; *TN582. SP305-4.*
- X-ray fluorescence analysis; Austenite in ferrite; Electron microprobe; Powder metallurgy; Quantitative microscopy; SRM; *SP260-25. SP305-3.*
- X-ray fluorescence analysis; Vacuum spectrometer; Computing; Digital readout; Electron probe; Gold analysis; Isotope dilution method; Laser probe; Liquid Q-switch; Mass attenuation coefficients; Microphotometer; Optical spectrometry; Plasma torch; *TN422. SP305-1.*
- X-ray fluorescence analysis; X-ray mass attenuation coefficients; Zinc analysis; Computing; Digital readout; Electron probe; Emulsion calibration; Emulsion sensitivity; Gold analysis; Isotope dilution method; Microprobe grid scanner; Optical spectrometry; *TN452. SP305-1.*
- X-ray fluorescence analysis; X-ray scans; Analytical curve functions; Color composite; Computer programs; Electron probe; Gold analysis; Isotope dilution method; Laser probe; Metal foil analysis; Microanalysis; Non-diffractive x-ray spectra; *TN502. SP305-2.*
- X-ray fluorescence spectrometry; Standard Reference Material; Analytical standard; Atomic absorption spectrometry; Differential cathode ray polarography; Electrodeposition; Lead-based paint; Neutron activation analysis; *SP260-45. SP305-5.*
- X-ray fluorescence spectroscopy; Atomic absorption spectrophotometry; Emission spectroscopy; Nickel; Nickel-base alloys; Polarography; Spectrophotometry; *SP422, pp. 1005-1016 (Aug. 1976). SP305-8.*
- X-ray generation; Electron microscopy; Electron probe microanalysis; Electron-specimen interactions; Monte Carlo electron trajectory simulation; Scanning electron microscopy; *SP460, pp. 45-60 (Dec. 1976). SP305-8.*
- X-ray generators; X rays; Calibration; Electrical measurements; Electro-optics; Frequency response; High voltage; Kerr effect; Operational amplifier; Pulses; Radiation; Safety; *NBSIR 75-775. SP305-8.*
- X-ray image signals; X-ray scatter; Image contrast; Monoenergetic x-ray beams; Optimum radiographic systems; Transmission radiography; *15276. SP305-7.*
- X-ray inelastic scattering; Collective excitations; Energy transfer; Lithium; Momentum transfer; *12575. SP305-4.*
- X-ray inelastic scattering; Compton scattering; Plasmon scattering; Raman scattering; Relation between spectra; X-ray absorption; *12409. SP305-4.*
- X-ray inelastic scattering; Differential cross section; Real metals; Theory; *J.79A No. 2, 415-417 (1975). SP305-7.*
- X-ray inelastic scattering; Energy transfer; Lithium; Momentum transfer; X-ray absorption; *13983. SP305-6.*
- X-ray inelastic scattering; X-ray Raman scattering; Compton scattering; Lithium; Optical transitions; *14518. SP305-6.*
- X-ray instrument; Crystal x-ray instrument; Single axis; Two-crystal x-ray instrument; *9666. SP305-1.*
- X-ray instrumentation; Divergent x-ray beam; Instrument design; Kossel camera; Kossel method; *J.71C4-262, 313-318 (1967). SP305.*
- X-ray interferometry; Crystal diffraction; Gamma-ray wavelength; Gold 198; Goniometer; *16227. SP305-8.*
- X-ray interferometry; Wave optics; Diffraction theory; Lattice constants; Measurements; *12285. SP305-3.*
- X-ray investigations; Binary system; Boron; Carbon; Chemical analysis; Melting-point determination; Metallography; Phase field division; Silicon; Solubilities; Ternary system; *SP364, pp. 505-513. SP305-4.*
- X-ray leakage; Electron microscopes; Health hazards; High voltage electron microscopes; *SP456, pp. 223-224 (Nov. 1976). SP305-8.*
- X-ray line shapes; X-ray spectra; X-ray wavelength criteria; Lattice constants; Peak intensity; Physical constants; Spectral line profiles; Statistical error analysis; *J.72A No. 2, 187-205 (1968). SP305-1.*
- X-ray  $L_{\alpha 3}$  emission; Argon; Configuration interaction; KCl; Radiative process; Two electron processes; *12692. SP305-4.*
- X-ray mass absorption coefficients;  $\gamma$ - $Al_2O_3$ ; Aluminum; Amorphous  $Al_2O_3$ ; Cross sections; Electron energy loss spectra; L-shell electrons; Oscillator strengths; *10609. SP305-1.*
- X-ray mass attenuation coefficients; Zinc analysis; Computing; Digital readout; Electron probe; Emulsion probe; Emulsion calibration; Emulsion sensitivity; Gold analysis; Isotope dilution method; Microprobe grid scanner; Optical spectrometry; Plasma torch; *TN452. SP305-1.*
- X-ray measurement; Data reduction; Electron probe; Errors; Microanalysis; *13560. SP305-5.*
- X-ray measurements; Standard reference materials; X-ray calibration; *14512. SP305-6.*
- X-ray microanalysis; Deposited thin film; Electron beam metal deposition; Scanning electron microscopy; *13775. SP305-5.*
- X-ray microanalysis; Distribution functions; Electron probe microanalysis; Semiconductor materials; Thin films; X-ray fluorescence; *15967. SP305-8.*
- X-ray microanalysis; Electron energy loss; Landau electron deceleration theory; Microanalysis; Monte Carlo electron trajectory calculations; Scanning electron microscopy; *SP460, pp. 61-96 (Dec. 1976). SP305-8.*
- X-ray microanalysis; Electron probe microanalysis; Electron scattering; Electron-specimen interactions; Monte Carlo electron trajectory calculations; Scanning electron microscopy; *SP460, pp. 5-14 (Dec. 1976). SP305-8.*
- X-ray microanalysis; Electron probe x-ray microanalysis; Spectrometers; *10652. SP305-1.*
- X-ray microanalysis; X-ray source size; Backscattered electrons; Electron specimen interaction; Monte Carlo simulation; Particulate analysis; Scanning electron microanalysis; *15038. SP305-7.*
- X-ray microdiffraction; Instrument design; Kossel x-ray method; Metallography; Strain measurement; Tensile testing; *11175. SP305-2.*
- X-ray microdiffraction; Kossel method; *11527. SP305-2.*
- X-ray microscopy; Color photography; Metallography; Petrography; Photomicrography; Scanning electron microprobe; *J.73A No. 2, 113-123 (1969). SP305-1.*
- X-ray opacity; Barium glass; Dental composites; Dental reinforcements; Physical properties; Resins; Silica; *13674. SP305-5.*
- X-ray opaque; Barium fluoride; Composite materials; Dental restorations; Refractive index; Reinforcing fillers; *10847. SP305-1.*
- X-ray opaque; Clinical research (dental); Composite restorations; Diagnosis; Physical properties of fillings; *11944. SP305-3.*
- X-ray photoelectron; Chemical shifts; Chemisorption; ESCA; Nitric oxide; Nitrogen; Spectroscopy; *14271. SP305-6.*
- X-ray photoelectron; Electronic structure; ESCA; Hard magnets; Magnetic materials; Photoelectron spectroscopy; Rare-earth magnets; *14231. SP305-6.*
- X-ray photoelectron spectra; Argon, KCl,  $CH_2Cl$ ,  $SF_6$ ; L and K x-ray spectra; Semi-Auger effect; *14400. SP305-6.*
- X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Boron redistribution; Darlington pairs; Dopant profiles; Electrical properties; Electronics; Epitaxial layer thickness; Flying-spot scanner; Gold-doped silicon; Hermeticity; Incremental sheet resistance; *SP400-12. SP305-7.*

- X-ray photoelectron spectroscopy; Acoustic emission; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; Charge-coupled device structures; Darlington pairs; Deep depletion; Dopant profiles; Electrical properties; *SP400-19. SP305-8.*
- X-ray photoelectron spectroscopy; Acoustic emission; Auger electron spectroscopy; Beam-lead bonds; Bias-temperature stress test; Boron redistribution; Capacitance-voltage methods; Dopant profiles; Electrical properties; Electronics; Four-probe method; Hermeticity; *SP400-25. SP305-8.*
- X-ray photoelectron spectroscopy; Adsorbate; Chemisorption; Ruthenium; Ultraviolet photoelectron spectroscopy; *15814. SP305-8.*
- X-ray photoelectron spectroscopy; Attenuation lengths; Auger-electron spectroscopy; Inelastic cross sections; Inelastic electron scattering at low energies; Solids; *14453. SP305-6.*
- X-ray photoelectron spectroscopy; Auger electron spectroscopy; Depth impurity profiling; Ion implantation; Ion sputtering; Microelectronic materials; Rutherford backscattering; Secondary ion mass spectroscopy; Silicon; Silicon dioxide; Surface analysis; *15739. SP305-8.*
- X-ray photoelectron spectroscopy; Auger spectroscopy; Depth profiles; Electron beam induced imaging; ESCA; Insulator films; Interface characteristics; Internal photoemission; Ion scattering spectroscopy; Nuclear resonance profiling; Photodepopulation; *SP400-23. SP305-8.*
- X-ray photoelectron spectroscopy; Boron redistribution; Collector resistor; Doping profiles; Effective masses; Electrical properties; Electron beam induced current mode electronics; Epitaxial layer thickness; Flying spot scanner; Gold-doped silicon; Hermeticity; *SP400-4. SP305-6.*
- X-ray photoelectron spectroscopy; Boron nitride; Boron redistribution; Capacitance-voltage methods; Darlington pairs; Deep depletion; Dopant profiles; Electrical properties; Electron beam evaporator; Electron beam induced damage; Electronics; Epitaxial layer thickness; *SP400-17. SP305-7.*
- X-ray photoelectron spectroscopy; Carbon dioxide; Carbon monoxide; Chemisorption; Formaldehyde; Oxygen; Physisorption; Surface chemistry; Tungsten; *16085. SP305-8.*
- X-ray photoelectron spectroscopy; Chemisorption; CO; ESCA; Ruthenium; *15042. SP305-7.*
- X-ray photoelectron spectroscopy; Electronic density of states; Gold aluminum two ( $\text{AuAl}_2$ ); Gold gallium two ( $\text{AuGa}_2$ ); *SP323, pp. 791-793. SP305-4.*
- X-ray photoelectron spectroscopy; Oxygen; Ruthenium; Satellite; Shake-up; Structure; *15147. SP305-7.*
- X-ray photoelectron spectroscopy (ESCA); Adhesion failure; Cohesive failure; Polymeric bond failure; Scanning electron microscopy (SEM); *15283. SP305-7.*
- X-ray photoemission; Alloys; Copper; Electronic density of states; Lanthanum; Nickel; Nuclear magnetic resonance; Platinum; *15768. SP305-8.*
- X-ray photoemission; Aluminum; Auger peak; Secondary-electron energy distribution; *14547. SP305-6.*
- X-ray photoemission; Aluminum; Auger peak; Secondary-electron energy distribution; *12720. SP305-4.*
- X-ray photoemission; Aluminum; Auger transitions; Copper; Electronic density of states; Nickel; Secondary-electron energy distribution; *13058. SP305-5.*
- X-ray photoemission; Aluminum; Auger transitions; Copper; Electronic density of states; Nickel; Secondary-electron energy distribution; *13145. SP305-5.*
- X-ray photoemission; Aluminum; Auger-transitions; Copper; Electronic density of states; Nickel; Photoelectron energy distribution; Secondary-electron energy distribution; *13483. SP305-5.*
- X-ray photoemission; Aluminum; Density of states; Photoelectron energy distribution; *14541. SP305-6.*
- X-ray photoemission; Aluminum; Electronic density of states; Photoelectron energy distribution; *12964. SP305-4.*
- X-ray photoemission; Barium (Ba);  $\beta$ -tungsten compounds; Effects of oxidation; Electronic density of states; Europium (Eu); Lanthanides; Matrix elements; Photoemission; Rare earth metals; UV and x-ray photoemission; *SP323, pp. 217-220. SP305-4.*
- X-ray photoemission; Catalysis; Electronic structure; Platinum; Soft x-ray appearance potential; Tungsten; Tungsten carbide *15011. SP305-7.*
- X-ray photoemission; Chemisorption; ESCA; Field emission Photoemission; Surfaces; *16454. SP305-8.*
- X-ray photoemission; Electronic density of states; Pt; Surface cleanliness; Valence-band; *14136. SP305-6.*
- X-ray photoemission; ZnS;  $\text{CdCl}_2$ ; Density of states; HgO Noble metals; Rigid band model; Transition metals; *J74 No. 4, 543-558 (1970). SP305-2.*
- X-ray photoemission; ZnS;  $\text{CdCl}_2$ ; Density of states; HgO Noble metals; Rigid band model; Transition metals; *SP323 pp. 163-178. SP305-4.*
- X-ray photoemission spectroscopy; Alloys; Aluminum; Gallium; Gold; Indium; Intermetallic compound; Knight shift; Relaxation time; Soft x-ray spectroscopy; *12721. SP305-4.*
- X-ray powder analysis; Ca, Mg phosphate; Hydrothermal synthesis; Inorganic synthesis; Mineral chemistry; Rare-earth silicate; *J72A No. 4, 355-358 (1968). SP305-1.*
- X-ray powder analysis; Crystal chemistry; Hydrothermal synthesis; Rare-earth garnet; *10370. SP305-1.*
- X-ray powder analysis; Crystal chemistry; Gel-preparation; Inorganic synthesis; Mineral identification; Polymorphism; Rare-earth silicate; Solid solubility; *10998. SP305-2.*
- X-ray powder analysis; Crystal chemistry; Flux growth; Garnet; Hydrogarnet; Indium silicates; Inorganic synthesis; Solid solubility silicates; *15235. SP305-7.*
- X-ray powder analysis; Garnet; Hydrogarnet; Inorganic synthesis; Rare earths; Germanate; *10659. SP305-1.*
- X-ray powder data; Akermanite; Crystal chemistry; Crystal growth; Cupric silicate; Flux growth; Ion polyhedron distortion; Melilitite; Mössbauer spectroscopy; Silicate gels; Silicate synthesis; *J73A No. 1, 69-74 (1969). SP305-1.*
- X-ray quality control; Diagnostic radiology; Pass-fail tests; Quality assurance measurements; *SP456, pp. 119-130 (Nov. 1976). SP305-8.*
- X-ray Raman effect; Absorption; Charge correlation; Compton effect; Core electrons; Current correlation; Inelastic scattering; Solid; Theory; Valence electrons; *12542. SP305-4.*
- X-ray Raman scattering; Compton scattering; Lithium; Optical transitions; X-ray inelastic scattering; *14518. SP305-6.*
- X-ray resonators; Monochromators; Single crystals; *10478. SP305-1.*
- X rays; Absorption; Ce; La; *14157. SP305-6.*
- X-rays; Absorption; Films; Spectra; Tin; Transmittance; Ultraviolet; *9639. SP305-1.*
- X-rays; Absorption; Radiation; Spectroscopy; Ultraviolet; *9311. SP305.*
- X rays; Absorption corrections; Attenuation coefficient; Conference; Crystallography; Electron microprobe; Fluorescence analysis; Gamma rays; Photons; Röntgen; *11814. SP305-3.*
- X-rays; Accelerator; Blood irradiators; Dosimetry; Electron beams; Gamma rays; Radiochromic dyes; *13630. SP305-5.*
- X rays; Air pollution; Camera guidelines; Computerized elections; Dental fillings; Metre; Ozone problem; Police communications; Water pollution; *DIM/NBS 59, No. 5, 97-120 (1975). SP305-7.*
- X rays; Analysis; Electron probe; Microanalysis; Spectrometry; *10979. SP305-2.*
- X rays; Applications; Electron probe; Microanalysis; Metallurgy; Spectrometry; *11586. SP305-2.*
- X-rays; Attention coefficient; Compilations; Compton scattering; Photoelectric effect; Photons; *12648. SP305-4.*
- X-rays; Attenuation coefficient; Bibliography; Cross section; Data index; Gamma rays; Photons; *12800. SP305-4.*



- X-rays; Attenuation coefficient; Coherent scattering; Compilation; Cross section; Incoherent scattering; Photoelectric absorption; Photons; 12868. SP305-4.
- X-rays; Attenuation coefficient; Compilation; Compton scattering; Cross section; Crystallography; Photoelectric absorption; Photons; Rayleigh scattering; 14847. SP305-7.
- X-rays; Attenuation coefficient; Compton scattering; Cross section; Energy absorption coefficient; Gamma rays; Pair production; Photoelectric absorption; Photons; 10989. SP305-2.
- X-rays; Attenuation coefficient; Compton scattering; Cross section; Energy absorption coefficient; Gamma rays; Pair production; Photoelectric absorption; Photons; NSRDS-NBS29. SP305-1.
- X-rays; Attenuation coefficients; Cross sections; Gamma rays; Photoelectric effect; Photons; TN901. SP305-8.
- X-rays; Backscattered electrons; Electron probe microanalysis; Monte Carlo electron trajectory simulation; Scanning electron microscopy; Secondary electrons; SP460, pp. 15-44 (Dec. 1976). SP305-8.
- X-rays; Betas; Calibrations; Dosimetry; Gamma rays; Neutrons; Plutonium; SP456, pp. 267-276 (Nov. 1976). SP305-8.
- X-rays; Calibration; Data processing; Evaluation; Gamma rays; Intercomparison; Performance; Personnel dosimetry; Phosphate glass; Photographic film; Radioactive sources; Thermal neutrons; 10920. SP305-2.
- X-rays; Calibration; Electrical measurements; Electro-optics; Frequency response; High voltage; Kerr effect; Operational amplifier; Pulses; Radiation; Safety; X-ray generators; NBSIR 75-775. SP305-8.
- X-rays; Chromium doping; Metal-insulator transitions; Twinning; Vanadium oxide; 14415. SP305-6.
- X-rays; Compaction density; Eddy current measurements; Fuel rods; Impregnation density; Monitor tests; Neutron radiography; Ultrasonics; SP336, p. 405. SP305-3.
- X-rays; Conference review; Electron probe; Microanalysis; Microscopy; Spectroscopy; 14354. SP305-6.
- X-rays; Continuum source; Secondary excitation; 9668. SP305-1.
- X-rays; Crystal structure explosives; Least-squares refinement; Molecular packing; Tetraazacyclooctane derivatives; 15574. SP305-7.
- X-rays; Depth-dose dyes; Dose distribution; Dosimetry; Electrons; Films; Gamma rays; Gels; Radiation beams; 12455. SP305-4.
- X-rays; Diffraction; Fluorescence analysis; Radiation safety; 12484. SP305-4.
- X-rays; Dosimetry; Electrons; Gamma rays; Ionizing radiation; Microdosimetry; Radiation physics; Radiation sterilization; Radiobiology; 14118. SP305-6.
- X-rays; Dosimetry; Exposure rate measurements; Gamma rays; Radiation detection devices; Radiation detectors; Radiation monitoring; Semiconducting devices; Silicon; 10052. SP305-1.
- X-rays; Dosimetry; Gamma rays; Photodiodes; Photovoltaic effects; Radiation detection; Radiation detectors; Semiconducting devices; Silicon; 11114. SP305-2.
- X-rays; Electron microprobe; Ion microprobe; Mass spectrometry; Microanalysis; Scanning electron microscopy; 11631. SP305-2.
- X-rays; Electron probe microanalysis; Monte Carlo calculations; Particulates; Quantitative analysis; Thin films; 16410. SP305-8.
- X-rays; Electron probe microanalyzer; Microanalysis; Qualitative analysis; Quantitative analysis; Specimen preparation; 14897. SP305-7.
- X-rays; Electrons; Nuclear physics; Particle accelerators; Radiation measurement standards; Radiation power; Radiation processing; 9852. SP305-1.
- X-rays; Fiber optics; 9363. SP305.
- X-rays; Fibers; Microfocus tubes; Microradiography; Nylon; Polyacrylonitrile; Polyamides; Reflection of x-rays; Soft x-rays; 9488. SP305.
- X-rays; Gamma rays; Photocurrents; Radiation; Radiation detector; Radiation dosimetry; Silicon radiation detector; Temperature dependence; J.75A No. 6, 579-589 (1971). SP305-3.
- X-rays; Photoelectron spectra; Potassium; Rubidium; Sodium; 13357. SP305-5.
- X-rays; Radiation safety; Radiography; Voluntary standards; 13482. SP305-5.
- X-rays; 10105 steel; Chemical shift; Hyperfine peaks; Mössbauer spectra; Retained austenite; Singlet center peak; 10873. SP305-2.
- X-ray satellite lines; Auger transition; Coster-Kronig theory; Non-diagram lines; Wenzel theory; 12582. SP305-4.
- X-ray satellites; Electron excitation; Neon K emission spectrum; X-ray emission; 12286. SP305-3.
- X-ray scans; Analytical curve functions; Color composite; Computer programs; Electron probe; Gold analysis; Isotope dilution method; Laser probe; Metal foil analysis; Microanalysis; Non-diffractive x-ray spectra; Optical spectrometry; Platinum analysis; TN502. SP305-2.
- X-ray scatter; Image contrast; Monoenergetic x-ray beams; Optimum radiographic systems; Transmission radiography; X-ray image signals; 15276. SP305-7.
- X-ray scattering; Critical region; Dielectric constant; Equation of state; Homogeneity; Light scattering; Power laws; Refractive index; Scaling; Schlieren method; Specific heat; Speed of sound; 14932. SP305-7.
- X-ray scattering; Dielectric loss; *n*-paraffins; Phase transitions; J.78A No. 2, 131-141 (1974). SP305-6.
- X-ray source size; Backscattered electrons; Electron specimen interaction; Monte Carlo simulation; Particulate analysis; Scanning electron microanalysis; X-ray microanalysis; 15038. SP305-7.
- X-ray spectra; Argon; Energy relation; 11498. SP305-2.
- X-ray spectra; Bone; Dosimetry; Dyes; Electron dosimetry; Energy dependence; Gamma rays; Muscle; Radiochromic dosimeters; 15429. SP305-7.
- X-ray spectra;  $H_2S$ ; Sulfur K $\beta$  emission and K-absorption spectra; Sulfur K shell binding energy; 14993. SP305-7.
- X-ray spectra; Molecular energy levels; Molecules; 9443. SP305.
- X-ray spectra; X-ray spectrometers; Electron diffraction; Electron probes; Evaluation; Gas flow; Lithium; Microanalysis; Multichannel analyzer; Proportional counters; Quantitative analysis; Solid state counters; Tests; 12251. SP305-3.
- X-ray spectra; X-ray wavelength criteria; Lattice constants; Peak intensity; Physical constants; Spectral line profiles; Statistical error analysis; X-ray line shapes; J.72A No. 2, 187-205 (1968). SP305-1.
- X-ray spectrochemical analysis; Calibration; Empirical calibration; Iron-nickel-chromium alloys; X-ray fluorescence; 13911. SP305-6.
- X-ray spectrochemical analysis; Calibration; Empirical calibration; High-temperature superalloys; X-ray fluorescence; 14218. SP305-6.
- X-ray spectrochemical analysis; Microanalytical techniques; Solids mass spectrometer; Electron probe microanalyzer; NBS white cast iron sample (SRM 1175); Stainless steel powder metallurgy compact; Optical metallography; Macroanalytical techniques; M260-12. SP305.
- X-ray spectrochemical analysis; Powders, compacted or pressed; Spectrochemical analysis; 10151. SP305-1.
- X-ray spectroscopy; Background; Mercury in coal; Trace analysis; X-ray fluorescence; NBSIR 75-675. SP305-7.
- X-ray spectrometer; Double crystal instrument; Vacuum instrument; 9665. SP305-1.

- X-ray spectrometers; Electron diffraction; Electron probes; Evaluation; Gas flow; Lithium; Microanalysis; Multichannel analyzer; Proportional counters; Quantitative analysis; Solid state counters; Tests; X-ray spectra; *12251. SP305-3.*
- X-ray spectrometers; Electron probe microanalyzer; Wavelengths; X-ray emission; *TN406. SP305.*
- X-ray spectrometer shield; Increased sensitivity of touch alarm; Scanning electron microscope; *12060. SP305-3.*
- X-ray spectrometry; Cathodoluminescence; Electron backscatter; Electron probe; Microanalysis; Scanning electron microscopy; *10651. SP305-1.*
- X-ray spectrometry; Coating thickness; Electroplating; Fluorescent x-rays; Thickness; *13203. SP305-5.*
- X-ray spectrometry; Electron microprobe; Emission spectrometry; Laser; Mass spectrometry; Microanalysis; Spark; *10397. SP305-1.*
- X-ray spectrometry; Scanning electron microscopy; Electron backscatter; Cathodoluminescence; Electron probe; Microanalysis; *TN278. SP305.*
- X-ray spectroscopy; Analysis; Arc temperature; Atomic absorption spectrometry; Analog computer; Bibliography; Computer; Electrodeposition; Electron back scatter; Electron probe microanalyzer; Emission spectroscopy; Laser probe; Mass spectroscopy; *TN401. SP305.*
- X-ray spectroscopy; Analytical chemistry; Calculations; Computers; Emission spectroscopy; Programming; Spectrochemical analysis; Time-sharing computer; *TN407. SP305-1.*
- X-ray spectroscopy; Corrections; Electron probe microanalysis; Quantitative analysis; *14328. SP305-6.*
- X-ray spectroscopy; Corrections; Electron probe microanalysis; Quantitative analysis; *TN521. SP305-2.*
- X-ray spectroscopy; Electrochemical methods; Electron and optical microscopy; Nuclear methods; Optical spectroscopy; Symposium on trace characterization; Trace characterization; *Mono. 100. SP305.*
- X-ray spectroscopy; Zinc (Zn); Cobalt; Copper; Electronic density of states; Iron; Nickel; Satellite emissions; Self absorption; Soft x-ray emission; *SP323, pp. 319-326. SP305-4.*
- X-ray structure analysis; Bis- $[\mu-(\text{tri-1,2,4-triazolo-}N^1,N^2\text{-triquonickel})\text{nickel hexanitrate dihydrate; Trinuclear nickel(n) complex; } 12291. SP305-3.$
- X-ray structure determination; Alkali metal; Bronze; Hexagonal holes; Hexagonal tungsten bronze; Lattice image; Molybdate; Molybdenum; Niobate; Niobium; Oxide; Single crystal; Tetramolybdate; *SP364, pp. 15-27. SP305-4.*
- X-ray structure determination; Bimidazole and water ligands; Hydrogen bonding; Transition metal coordination complex; *11227. SP305-2.*
- X-ray structure determination; Coordination complex; Inorganic polymer; Pyrazine ligand; *12054. SP305-3.*
- X-ray structure determination; Imidazole; Ligand; Octahedral coordination complex; Trigonal symmetry; *11107. SP305-2.*
- X-ray structure determination; Inorganic coordination complex; Octahedral coordination; Pyrazole; Trigonal symmetry; *11826. SP305-3.*
- X-ray studies; Alloys; Plastics; Silver alloys; *11413. SP305-2.*
- X-ray topography; Anomalous transmission; As-grown copper crystal; Crystal perfection; Czochralski growth; Lomer-Cottrell locks; Sessile dislocations; *14779. SP305-7.*
- X-ray topography; Contrast conditions; Dynamical images; Immobile dislocations; Lomer locks; Sessile dislocations; X-ray dynamical diffraction; *16373. SP305-8.*
- X-ray topography; Copper single crystals; Crystal perfection; Dislocations; Fluid flow; Thermal convection; *13944. SP305-6.*
- X-ray topography; Microstructure; Paraffin crystals; Plastic deformation; Polymer crystals; Radiation damage; *15433. SP305-7.*
- X-ray trends; Diagnostic; Nationwide evaluation; Physicist; Technologist; X-ray departments; *SP456, pp. 147-152 (Nov. 1976). SP305-8.*
- X-ray tube; Controlled; Current; Emission; Impedance; Regulator; Stabilizer; *10807. SP305-1.*
- X-ray tube; Controlled impedance; Current; Emission; Regulator; Stabilizer; *10140. SP305-1.*
- X-ray tube potential; Attenuation; Exposure; Phantom Phototiming; Radiographic examination; *SP456, pp. 381-38 (Nov. 1976). SP305-8.*
- X-ray units; Computer power; Computer standard; Corrosion Environment; Health care; Housing production; I-R 10 awards; NIKE missile; Papers available; Stereology; To safety; *DIM/NBS 60, No. 11, 1-24 (1976). SP305-8.*
- X-ray, vacuum ultraviolet; Radiation; Source and electron Synchrotron; *14636. SP305-6.*
- X-ray wavelength; Absorption; Atomic; Data compilation Emission; Energy levels; *NSRDS-NBS14. SP305.*
- X-ray wavelength criteria; Lattice constants; Peak intensity Physical constants; Spectral line profiles; Statistical error analysis; X-ray line shapes; X-ray spectra; *J.72A No. 2, 187-205 (1968). SP305-1.*
- X-ray wavelengths; Avogadro's number; Compton wavelength Gamma-ray wavelength; Lattice parameters; X-ray conversion factor; *14267. SP305-6.*
- X-ray, zwitterion; Hydrogen bonding; Single crystal; Structure determination; S-carboxymethyl-L-cysteine sulfone; *16565 SP305-8.*
- X-transitions; Critical phenomena; Critical point; Second order phase transition; Singularities; Padé approximate fluctuations Opalescence; *M273. SP305.*
- XUV grating monochromators; Calibrated XUV detectors; Irradiance; Radiometry; Second order diffracted radiation Synchrotron radiation; *15107. SP305-7.*
- XUV photodiode; Radiometry; Rise time; Temporal response; Transfer standard detector; *15226. SP305-7.*
- xylo-trihydroxycyclohexenediolic acid preparation of bis-phenylhydrazon of: xylo-4,5,6-trihydroxy-2-oxo-1,3-bis(phenylhydrazono)cyclohexane; 4-oxo-1-phenyl-5-phenylazo-3-pyridazine-carboxaldehyde derivatives; Absorption spectra of pyridazine derivatives; *9803. SP305-1.*
- xylo-4,5,6-trihydroxy-2-oxo-1,3-bis(phenylhydrazono)cyclohexane; 4-oxo-1-phenyl-5-phenylazo-3-pyridazine-carboxaldehyde derivatives; Absorption spectra of pyridazine derivatives; Cyclic polyhydroxy ketones; Inositol, triketo; *9803. SP305-1.*
- X<sup>2</sup>Fl, A<sup>2</sup>E; Electronic transition probabilities; Hartree-Fock LiO; Vibrational transition probabilities; *J.76A No. 6, 665-668 (1972). SP305-4.*

- (AG; Birefringence; Fused silica; Optical spectrum analyzer; Photoelastic effect; Sapphire; Scanning Fabry-Perot interferometer; *SP387*, pp. 254-258. **SP305-5.**
- (ag; Antenna; Director; Driven element; Gain; Radiation pattern; Reflector; *TN688*. **SP305-8.**
- (b<sub>2</sub>O<sub>3</sub>; Gd<sub>2</sub>O<sub>3</sub>; Fluorescence spectra; *M<sub>4,5</sub>* emission spectra; Resonance radiation; *14239*. **SP305-6.**
- Yeast; Amino acids; Food additives; Food problem; Production of synthetic food; Synthetic food materials; Urea; *11136*. **SP305-2.**
- Yellowing; Atmospheric pollutants; Color—difference and representation; Impact resistance; Plastics; Rigid polyvinyl chloride (PVC); Test methods; Ultraviolet (UV) radiation; Water vapor; Weathering—artificial and natural; *SP361*, Vol. 1, pp. 751-760. **SP305-4.**
- factor; Amplifier noise; Noise; Noise factor; Noise temperature; *12191*. **SP305-3.**
- factor; Analysis; Automation; Noise figure; *13199*. **SP305-5.**
- factor; Analysis; Automation; Noise figure; *14524*. **SP305-6.**
- factor measurements; Effective input noise temperature; Measurement errors; Noise factor; Noise measurements; Noise performance factors; Noise temperature; *Monogr. 142*. **SP305-6.**
- Yield; Actinide burnup; Cross section sets; Neutron spectrum; Transplutonium; Waste management; *SP425*, pp. 214-217. **SP305-7.**
- Yielding; Anisotropy; Continuum mechanics; Entaxy; Entropy; Irreversibility; Non-equilibrium state; Nonlinear theory; Plasticity; Thermodynamics; Viscoelasticity; *12948*. **SP305-4.**
- Yielding; Continuum mechanics; Non-Riemannian theories; Plasticity; *SP317*, pp. 761-784. **SP305-3.**
- Yield point; Biaxial; Fatigue; Fracture; Laboratory automation; Mechanical testing; Plasticity; Polyvinyl chloride; Servo-hydraulic system; Viscoelasticity; *16626*. **SP305-8.**
- Yields; Aluminum; Beryllium; Carbon; Copper; Electron excitation; Gold; K x-ray beams; Purities; Silver; Titanium; *14261*. **SP305-6.**
- Yields; Detector; Efficiency; Four-pi; Halpern; Neutron; Photoneutron; Response; *TN416*. **SP305.**
- Yields; <sup>235</sup>U; <sup>239</sup>Pu; Decay heat; E<sub>g</sub>; E<sub>y</sub>; ENDF/B-IV; Fission products; Half lives; *SP425*, pp. 21-28. **SP305-7.**
- Yield strength; AISI 5140 steel; Hardness; Heat treatment; Reduction of area; Slack-quenched structures; Tempering temperature; Tensile strength; *10984*. **SP305-2.**
- Yield stress; Annealing; Impurities; Iron; Radiation hardening; Strain aging; *11449*. **SP305-2.**
- Yield stress; Cross-slip; Ductility; Interstitial impurity; Iron; Nitrogen; *11573*. **SP305-2.**
- Yield stress; Elastic stress; Heat transfer; Plane strain; Thermal stress; *J7084-188*, 265-272 (1966). **SP305.**
- Yield stress; Hydrogen-purified iron; Luder's strain; Polycrystalline iron; Tensile properties; Ultimate tensile stress; *10328*. **SP305-1.**
- Yields vs. energy; <sup>235</sup>U, <sup>238</sup>U, <sup>239</sup>Pu; Burnup monitors; Capture-to-fission; Dilution mass spectrometry; Fast fission yields; *SP425*, pp. 378-384. **SP305-7.**
- YIG; External tensor permeability; Ferrimagnetic resonance; Ferrites; Garnet; Low magnetic field effects; Permeability; Spin waves; Tensor permeability; *9395*. **SP305.**
- YIG; Ferrites; Hyperfine fields; Mössbauer; Sb; *14459*. **SP305-6.**
- Y-modulation; Black level suppression; Nonlinear amplification; Scanning electron microscope; Signal differentiation; Signal processing; *15425*. **SP305-7.**
- Youden diagram; Collaborative reference programs; Inter-laboratory tests; Test method evaluation; *13955*. **SP305-6.**
- Youden plot; Analytical performance; Between-run; Calibration; Precision; Quality control; Systematic error; *SP422*, pp. 141-150 (Aug. 1976). **SP305-8.**
- Youden plot; Youden squares; Youden, W. J.; Calibration designs; Chain blocks; Collaborative tests; Diagnostic tests, index for rating; Experiment design, statistical; Graphical diagnosis; Interlaboratory tests; Randomization, constrained; Ruggedness test; *16115*. **SP305-8.**
- Youden's bivariate experiment; Accuracy; Analysis of variance; Measurement process; Precision; Regression line; Scheduling measurements; Statistical design of experiments; Systematic error; *12527*. **SP305-4.**
- Youden square; Block design; Design of experiments; Experimental design; Factorial design; Latin square; Statistical design; *10618*. **SP305-1.**
- Youden squares; Youden, W. J.; Calibration designs; Chain blocks; Collaborative tests; Diagnostic tests, index for rating; Experiment design, statistical; Graphical diagnosis; Inter-laboratory tests; Randomization, constrained; Ruggedness test; Statistical techniques; *16115*. **SP305-8.**
- Youden, W. J.; Calibration designs; Chain blocks; Collaborative tests; Diagnostic tests, index for rating; Experiment design, statistical; Graphical diagnosis; Interlaboratory tests; Randomization, constrained; Ruggedness test; Statistical techniques; Youden plot; *16115*. **SP305-8.**
- Youden, W. J.; Experiment design; Interlaboratory tests; Statistics; *13137*. **SP305-5.**
- Young modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Plutonium; Plutonium alloy; Poisson ratio; Shear modulus; Sound velocity; *16635*. **SP305-8.**
- Young's mixture rule; Electrolytes; Excess thermodynamic properties of mixtures; Mixture; Ternary solutions; Thermodynamics; *14515*. **SP305-6.**
- Young's modulus; Alumina; Elastic modulus; Resonance frequency; Shear modulus; Standard reference material; *J77A No. 4*, 391-394 (1973). **SP305-5.**
- Young's modulus; Alumina; Elastic modulus; Resonance frequency; Shear modulus; Standard reference material; *J75A No. 3*, 155-162 (1971). **SP305-3.**
- Young's modulus; Aluminum; Aluminum alloys; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Elasticity; Poisson ratio; Pulse-echo method; Sound velocity; *15528*. **SP305-7.**
- Young's modulus; Aluminum alloy; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Nickel steels; Poisson's ratio; Shear modulus; Sound velocity; *15522*. **SP305-7.**
- Young's modulus; Aluminum oxide; Corundum; Elastic constants; Shear modulus; *J7044-403*, 277-280 (1966). **SP305.**
- Young's modulus; Bulk modulus; Chromium alloys; Compressibility; Debye temperature; Doring effect; Elastic constants; Iron alloys; Magnetic transition; Nickel alloys; Poisson's ratio; Pulse-echo method; Sound velocity; *15343*. **SP305-7.**
- Young's modulus; Bulk modulus; Composite materials; Elastic constants; Filled polymers; Mechanical properties; Particulate composites; Poisson's ratio; Shear modulus; *16264*. **SP305-8.**
- Young's modulus; Bulk modulus; Composite; Compressibility; Elastic compliance; Elastic stiffness; Piezoelectric oscillator; Poisson's ratio; Shear modulus; *15523*. **SP305-7.**
- Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Poisson's ratio; Shear modulus; Sound velocity; Titanium alloys; *14172*. **SP305-6.**
- Young's modulus; Bulk modulus; Compressibility; Elastic constant; Debye temperatures; Iron; Iron alloys; Lamé constants; Nickel; Nickel alloys; Poisson's ratio; Shear modulus; *J. Phys. Chem. Ref. Data* 2, No. 3, 531-618 (1973). **SP305-6.**
- Young's modulus; Bulk modulus; Compressibility; Copper; Elastic constants; Poisson's ratio; Shear modulus; Single-crystal elastic coefficients; *J. Phys. Chem. Ref. Data* 3, No. 4, 897-936 (1974). **SP305-6.**

- Young's modulus; Bulk modulus; Compressibility; Elastic constants; Elasticity Lamé constant; Poisson ratio polycrystals; Shear modulus; Single crystals; 14871. SP305-7.
- Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constant; Nickel-chromium-iron alloys; Poisson's ratio; Shear modulus; Sound velocity; 15225. SP305-7.
- Young's modulus; Bulk modulus; Compressibility; Debye temperature; Elastic constants; Nickel-base alloys; Poisson's ratio; Shear modulus; Sound velocity; 15533. SP305-7.
- Young's modulus; Bulk modulus; Compressibility; Copper; Copper alloys; Elastic constants; Poisson ratio; Pulse-echo method; Resonance method; Shear modulus; Sound velocity; 16505. SP305-8.
- Young's modulus; Bulk modulus; Dental amalgam; Elastic constants; Poisson's ratio; Pulse-echo technic; Shear modulus; 10339. SP305-1.
- Young's modulus; Calcium molybdate; Compressibility; Debye temperature; Elastic constants; Shear modulus; 10718. SP305-1.
- Young's modulus; Chemically strengthened glass; Elevated temperature; Glass; Strength; 9835. SP305-1.
- Young's modulus; Cold-work; Dislocation relaxation; Internal friction; *n*-alkane; Relaxation process; 12581. SP305-4.
- Young's modulus; Composite; Low temperature; Poisson's ratio; Superconductor; Thermal expansion; NBSIR 73-349. SP305-6.
- Young's modulus; Composite materials; Elastic constants; Filled polymers; Mechanical properties; Particulate composites; Poisson's ratio; *J. Res.* 80A No. 1, 45-49 (1976). SP305-8.
- Young's modulus; Internal friction; Lanthanum titanate; Phase change; Resonance; Strontium titanate; Vacancies; 9447. SP305.
- Young's modulus; Yttria; Elastic moduli; Poisson's ratio; Porosity; Shear modulus; 10541. SP305-1.
- Y-transform; Fourier-transform; Functional transforms; Generalized MacRobert's function; Hankel transform, *K*-transform; Laplace transform, MacRobert's function; *J.17B1-194*, 23-37 (1967). SP305.
- Ytterbium; Bismuth; Gold; Hafnium; Ionization energies; Iridium; Lead; Lutetium; Mercury; Osmium; Platinum; Rhenium; Tantalum; Thallium; Tungsten; Wavelengths; 16420. SP305-8.
- Ytterbium; Cadmium fluoride; EPR; Superhyperfine interaction; 12312. SP305-3.
- Ytterbium; Cerium; Dysprosium; Erbium; Europium; Gadolinium; Hafnium; Holmium; Ionization energy; Lanthanum; Lutetium; Neodymium; Praseodymium; Promethium; Samarium; Terbium; Thulium; 13703. SP305-5.
- Ytterbium; Energy levels; Spectrum; Wavelengths; 15920. SP305-8.
- Ytterbium; Energy levels; Spectrum; 13660. SP305-5.
- Ytterbium; Radial integrals; Sack correction; 11837. SP305-3.
- Ytterbium compounds; Cerium compounds; Dysprosium compounds; Enthalpy; Entropy; Erbium compounds; Europium compounds; Gadolinium compounds; Gibbs energy of formation; Holmium compounds; Lanthanides; Lanthanum compounds; Lutetium compounds; *TN270-7*. SP305-5.
- Ytterbium, second spectrum; Zeeman effect in Yb II; Analysis of Yb II; Atomic energy levels of Yb II; Classified line of Yb II; Spectrum, Yb II; *J.17A6-470*, 396-545 (1967). SP305.
- Yttria; Elastic moduli; Poisson's ratio; Porosity; Shear modulus; Young's modulus; 10541. SP305-1.
- Yttria-germania system; Germania-yttria system; Immiscibility; Phase equilibrium; 14352. SP305-6.
- Yttrium; Atomic spectroscopy; Energy levels; Resonance lines; 11557. SP305-2.
- Yttrium; Coincidence spectrometry; Photon activation analysis; Rare earths; 11372. SP305-2.
- Yttrium; Spectra; Ultraviolet; Wavelengths; 12826. SP305-4.
- Yttrium; Spectra; Ultraviolet; Wavelengths; 15725. SP305-8.
- Yttrium; Zirconium; Molybdenum; Niobium; Rubidium; Spectra; Strontium; Ultraviolet; Wavelengths; 12675. SP305-4.
- Yttrium; Zirconium; Spectra; Ultraviolet; Wavelengths; 16134. SP305-8.
- Yttrium aluminum garnet; Absorption coefficient; Calcium Damage threshold; Deuterated potassium dihydrogen phosphate; Electrostriction; Electrostrictive self-focusing; Inclusion damage; Kerr effect; Laser damage; Lithium niobate 13793. SP305-5.
- Yttrium aluminum garnet; Absorption coefficient; Electrostriction; Kerr effect; Laser damage; Nonlinear refractive index; Optical glasses; Self-focusing; Thermal self-focusing; *SP387*, pp. 26-35. SP305-5.
- Yttrium aluminum garnet; Ellipse rotation; Glass; Nonlinear index; Nonlinear susceptibility; Self focusing; *SP387*, pp. 11-24. SP305-5.
- Yttrium compounds; Zirconium compounds; Enthalpy; Entropy; Gibbs energy of formation; Hafnium compounds; Heat of formation; Niobium compounds; Scandium compounds; Tantalum compounds; Titanium compounds; Vanadium compounds; *TN270-5*. SP305-3.
- Yttrium monofluoride; Electronic band spectrum; Rare earth research; 10682. SP305-1.
- Yttrium orthovanadate crystal damage; Damage morphology; Polishing compounds; Spot-size dependence; Surface defect; Rutile crystal damage; *SP414*, pp. 193-199. SP305-6.
- Yttrium vanadate; Phase diagram;  $Y_2O_3$ ,  $Y_2O_5$ ; 10190. SP305-1.
- Yttrium-88; Aluminum-26; Bismuth-207; Cobalt-60; Niobium-94; Radioactivity standardization; Sodium-22; Sum coincidence counting; 14299. SP305-6.
- Yugoslavia science and technology; Binational research cooperation; International scientific cooperation; Physical science research administration; Research planning; Scientific research abstracts; Special Foreign Currency Program *TN753*. SP305-5.
- $Y_2O_3$ ; Dislocations; Etching; Single crystal; 11725. SP305-2.
- $Y_2O_3$ ; IPTS-68; Melting point; Secondary temperature standards; Temperature scales; 14735. SP305-7.



- average molecular weight; Density; Differential refractive index; Gel permeation chromatography (GPC); Light scattering; Linear polyethylene; Melt flow rate; Molecular weight distribution; Number average molecular weight; Osmometry; Refractive index; SP260-42. SP305-4.
- z-dependence; Atomic number; Central potential; Electron scattering; Phase shift; 11392. SP305-2.
- Zeeman; Current; Modulator; Nuclear; Pulse; Quadrupole; Resonance; Spectroscopy; Transistor; 12350. SP305-3.
- Zeeman; Effect; Laser; Magnetic resonance; Oxygen; Rotational structure; 15335. SP305-7.
- Zeeman effect; Air pollution; Infrared spectroscopy; Lasers; Nitric oxide; 13079. SP305-5.
- Zeeman effect; Atomic beam; Autoionization; Differential metastability; Fine structure; Inner shell excitation; Rf spectroscopy; Rubidium; 16098. SP305-8.
- Zeeman effect; Atomic energy levels; Atomic spectra; Electron configurations; Neutral cerium; 14408. SP305-6.
- Zeeman effect; Chromium; Configurations in Cr I; Configurations ( $3d + 4s$ )<sup>4p</sup> in Cr I; Configuration interaction; Cr I; Energy levels of Cr I; J.74A No. 2, 157-179 (1970). SP305-2.
- Zeeman effect; Configurations in V I; Configurations ( $3d + 4s$ )<sup>4p</sup> in V I; Configuration interaction; Energy levels of V I; First spectrum; J.74A No. 2, 141-156 (1970). SP305-2.
- Zeeman effect; Cr<sup>2+</sup> in TiO<sub>2</sub>; Identification of excited state; <sup>4</sup>A<sub>2g</sub> - <sup>4</sup>T<sub>2g</sub> transition; 13548. SP305-5.
- Zeeman effect; Dense molecular clouds; Magnetic field; Orion A; Radio astronomy; Sulfur monoxide; 14499. SP305-6.
- Zeeman effect; H<sub>2</sub>CO; Magnetic hyperfine structure; RF transition; 9412. SP305-5.
- Zeeman effect; Lasers; Methane; Saturated absorption; 12179. SP305-3.
- Zeeman effect; Rubidium; Spectra; Ultraviolet; Wavelengths; 13196. SP305-5.
- Zeeman effect; Rubidium; Spectra; Ultraviolet; Wavelengths; 13662. SP305-5.
- Zeeman effect; Hf I; Analysis, Hf I spectrum; Hafnium, analysis of first spectrum; Spectrum, Hf I; *Monogr.* 153. SP305-8.
- Zeeman effect in Yb II; Analysis of Yb II; Atomic energy levels of Yb II; Classified line of Yb II; Spectrum, Yb II; Ytterbium, second spectrum; J.71A6-470, 396-545 (1967). SP305.
- Zeeman-effect of Th I; Energy levels; Thorium; Th I; Wavelengths; J. Res. 80A No. 2, 221-358 (1976). SP305-8.
- Zeeman filter; Atomic beams; Double resonance; Isotope shifts; Lande g-factor; Mercury hyperfine structure; 9839. SP305-1.
- Zeeman levels; Electron paramagnetic resonance; HCN laser; Molecular oxygen; 10933. SP305-2.
- Zeeman spectroscopy; Electric discharge; Electron paramagnetic resonance; Fine structure separation; G factors; Metastable atomic nitrogen; 10595. SP305-1.
- Zeeman spectrum; Asymmetric rotor levels; HO<sub>2</sub>; Laser magnetic resonance; Rotational constants; Spectral assignments; Spin splitting; 15067. SP305-7.
- Zeeman spectrum; Asymmetric rotors; Doublet states; HO<sub>2</sub>; Laser magnetic resonance; Least squares fit; Rotational analysis; 14910. SP305-7.
- Zener diode; D-C amplifier; Design equations; Differential amplifier; Dual regulator; Integrated circuit; Output resistance; Power dissipation; Power supply; Preregulator; Regulation factor; Ripple voltage; Transistor; Voltage regulation; TN371. SP305-1.
- Zener diode; Electrical measurements; Instrumentation; Standard cell; Voltage standard; 10925. SP305-2.
- Zener diodes; Ac-dc transfer standards; Capacitors; Current transformers; Dielectric measurements; Electrical calibrations; Electrical measurements; Electrical standards; Electrical units; High voltage measurements; Inductive voltage dividers; SP300, Volume 3. SP305-1.
- Zener reference diodes; Diodes, reference; Long-term stability; Reference diodes; 9694. SP305-1.
- Zeolite; Adsorption potential; Charcoal; Helium; High-pressure physical adsorption; Hydrogen; Low temperature; Neon; 9840. SP305-1.
- Zeolite; Hydrogen gas; Low temperature; Methane; Nitrogen; Physical adsorption; Synthetic zeolite; 9841. SP305-1.
- Zeolites; Air pollution; Bilirubin; Infrared analysis; Ion exchange; Liquid chromatography; Purification; Separation; Styrene/divinylbenzene; TN549. SP305-3.
- Zero bias resistance; Correction factor; Crystallographic orientations; Effective contact radius; Interfaces; Metal-semiconductor contacts; Multilayered structure; Piezoresistivity; Resistivity; Spreading resistance; Stress; SP400-10, pp. 17-26. SP305-6.
- Zero-crossing; Discriminator; Picosecond; Resolution; Time-invariant; Wide-range; 10125. SP305-1.
- Zero crossings; Clock errors; Dispersion of clock reading; Flicker noise; Random-walk noise; Renewal equation; Renewal processes; Statistics of clock ensembles; White noise; 11332. SP305-2.
- Zero field EPR; Amethyst; Ferric ion; Iron-doped quartz; Synthetic brown quartz; 11272. SP305-2.
- Zero-g; Materials processing; Perfection; Purity; Space manufacturing; Space processing; NBSIR 73-402. SP305-6.
- Zero gravity; Boiling heat transfer; Bubble dynamics; Cavitation; Condensing heat transfer; Correlations; Cryogenic fluid safety; Fluid dynamics; Fluid transfer; Heat transfer; Heat transfer equipment; Liquid helium; Liquid hydrogen; Liquid nitrogen; 13242. SP305-5.
- Zero phonon line; Charge transfer, color centers; Crystal field; D<sup>2+</sup> ions; EPR; Iron 4+; Optical absorption; Perovskite; Strontium titanate; Transition metal; 16201. SP305-8.
- Zero-point entropy; CD<sub>4</sub>; CHD<sub>3</sub>; CH<sub>3</sub>D; CH<sub>2</sub>D<sub>2</sub>; Heat capacity; Heat capacity anomaly; Residual entropy; 11269. SP305-2.
- Zero point motion; Anharmonicity; Dislocations in lattices; Peierls stress; SP317, pp. 253-272. SP305-3.
- Zero-range; Cross section; Differential cross section; <sup>3</sup>H; <sup>4</sup>He; Photodisintegration; 9341. SP305.
- Zero range approximation; Continuum; Electron scattering; Helium-3; Monopole state; Multipole decomposition; 15608. SP305-7.
- Zero shift; Accelerometer; Performance characteristics; Piezoelectric; Test method; Thermal radiation; Thermal transient; TN855. SP305-7.
- Zero shift; Calibration; Dynamic; Electronic flash; Photographic flashbulb; Pressure; Pressure measurement; Pressure transducer; Thermal transient; Transducer; TN905. SP305-8.
- Zero shift; Calibration; Dynamic; Electronic flash; Photoflash bulb; Pressure; Pressure measurement; Pressure transducer; Pressure transducer response; Response; Thermal transient; Transducer; NBSIR 76-1038. SP305-8.
- Zero shift; Coatings; Dynamic; Magnetic response; Pressure transducer; Protective coatings; Shock tube; Tape; Thermal radiant-energy response; Thermal transient response; Transducers; NBSIR 76-1144. SP305-8.
- Zero shift; Life testing; Pressure transducer; Sensitivity shift; Strain gauge; Temperature cycling; Temperature storage; TN497. SP305-1.
- Zero shift; Pressure measurement errors; Pressure transducers; Response; Temperature; Thermal gradients; TN490. SP305-1.
- Zeros of Legendre polynomials; Gaussian quadrature; Integral equations; Numerical integration; J.70B4-186, 249-256 (1966). SP305.
- Zeros of polynomials in regular sets; Basic sets; Cannon sum of basic sets; Lower semiblock matrices; Order of basic sets; J. 76B Nos. 3 and 4, 153-159 (1972). SP305-4.

- Zero vibrational state of the ground electronic state; Bond dissociation energy; Gaseous state; Inorganic simple compounds; Recommended value; *NSRDS-NBS31, SP305-2.*
- Zeta potential; Crack propagation; Fracture; Glass; *15426, SP305-7.*
- Zeta-potential; Electrokinetic potential glass; Interface; Liquid/solid interface; Solid/liquid interface; Surfaces; *14732, SP305-7.*
- Zimm theory; Bead-spring model; Block copolymers; Dilute polymer solutions; Limiting viscosity number; Mandelkern-Flory-Scheraga equation; Molecular weight determination; Sedimentation coefficient; Translational diffusion coefficient; *16026, SP305-8.*
- Zimm theory; Bead-spring model; Block-copolymers; Dilute solutions; Dynamics; Limiting viscosity number; Solution properties; Viscoelasticity; *15373, SP305-7.*
- Zimm theory; Bead-spring model; Chain molecules; Chain stiffness; Deoxyribonucleic acid; Dilute solutions; Hydrodynamic interaction; Polystyrene; Viscoelasticity; *15114, SP305-7.*
- Zinc; Accuracy; Atomic fluorescence; Automatic scatter correction; Cadmium; Chemical interferences; Data evaluation; Precision; Production of atomic vapor; *15012, SP305-7.*
- Zinc; Activation analysis; Cockcroft-Walton neutron generator; Computer literature searching; Extraction; Group separations; Homogeneity testing; Hydrogen bis (2-ethylhexyl) phosphate; Matrix effect; Molybdenum; NBS LINAC; NBS reactor; *TN458, SP305-1.*
- Zinc; Adriatic Sea; Cadmium; Copper; Electrochemical analysis; Heavy metals; Lead; Seawater analysis; Speciation; Stability of water samples; *SP422, pp. 917-928 (Aug. 1976), SP305-8.*
- Zinc; Alloys; Aluminum; Catalysis; Hydrogenation; Iron; Mössbauer spectra; *16537, SP305-8.*
- Zinc; Aluminum; Cadmium; Cryogenics; Indium; Lead; Magnetic susceptibility; Superconductive transition temperature; Superconductivity; Thermometric fixed points; *SP260-44, SP305-4.*
- Zinc; Atomic absorption; Cadmium; Copper; Lead; Manganese; Sensitivity; Spectrophotometry; Statistical methods; *SP422, pp. 1023-1033 (Aug. 1976), SP305-8.*
- Zinc; Atomic absorption spectrophotometry; Calcium; Container effects; Copper; Magnesium; Potassium; Serum minerals; Serum storage effects; Sodium; Temperature effects; Trace elements; *SP422, pp. 575-591 (Aug. 1976), SP305-8.*
- Zinc; Atomic spectra; Cadmium; Copper; Energy levels; Energy parameters; Silver; Thallium; *11390, SP305-2.*
- Zinc; Atomic spectra; Emission spectroscopy; Wavelengths; *11907, SP305-3.*
- Zinc; Atomic spectra; Energy levels; Silver; *J74A No. 1, 7-10 (1970), SP305-2.*
- Zinc; Batch; Column; Cationic exchanger; EDTA; Radiometric; Titrations; *10386, SP305-1.*
- Zinc; Cadmium; Coulometry; Extraction; Microanalysis; Solvent; Substoichiometric radioisotope dilution; Trace; *10664, SP305-1.*
- Zinc; Cadmium; Mercury; Spectra; *13150, SP305-5.*
- Zinc; Electrodeposition; Isotope dilution; Preconcentration; Spark source mass spectrometry; Trace elements; *11514, SP305-2.*
- Zinc analysis; Computing; Digital readout; Electron probe; Emulsion calibration; Emulsion sensitivity; Gold analysis; Isotope dilution method; Microprobe grid scanner; Optical spectrometry; Plasma torch; Platinum analysis; Preconcentration; *TN452, SP305-1.*
- Zinc, atomic weight; Atomic weight; Coulometry; *J75A No. 6, 561-564 (1971), SP305-3.*
- Zinc atomic weight; Atomic weight; Coulometry; Electrochemical equivalent; *J79A No. 6, 737-745 (1975), SP305-7.*
- Zinc atomic weight; Atomic weight; Coulometry; Electrochemical equivalent; *J79A No. 6, 747-759 (1975), SP305-7.*
- Zincblende; ZnSe; Aluminum phosphide (AlP); Electronic density of states; Exchange potential; Gallium arsenide (GaAs) Germanium; Self-consistent orthogonalized plane wave method (SCOPW); Semiconductors, tetrahedrally bonded; Silicon *SP323, pp. 93-102, SP305-4.*
- Zincblende structure; ZnTe; Electronic density of states; Gallium arsenide (GaAs); Indium antimony (InSb); Indium arsenide (InAs); Joint density of states; Nonlinear optical susceptibility; Optical properties; *SP323, pp. 757-766, SP305-4.*
- Zinc, determination of; Cadmium; determination of; Chemical analysis; Copper; determination of; Polarography; *10686, SP305-1.*
- Zinc dibutyldithiocarbamate; Zinc dimethyldithiocarbamate Accelerators; Far infrared; Natural rubber; Sulfur Tetramethylthiuram disulfide; Vulcanization; *J71A1-432, 19-23 (1967), SP305.*
- Zinc dimethyldithiocarbamate; Accelerators; Far infrared Natural rubber; Sulfur; Tetramethylthiuram disulfide; Vulcanization; Zinc dibutyldithiocarbamate; *J71A1-432, 19-23 (1967), SP305.*
- Zinc nuclei; Electron scattering; Nuclear radii; Nuclear sizes *12928, SP305-4.*
- Zinc oxide; Dislocation; Electrochemical; Exchange current Semiconductors; Traps; *SP455, pp. 139-148 (Nov. 1976), SP305-8.*
- Zinc oxide-EBA-eugenol cements; Crown and bridge cements Dental cements; EBA cements; EBA sedative bases; Intermediate restorative; *o*-ethoxybenzoic acid cements; Pulp capping materials; *SP354, pp. 101-111, SP305-4.*
- Zinc oxide-eugenol cement; Filling material; *o*-ethoxybenzoic acid; Solubility and disintegration; *9596, SP305-1.*
- Zinc oxide-eugenol cements; Dental cements; Dental materials EBA cements; New developments in dental materials; *10319, SP305-1.*
- Zinc oxide-eugenol-EBA cements; Alumina as a reinforcing agent;  $Al_2O_3$  reinforced cements; Crown and bridge; Dental cements; EBA cements; *10852, SP305-1.*
- Zinc point; Aluminum point; Calibration; Freezing point; Freezing-point cell; Platinum resistance thermometer; Tin point; *15337, SP305-7.*
- Zinc point; Comparator; International Practical Temperature Scale of 1968; IPTS-68; Oxygen point; Platinum resistance thermometer; Temperature standard; Tin point; Triple point of water; *J. Res. 80A No. 3, 477-504 (1976), SP305-8.*
- Zinc powder; Archival record film; Microfilm; Microfilm storage cartons; Permanent record film; Peroxides; Redox blemishes; *J74A No. 1, 31-36 (1970), SP305-2.*
- Zinc selenide; Copper; Molybdenum; Optician; Polishing; Surfaces; *SP435, pp. 10-13 (Apr. 1976), SP305-8.*
- Zinc selenide;  $CO_2$  pulsed laser damage; Damage threshold; Laser windows; Twin structure; *SP414, pp. 85-92, SP305-6.*
- Zinc selenide; Refractive index; Temperature coefficient of refractive index; *SP435, pp. 170-174 (Apr. 1976), SP305-8.*
- Zinc selenide coatings; Laser antireflective coatings; Materials purification requirements; Pulsed laser damage; Rare earth fluorides; *SP462, pp. 271-278 (Dec. 1976), SP305-8.*
- Zinc selenide window; Computer analysis; Laser induced stresses; Stress analysis; Thermal analysis; *SP462, pp. 29-35 (Dec. 1976), SP305-8.*
- Zinc spelter; Cadmium; Coulometry; Electrolysis; Radioactive tracers; Radioisotope dilution; Substoichiometric; Trace analysis; *10412, SP305-1.*
- Zinc tungstate; Dielectric constant; Single crystal; *11723, SP305-2.*
- Zinc (Zn); Cobalt; Copper; Electronic density of states; Iron; Nickel; Satellite emissions; Soft absorption; Soft x-ray emission; X-ray spectroscopy; *SP323, pp. 319-326, SP305-4.*

- Zinc (Zn); Dielectric constant; Electronic density of states; Molybdenum (Mo); Optical density of states; Optical properties; Photoemission; Reflectivity; Tungsten (W); *SP323*, pp. 209-215. **SP305-4.**
- Zintl phase; B-32 structure; Knight shifts; LiCd; Linewidths; LiZn; Nuclear magnetic resonance; *10281*. **SP305-1.**
- Zintl phases; Chemical bonding; Phase stabilization; Pseudopotential; *13212*. **SP305-5.**
- Zirconates; Coal slag; Electrical conductivity; High temperature; Magneto-hydrodynamics; *14081*. **SP305-6.**
- Zirconia; Alumina;  $Al_2O_3$ ; Ceramics; Electron microscopy; Fine-grain ceramic; Ion bombardment; Magnesia; MgO; Microstructure; Rock; *12083*. **SP305-3.**
- Zirconia; Alumina; Ceramic oxides; Emission; Error sources; Magnesia; Measurement uncertainties; Spectral emission; Thermal radiation; Thoria; *J.70A5-412*, 393-415 (1966). **SP305.**
- Zirconia;  $ZrO_2 \cdot 12Nb_2O_5$ ; Electron microscopy; Lattice images; Niobia; Polymorphism; *12059*. **SP305-3.**
- Zirconium; Alloy diffusion; Beryllium; Cerium; Cesium; Chromium; Copper; Diffusion; Electromigration; Europium; Grain boundary diffusion; Hydrogen; Impurity diffusion; Interdiffusion; Lanthanum; *J. Phys. Chem. Ref. Data* 4, No. 1, 177-250 (1975). **SP305-7.**
- Zirconium; Alloys; Cobalt; Hyperfine fields; Iron; Mössbauer effect; *10610*. **SP305-1.**
- Zirconium; Aluminum; Composites; Coupling agents gold; Mercaptan; Methacrylates; Polymers; Resin; Silane; Tantalum; *13620*. **SP305-5.**
- Zirconium; Bibliography on spectroscopy of fluorides and oxides of the lanthanide series; Calculation of dissociation energies; Electrical resistivity; Enthalpy of transition; Graphite; Infrared matrix isolation spectroscopy; Melting point; Radiance temperature; *NBSIR* 74-600. **SP305-7.**
- Zirconium; Electrical resistivity; Emission; Heat capacity; High-speed measurements; High temperature; Thermodynamics; Thermophysical properties; *J.79A No. 4*, 509-514 (1974). **SP305-6.**
- Zirconium; Electrical resistivity; High-speed measurements; High temperature; Melting point; Normal spectral emission; Radiance temperature; *15612*. **SP305-7.**
- Zirconium; Electrical resistivity; High-speed measurements; High temperature; Solid-solid phase transformation; Thermodynamics; *J.79A No. 1*, 81-84 (1975). **SP305-7.**
- Zirconium; Field-ion microscopy; *16466*. **SP305-8.**
- Zirconium; Molybdenum; Niobium; Spectra; Ultraviolet; Wavelength; *16425*. **SP305-8.**
- Zirconium; Spectra; Ultraviolet; Wavelengths; *13084*. **SP305-5.**
- Zirconium; Spectra; Ultraviolet; Wavelengths; Yttrium; *16134*. **SP305-8.**
- Zirconium compounds; Enthalpy; Entropy; Gibbs energy of formation; Hafnium compounds; Heat of formation; Niobium compounds; Scandium compounds; Tantalum compounds; Titanium compounds; Vanadium compounds; Yttrium compounds; *TN270-5*. **SP305-3.**
- Zirconium hydrides; Beta zirconium hydrides; Statistical model; *9302*. **SP305.**
- Zirconium-niobium oxide; Crystal structure; Intergrowth; Lattice-image; Polymorphism; *SP364*, pp. 165-182. **SP305-4.**
- Zirconium zirconium; Anderson Hamiltonian; Barium (Ba); Calcium; Chemisorption; Electron density of states; Field-emission resonance tunneling; Germanium; Tungsten (W); Tunneling; *SP323*, pp. 375-379. **SP305-4.**
- Zirconium (Zr); Copper; Direct versus nondirect transitions; Electronic density of states; Gold (Au); Nondirect transitions; Optical density of states; Photoemission; Scandium (Sc); Silver (Ag); Titanium (Ti); *SP323*, pp. 205-208. **SP305-4.**
- Zn; Ag; Al; Alloys; Au; Cd; Cu; Ga; Hg; Hyperfine fields; In; Knight shift; Noble metals; P; Sn; Susceptibility; *10837*. **SP305-1.**
- Zn lamp; Detection; Fluorescence;  $H_2O$ ;  $SO_2$ ; *14380*. **SP305-6.**
- ZnS; CdCl<sub>2</sub>; Density of states; HgO; Noble metals; Rigid band model; Transition metals; X-ray photoemission; *SP323*, pp. 163-178. **SP305-4.**
- ZnS; CdCl<sub>2</sub>; Density of states; HgO; Noble metals; Rigid band model; Transition metals; X-ray photoemission; *J.74A No. 4*, 543-558 (1970). **SP305-2.**
- ZnS; CeF<sub>3</sub>; CO<sub>2</sub> pulsed laser damage; Coating topography; KCl; Laser window coatings; *SP435*, pp. 236-243 (Apr. 1976). **SP305-8.**
- ZnS; Electric fields; Ionic crystals; Lattice sums; Point defects; Polarization; NaCl; CsCl; CaF<sub>2</sub>; *J.71A1-428*, 1-2 (1967). **SP305.**
- ZnS; ZnSe; II-VI compounds; CdS; Differential techniques; Electric field broadening; Electroluminescence; Excitons; Stark effect; *10638*. **SP305-1.**
- ZnS;  $Zn_2Cd_{1-x}S$ ; Laser Raman spectra; Polycrystalline; *SP364*, p. 721. **SP305-4.**
- ZnSe; Aluminum phosphide (AlP); Electronic density of states; Exchange potential; Gallium arsenide (GaAs); Germanium; Self-consistent orthogonalized plane wave model (SCOPW); Semiconductors, tetrahedrally bonded; Silicon; Zincblende; *SP323*, pp. 93-102. **SP305-4.**
- ZnSe; A/R coatings; Damage thresholds; Machined mirrors; *SP414*, pp. 53-58. **SP305-6.**
- ZnSe; As<sub>2</sub>S<sub>3</sub>; Laser coatings; Laser reflectors; Laser windows; Pulsed CO<sub>2</sub> laser damage, ThF<sub>4</sub>; *SP414*, pp. 59-65. **SP305-6.**
- ZnSe; BaF<sub>2</sub>; CaF<sub>2</sub>; Fused silica; Interferometry; Photoelasticity; Piezo-optic constants; Thermal coefficient of refractive index; Thermal expansion coefficient; *SP462*, pp. 58-63 (Dec. 1976). **SP305-8.**
- ZnSe; BaF<sub>2</sub>; CaF<sub>2</sub>; Fused silica; Interferometry; Photoelasticity; Piezo-optic constants; Refractive index; Thermal coefficient of refractive index; Thermal expansion coefficient; *NBSIR* 76-111.5. **SP305-8.**
- ZnSe; Birefringence; Elastic constants; Infrared-laser window materials; Interferometry; KCl; Photoelasticity; Polycrystalline ZnSe; Refractive index; Stress-optic constants; Thermal coefficient of refractive index; *NBSIR* 75-781. **SP305-7.**
- ZnSe; Chemical vapor deposited ZnSe; Elastic compliance; Elastic constants; Polycrystalline ZnSe; Refractive index; Stress-optic constants; Temperature coefficient of index; Thermal expansion; *15938*. **SP305-8.**
- ZnSe; CO<sub>2</sub> laser radiation; Cu; CW laser damage; Grating; Infrared windows; KCl; Mirror; Mo; NaCl; Window; *SP435*, pp. 189-201 (Apr. 1976). **SP305-8.**
- ZnSe; CO<sub>2</sub> laser radiation; CW laser damage; Infrared windows; KCl; NaCl; Optical distortion; *SP414*, pp. 94-102. **SP305-6.**
- ZnSe; Far field intensity; Laser windows; Thermal distortion; Thermal lensing; *SP435*, pp. 142-147 (Apr. 1976). **SP305-8.**
- ZnSe; II-VI compounds; CdS; Differential techniques; Electric field broadening; Electroluminescence; Excitons; Stark effect; ZnS; *10638*. **SP305-1.**
- ZnSe; KCl; NaCl; Pulsed CO<sub>2</sub> TEA laser damage; Transmitted pulse; Waveform distortion; *SP435*, pp. 107-117 (Apr. 1976). **SP305-8.**
- ZnSe;  $ZnSc_xTe_{1-x}$ ; Absorption coefficient; Emission spectra; KBr; CdTe; *SP387*, pp. 250-253. **SP305-5.**
- ZnSe; 10.6  $\mu$ m; Absorbing inclusions; Damage statistics; Laser damage; Reflectors; ThF<sub>4</sub>; Thin film; *SP435*, pp. 216-229 (Apr. 1976). **SP305-8.**
- ZnSe;  $Te_{1-x}Se_x$ ; Absorption coefficient; Emission spectra; KBr; CdTe; ZnSe; *SP387*, pp. 250-253. **SP305-5.**
- ZnTe; As<sub>2</sub>S<sub>3</sub>; CdTe; Dielectric reflector; Inclusions in dielectrics; KCl; Pulsed CO<sub>2</sub> laser damage; Thin film damage; *SP387*, pp. 157-169. **SP305-5.**

- ZnTe; Electronic density of states; Gallium arsenide (GaAs); Indium antimony (InSb); Indium arsenide (InAs); Joint density of states; Nonlinear optical susceptibility; Optical properties; Semiconductors; *SP23*, pp. 757-766. **SP305-4.**
- $\text{Zn}_2\text{Cd}_{1-x}\text{S}$ ; Laser Raman spectra; Polycrystalline; ZnS; *SP364*, p. 721. **SP305-4.**
- Zodiacal light; Photometry; *11098*. **SP305-2.**
- Zonal dislocations; Dislocation dissociation; Lattice shuffling; Partial dislocations; Twinning; *SP317*, pp. 495-529. **SP305-3.**
- Zonal dislocations; Dislocation geometry; Twinning; *SP317*, pp. 479-493. **SP305-3.**
- Zonal harmonics; Diurnal phase; Omega; Time; Time dissemination; VLF propagation; *TN610*. **SP305-4.**
- Zone-refined iron; Alloys; Dilute, binary alloys; Hydrogen-purified; Hydrogen-purified iron; Iron; *10874*. **SP305-2.**
- Zone-refined, iron; Extrapolation methods; Grain size; Hall-Petch parameters; Iron, zone-refined; *9634*. **SP305-1.**
- Zone-refined iron; Flow stress; Impurity softening; Lattice solution; Lower yield stress; Nitrogen; Polycrystals; Solution hardening; Upper yield point; *11946*. **SP305-3.**
- Zone refining; Crystal growth; Fermi surface; Orientation; Potassium; Spark cutting; *J71A2-443*, 127-132 (1967). **SP305.**
- Zone refining; Fermi surface; Magnetoacoustic absorption; Potassium; Single crystals; *9197*. **SP305.**
- Zone refining; Ion exchange; Purification; Reagents; *TN429*. **SP305-1.**
- Zoning; Building code; Climate; Control; Coordinate; Economics; Geography; Political; Technical; Technology; *9555*. **SP305-1.**
- Zoning; Building codes; Building laws and regulations; Building materials—testing and evaluation; Building systems; Industrialized housing; Mobile homes; Modular construction; Prefabrication; *NBS-GCR-73-19*. **SP305-8.**
- $\text{ZrF}_3$ ,  $\text{ZrF}_4$ ,  $\text{ZrF}_6$ ,  $\text{CaF}_2$ ; Entropy; Geometry; Infrared spectra; Matrix isolation; Stability; *13567*. **SP305-5.**
- $\text{ZrO}_2 \cdot 12\text{Nb}_2\text{O}_5$ ; Electron microscopy; Lattice images; Niobia; Polymorphism; Zirconia; *12059*. **SP305-3.**
- Zwanzig-Lauritzen model; Critical indices; Critical phenomena; Phase transition; Polymer crystallization; *11685*. **SP305-2.**
- Zwanzig-Mori formalism; Hydrodynamic regime; Ideal gas memory function; Limit of stability; Metastable fluid states; Nonhydrodynamic regime; Relaxation time; Transport coefficients; *16601*. **SP305-8.**
- $\zeta_2$ ,  $\zeta_4$ ; Band contours;  $\text{BF}_3$ ; Coriolis force; Force fields; High resolution; Infrared;  $\nu_3$ ; Vibration-rotation; *9268*. **SP305.**
- $\zeta_2$ ; Band contours;  $\text{BF}_3$ ; Coriolis force; Force fields; High resolution; Infrared;  $\nu_3$ ; Vibration-rotation;  $\zeta_2$ ; *9268*. **SP305.**
- 0.001 to 30 MeV; Fission cross section ratios; Linear accelerator; Time-of-flight technique; Uranium isotopes— $^{235}\text{U}$ ,  $^{238}\text{U}$ ,  $^{239}\text{Pu}$ ,  $^{240}\text{Pu}$ ; *SP425*, pp. 591-596. **SP305-7.**
- 0.06 Å resolution; Spectrography; Synchrotron light; Grazing-incidence; 3-meter; Monochromator alignment; *9355*. **SP305.**
- 0.1 matrices; Block design; Combinatorial analysis; Configurations; König's theorem; Matrices; Matrix equations; Permutation matrix decomposition; *J75B* Nos. 1 and 2, 23-30 (1971). **SP305-3.**
- 0.1 to 3.0 MeV; Carbon; Copper; Experimental cross sections; Gold; Inelastic electron scattering; Multiple scattering; *12113*. **SP305-3.**
- 0-1.8 kbars stress; Anisotropic stress effect; Hydrostatic pressure; Nb-doped  $\text{SrTiO}_3$ ; Reduced  $\text{SrTiO}_3$ ; Superconductivity; Transition temperatures; Uniaxial compression; *11767*. **SP305-2.**
- 0.335-14.7 MeV; Excitation curve; Neutron elastic scattering;  $^{115}\text{In}^m$ ; *SP425*, pp. 859-861. **SP305-7.**
- 0.48 to 10 K; Clustering;  $\text{Co}_{90}\text{Ni}_{10}$  alloy; Electronic specific heat; Specific heat; *11843*. **SP305-3.**
- 0.694  $\mu\text{m}$ ;  $\text{Ag}_3\text{AsS}_3$ ; Proustite; Pulse duration dependence; Repetition rate dependence; Surface damage; *1.06 \mu\text{m}; *SP387*, pp. 239-249. **SP305-5.***
- 0.694  $\mu\text{m}$ ; Back-scattering; Precatastrophic damage; Pulse dynamics; Reflection; Ruby laser; Surface damage; Temporal pulse monitoring; Transmission; *SP414*, pp. 179-189. **SP305-6.**
- $1^+$  state; 15.11 MeV; Electron scattering; Extrapolation,  $\gamma$ ; Low  $q^2$ ; *13658*. **SP305-5.**
- 1-acylamido sugars; Aldofuranoid sugars; Aldopyranoid sugars; Infrared spectra; Absorption spectra; Acyclic sugars; *J71A1-437*, 53-79 (1967). **SP305.**
- 1-butene; Abstraction reactions; Addition reactions; Atomic oxygen; Reaction kinetics; *13977*. **SP305-6.**
- 1-butene; Far ultraviolet; Free radical reactions; Ion-molecule reactions; Photochemistry; Primary processes; *14773*. **SP305-7.**
- 1-butene; Field low mass spectrometry; Hydrazine; Photodissociation; Propene; *9971*. **SP305-1.**
- 1-butene; Low temperature chemistry; Olefins; Oxidation; Oxygen atom; Propylene; *10377*. **SP305-1.**
- 1-butene; 1,5 hexadiene; 4-methylpentene-1; 4,4-dimethylpentene-1; Allyl radicals; Allylic resonance energy; Single pulse shock tube; T-butyl radicals; Thermal decomposition; *10105*. **SP305-1.**
- 1-butene; 2-butene; Concurrent reactions; Consecutive reactions; Controlled oxidation; Conventional additive experiments; Cool-flames; Intermediate products; Isobutane; Isotopic tracer techniques; Isotopically-labelled additives; *SP357*, pp. 111-117. **SP305-4.**
- 1-chloronaphthalene; 1,2,4-trichlorobenzene; Decalin; Limiting viscosity number; Linear polyethylene; Solution viscosity; Viscometer; *J76A* No. 2, 147-149 (1972). **SP305-4.**
- 1-chloronaphthalene; 1,2,4-trichlorobenzene; Differential refractive index;  $dn/dc$ ; Refractive index; Refractometer; *J76A* No. 2, 151-155 (1972). **SP305-4.**
- 1-chloronaphthalene; 1,2,4-trichlorobenzene; Fractionation; Limiting viscosity number; Linear polyethylene; Mark-Houwink; Molecular weight; Stockmayer-Fixman; Unperturbed dimensions; Viscosity; *14054*. **SP305-6.**
- $^1\text{O}_2$ ; Lasers; Photochemistry; Photooxidation; *13300*. **SP305-5.**
- $^1\text{O}_2$ ; Lasers; Photochemistry; *14635*. **SP305-6.**
- $1/f$  noise; Flicker noise; Low frequency noise; Mechanical model; Modulation noise; Noise; Noise model; Noise simulation; Precision measurements; Random noise; Reasonable perturbations; Spectral density; *10555*. **SP305-1.**
- $1 \leq F_n \leq 30$  MeV; Gas scintillation transmission counters; Neutron flux determination; *SP425*, pp. 277-280. **SP305-7.**
- $1\eta$ ;  $\alpha$ -counter; Alpha particles; Backscattering; *10565*. **SP305-1.**
- 1 keV — 1 MeV;  $^{239}\text{Pu}$ ;  $^{240}\text{Pu}$ ; Cross-sections; Fission; Measured; Neutrons — *SP425*, pp. 564-567. **SP305-7.**
- 1 N  $\text{H}_2\text{SO}_4$ ; Oxide; Passive; Spinel; Amorphous; Diffraction; Fe-Cr; Lattice parameter; *13004*. **SP305-4.**
- $1^{--}$  states;  $\text{E}^+\text{e}^-$  annihilation; Exotic mesons; Meson classification;  $\psi$  and  $\chi$  particles; *15961*. **SP305-8.**
- 1st negative band; Crossed beams; Cross sections; Excitation of  $\text{N}_2^+$ ; *14446*. **SP305-6.**
- 1-*n*-butoxy-2,3,5,6-tetrafluoro-4-trifluoromethylbenzene; Perfluoro-*p*-quinonemethide; Polymerization; Poly-*p*-oxyperfluorobenzene; Pyrolysis; 2,3,5,6-tetrafluoro-4-trifluoromethylphenol; *J71A1-434*, 33-41 (1967). **SP305.**
- $^{10}\text{B}$ ; Cross sections; Light elements; R-matrix; Standards;  $^6\text{Li}$ ; *SP425*, pp. 302-308. **SP305-7.**
- $^{10}\text{B}$ ;  $^6\text{Li}$ ; Neutron cross section; Standard; *SP425*, pp. 232-235. **SP305-7.**
- $^{10}\text{B}$ (n, $\alpha$ );  $^{235}\text{U}$ (n,f);  $^{237}\text{Np}$ (n,f); Au(n, $\gamma$ ); C(n,n); H(n,n); Neutron flux determination; Standard cross sections;  $^3\text{He}$ (n,p);  $^6\text{Li}$ (n, $\alpha$ ); *SP425*, pp. 293-301. **SP305-7.**



- <sup>10</sup>B( $n,\alpha$ )<sup>7</sup>Li reaction; Branching ratio; Gas proportional counter; Neutrons; Nuclear physics; T( $p,n$ ) neutrons; 14813. SP305-7.
- 100-MeV electrons; Aluminum; Carbon; Depth dose; Depth-dose distributions; Dye-film dosimeters; Polyethylene; Polystyrene; Radiochromic dyes; NBSIR 73-413. SP305-6.
- 100 Mc/s; Coincidence; Direct-coupled; Gate; Nanosecond; Time-of-flight; 2 out of 3; 10126. SP305-1.
- 100 MeV-40 KW LINAC; Clean room; Computers; Counting rooms; Feedback analysis; Optimization of variables 10 MW nuclear reactor; Pneumatic tubes; Radiochemical laboratories; 14 MeV neutron generator; 9154. SP305.
- (100) surface of copper; Heat transfer to helium II; Interfacial thermal resistance; Kapitza conductance of copper; Kapitza conductance of indium; Kapitza conductance of niobium; X-ray diffraction examination of single crystal lattice damage; NBSIR 75-812. SP305-7.
- (100) surface of copper; Heat transfer to helium II; Interfacial thermal resistance; Kapitza conductance; Kapitza conductance of copper; X-ray diffraction examination of single crystal lattice damage; 15737. SP305-8.
- 10105 steel; Chemical shift; Hyperfine peaks; Mössbauer spectra; Retained austenite; Singlet center peak; X-rays; 10873. SP305-2.
- <sup>101</sup>Mo, <sup>102</sup>Ru; <sup>127</sup>I; Adjustment; Evaluation; Fission products; Sensitivity analysis;  $\sigma_f$ ; SP425, p. 165-168. SP305-7.
- 10<sup>-3</sup> to 10<sup>-4</sup> torr range; Pressure generation; 16028. SP305-8.
- 10.6  $\mu$ m; Absorbing inclusions; Damage statistics; Laser damage; Reflectors; ThF<sub>4</sub>; Thin film; ZnSe; SP435, pp. 216-229 (Apr. 1976). SP305-8.
- 10.6  $\mu$ m; As<sub>2</sub>S<sub>3</sub>; Coating deposition; Index of refraction; Laser windows; Surface composition; SP435, p. 244-247 (Apr. 1976). SP305-8.
- 10.6  $\mu$ m; Etch-polishing; KCl; Laser damage; Laser windows; RAP; SP414, pp. 66-75. SP305-6.
- 10.6  $\mu$ m; Oxygen deficiency; Surface damage; Surface treatment; LiNbO<sub>3</sub>; SP414, pp. 131-134. SP305-6.
- 10.6  $\mu$ m; 0.694  $\mu$ m; Ag<sub>3</sub>As<sub>2</sub>S<sub>3</sub>; Proustite; Pulse duration dependence; Repetition rate dependence; Surface damage; SP387, pp. 239-249. SP305-5.
- 10.6  $\mu$ m absorption; 10.6  $\mu$ m optical components; Dielectric coatings; Infrared laser windows; Laser heating of metal surfaces; Laser mirrors; Pulsed CO<sub>2</sub> laser damage; Surface damage; SP462, pp. 181-188 (Dec. 1976). SP305-8.
- 10.6  $\mu$ m laser; Damage theory; Laser damage; SP462, pp. 371-378 (Dec. 1976). SP305-8.
- 10.6  $\mu$ m laser; Diamond turning; KCl laser windows; Laser damage; SP462, pp. 149-157 (Dec. 1976). SP305-8.
- 10.6  $\mu$ m lasers; Coatings; Laser damage; Laser windows; SP462, pp. 264-278 (Dec. 1976). SP305-8.
- 10.6  $\mu$ m optical components; Dielectric coatings; Infrared laser windows; Laser heating of metal surfaces; Laser mirrors; Pulsed CO<sub>2</sub> laser damage; Surface damage; 10.6  $\mu$ m absorption; SP462, pp. 181-188 (Dec. 1976). SP305-8.
- 10.6  $\mu$ m polishing; Copper mirror; Damage threshold; Dark field photography; Diamond turned optics; SP435, pp. 29-40 (Apr. 1976). SP305-8.
- 10.7 and 3.8 THz frequency measurement; 28 and 78 micron water vapor laser; Laser frequency measurement; 11621. SP305-2.
- <sup>109</sup>Ag Knight shift; Absorption derivative; Alloys; Asymmetry; Host; Lineshape; 13381. SP305-5.
- <sup>109</sup>Cd; Measured E<sub>g</sub>; Radioactivity; 10427. SP305-1.
- 1,1'-bipyrene; 1,6- and 1,8-pyrenediones; Aromatic; Hydrocarbons; Particulates; Photochemical; Photooxidation; Polycyclic; Pyrene; Reaction; 9703. SP305-1.
- 1,1-difluoroethane; 1,1,1-trifluoroethane; Elimination; Fluoroethane; Kinetics; Single pulse shock tube; Thermal decomposition; 14199. SP305-6.
- (110) plane; Energy distribution; Field emission; Patch fields; Tungsten; Work function; 9424. SP305.
- (110) tungsten; Chemisorption; Desorption; Electron impact; Molecular vibration; Neutralization; Oxygen; Tungsten; 11376. SP305-2.
- 1,1,1-trifluoroethane; Elimination; Fluoroethane; Kinetics; Single pulse shock tube; Thermal decomposition; 1,1-difluoroethane; 14199. SP305-6.
- 1,1,2,2-tetramethylcyclopropane; Cyclohexene; Decomposition; Decyclization; Shock tube; 2,4-dimethylpentene-2; 14196. SP305-6.
- <sup>111</sup>In<sup>m</sup>; 0.335-14.7 MeV; Excitation curve; Neutron elastic scattering; SP425, pp. 859-861. SP305-7.
- 11-6-8 potential; Axilrod-Teller correction; Dense liquid; Excess function; Hydrodynamic limit; Molecular dynamics; Rare gases; Velocity autocorrelation function; 15168. SP305-7.
- 11-6-8 potential function; Correlation function; Experimental data; Hydrodynamic behavior; Methane; Molecular dynamics; Potential function; Self-diffusion coefficient; 15173. SP305-7.
- 119; 78  $\mu$ m; H<sub>2</sub>O laser; Laser magnetic resonance; Laser spectroscopy; O<sub>2</sub>; 13198. SP305-5.
- 1,2,3,4-metallo-organic standard reference materials; Periodic acid; Polycyclic air-pollutants; Polyhydroxy cyclic compounds; Standard reference materials; Sucrose; Sulfonic Ka measurements; Urea; Uric acid; Acetylation; Analysis of corn syrup; TN457. SP305-1.
- 1,2,4,6-di-O-benzylidene- $\alpha$ -D-glucopyranoses; Conformations; Coupling constants; Iterative analysis; *m*-dioxane ring; Proton magnetic resonance; Pyranoid ring; Spectroscopy; 11874. SP305-3.
- 1,2-bis(dichloroboryl)ethylene; Acetylene; Organoboron compounds; Proton magnetic resonance; Protonolysis; Stereochemistry; Tetrachlorodiborane(4); 10293. SP305-1.
- <sup>13</sup>C data; 56 MeV; Facility; Neutron-induced reactions; SP425, pp. 103-105. SP305-7.
- <sup>13</sup>CF<sub>3</sub>; <sup>13</sup>CF<sub>3</sub>; <sup>13</sup>CF<sub>3</sub>; C atom reaction; F atom reaction; F<sub>2</sub> reaction; Force constants; Free radical; Infrared spectrum; Matrix isolation; NF<sub>3</sub>; 10587. SP305-1.
- <sup>13</sup>CF<sub>3</sub>; <sup>13</sup>CF<sub>3</sub>; C atom reaction; F atom reaction; F<sub>2</sub> reaction; Force constants; Free radical; Infrared spectrum; Matrix isolation; NF<sub>3</sub>; Photolysis, thermodynamic properties; Ultraviolet spectrum; 10587. SP305-1.
- <sup>13</sup>C(n,n) and <sup>14</sup>O(n,n); R-function and phase-shift analyses;  $\theta_{lab}$  = 20 to 150°; E = 2 to 5 MeV; SP425, pp. 875-878. SP305-7.
- <sup>13</sup>C, <sup>13</sup>C; Continuum spectra; Efficiencies; Fine structure; Giant resonance; Isospin splitting; Pygmy; Pygmy resonance; Radiative tails; Resonance weak coupling; 12929. SP305-4.
- 1,2-deuterioethylene; Ethylene; Mass spectra; Photoionization; Rydberg; Threshold energies; Autoionization; 9281. SP305.
- 1,2-dihydronaphthalene; Degradation; Polymerization; Pyrolysis; Thermal decomposition; Thermal volatilization; 9218. SP305.
- 1,2-hydride shift; Ion-molecule reactions; Ionic structure; Photoionization; Alkyl halides; Ethyl cations; 13235. SP305-5.
- 12 °K—90 °K; Bayer-Kushida theory; Chlorine; Nuclear quadrupole resonance; Potassium chlorate; Temperature variation; 10238. SP305-1.
- 1,2-O-isopropylidene- $\beta$ -L-idofuranose; 2,3-O-isopropylidene- $\beta$ -D-threo-pentulofuranose; Air pollution studies; Characterization of chemical structures; Disaccharide of D-xylofuranose; Infrared absorption methods for analysis of carbohydrates; TN427. SP305.
- <sup>111</sup>Sb; Alloys; Hyperfine fields; Mössbauer effect; Order-disorder; 12865. SP305-4.
- 1,2,4-trichlorobenzene; Decalin; Limiting viscosity number; Linear polyethylene; Solution viscosity; Viscometer; 1-chloronaphthalene; J.76A No. 2, 147-149 (1972). SP305-4.

- 1,2,4-trichlorobenzene; Differential refractive index;  $dn/dc$ ; Refractive index; Refractometer; 1-chloronaphthalene; *J.76A No. 2, 151-155 (1972). SP305-4.*
- 1,2,4-trichlorobenzene; Fractionation; Limiting viscosity number; Linear polyethylene; Mark-Houwink; Molecular weight; Stockmayer-Fixman; Unperturbed dimensions; Viscosity; 1-chloronaphthalene; *14054. SP305-6.*
- 1-240 eV; Gross fission products; Neutron cross section; Time-of-flight; *SP425, pp. 744-747. SP305-7.*
- <sup>137</sup>I; Adjustment; Evaluation; Fission products; Sensitivity analysis;  $\sigma_i$ ; <sup>101,102,104</sup>Ru; *SP425, pp. 165-168. SP305-7.*
- <sup>109</sup>I; Beta; Coincidence counting; Gamma; Radioactivity; Standardization; *16259. SP305-8.*
- 1,3-bis(phenyldiazene); Cation; Charge-resonance; Diphenylformazan; Heteropolar; Protonation; Structure; *11337. SP305-2.*
- <sup>13</sup>C; Alkane; Chemical shift tensor; Methylene; NMR; *16041. SP305-8.*
- <sup>12</sup>CF<sub>2</sub>; <sup>12</sup>CF<sub>3</sub>; <sup>12</sup>CF<sub>3</sub>; C atom reaction; F atom reaction; F<sub>2</sub> reaction; Force constants; Free radical; Infrared spectrum; Matrix isolation; NF<sub>2</sub>; Photolysis, thermodynamic properties; *10587. SP305-1.*
- <sup>12</sup>CF<sub>3</sub>; C atom reaction; F atom reaction; F<sub>2</sub> reaction; Force constants; Free radical; Infrared spectrum; Matrix isolation; NF<sub>2</sub>; Photolysis, thermodynamic properties; Ultraviolet spectrum; <sup>12</sup>CF<sub>3</sub>; *10587. SP305-1.*
- <sup>13</sup>C-H coupling constants; Fluorinated chemical shift reagents; Fourier transform <sup>13</sup>C magnetic resonance spectroscopy; Glycosyl cyanides; *14147. SP305-6.*
- <sup>13</sup>C magnetic resonance; Collagen; Conformation; Correlation times; Cyanogen bromide peptides; Polypeptides; Relaxation times; Rotational diffusion; *16211. SP305-8.*
- <sup>13</sup>C n.m.r. spectroscopy; <sup>19</sup>F n.m.r. spectroscopy; Internuclear double resonance; Internuclear triple resonance; Nitrogen-15 coupling constants; Nuclear Overhauser effects; P.m.r. spectroscopy; *12444. SP305-4.*
- <sup>13</sup>C relaxation; Chemical shift anisotropy; Dipole-dipole; Scalar relaxation; Spin-rotation; T<sub>1</sub>; T<sub>2</sub>; *12592. SP305-4.*
- 1,3-dioxolane rings; Fructose; Gas-liquid chromatography; Rare sugars; Rearrangement; *11866. SP305-3.*
- 1,3-dithiolane-2-thione; 1,3-dithiolene-2-thione; Carbon-13 NMR; Coordination compounds; Metal carbonyl; Thiocarbonyl; *16585. SP305-8.*
- 1,3-dithiolenes; <sup>31</sup>P NMR; 4,5-dicyano-1,3-dithiolene-2-thione; Aryl phosphines; Cyclic voltammetry; Desulfurization; Phosphines; Tetracyanotetrathiafulvalene; Tetracyanotetrathiafulvalene-triphenylphosphine; *15991. SP305-8.*
- 1,3-dithiolene-2-thione; Carbon-13 NMR; Coordination compounds; Metal carbonyl; Thiocarbonyl; 1,3-dithiolane-2-thione; *16585. SP305-8.*
- 1,3-dithiolene-2-thione; Chromium carbonyl; Infrared spectroscopy; Metal carbonyl; Molybdenum carbonyl; NMR spectroscopy; *15985. SP305-8.*
- <sup>137</sup>Cs; Standards; Cavity ionization chamber; Exposure; Gamma rays; <sup>60</sup>Co; *J.78A No. 4, 465-476 (1974). SP305-6.*
- <sup>14</sup>C; Analog states; Electron scattering; Inelastic electron scattering; Particle-hole model; Resonance energy; *14729. SP305-7.*
- <sup>14</sup>C; Electron scattering; E2 excitations; Transition radii; *13225. SP305-5.*
- 1,4-dioxane; Kinetics; Mechanism; Organic compound; Oxidative degradation; Peroxy radical isomerization; Poly(ethylene oxide); Polymer; Polypropylene; Poly(propylene oxide); Polystyrene; Polytetrahydrofuran; Room temperature; *SP357, pp. 85-92. SP305-4.*
- 14-MeV activation analysis; Annihilation radiation; Correction factors; Neutron and gamma-ray attenuation; Photopeak analysis; Removal cross section; Systematic errors; *11648. SP305-2.*
- 14-MeV activation analysis; Correction factors; Neutron and gamma-ray attenuation; Oxygen; Removal cross section; Systematic errors; *10589. SP305-1.*
- 14 MeV neutron activation; Counting precision; Excess variability; Limiting precision; Photonuclear chemistry; Poisson statistics; Single and multiple parameter nuclear analyses; Statistical weights; *13694. SP305-5.*
- 14-MeV neutron activation analysis; Blank; Cockcroft-Walton neutron generator; "flow through" container; Gamma-attenuation; Geometrical correction; Neutron attenuation; Systematic error analysis; Trace oxygen; *11409. SP305-2.*
- 14 MeV neutron generator; 100 MeV-40 KW LINAC; Clean room; Computers; Counting rooms; Feedback analysis; Optimization of variables 10 MW nuclear reactor; Pneumatic tubes; Radiochemical laboratories; *9154. SP305.*
- 14-MeV neutron generators; Activation analysis; Element determined; Matrix analyzed; Technique used; *TN533. SP305-2.*
- 14 MeV neutrons; Accuracy; Activation analysis; Design; Oxygen; Precision; Sample rotator; *10576. SP305-1.*
- 14 MeV neutrons; <sup>140</sup>Ho; Black nucleus model; Cryogenic target; Coupled-channel calculation; Nuclear alignment; Nuclear deformation; Optical model; Van de Graaff; *9362. SP305.*
- 14 MeV neutron shielding; Application of nuclear cross section; Monte Carlo method; *SP425, pp. 426-430. SP305-7.*
- 14N<sup>+</sup> implantation; p-type GaN; Schottky barrier diode; Single crystal GaN; *14938. SP305-7.*
- <sup>14</sup>N; <sup>14</sup>Be(e,e'); Deduced wave functions; Electron scattering; Measured form factors; Nuclear reactions; *14967. SP305-7.*
- 14.4 keV; Absorber mounting devices; Absorption coefficients; Gamma-rays and x-rays; Half-thickness; Mössbauer spectroscopy; *10401. SP305-1.*
- 14.7-MeV neutrons; Chloride; Iodide; Nondestructive neutron activation analysis; Photographic emulsions; Silver bromide; 2.8-MeV neutrons; *11091. SP305-2.*
- 1,5-hexadiene; 4-methylpentene-1; 4,4-dimethylpentene-1; Allyl radicals; Allylic resonance energy; Single pulse shock tube; T-butyl radicals; Thermal decomposition; 1-butene; *10105. SP305-1.*
- 15 MeV electrons; <sup>60</sup>Co gamma rays; Absorbed dose; CaF<sub>2</sub>; Dy; Dosimeters; LiF; Response; Thermoluminescence; *12833. SP305-4.*
- <sup>15</sup>N-labeled amino sugars; Infrared isotopic shift; Mass spectrometry; Nucleophilic substitution; <sup>15</sup>N-trifluoroacetyl derivative; Derivatives of 6-amino-6-deoxy-D-glucose-<sup>15</sup>N; Differential scanning calorimetry; *12443. SP305-4.*
- <sup>15</sup>N-labeled aminosugars; Mass spectroscopy; N.M.R. spectroscopy; 6-amino-6-deoxy-D-glucose-<sup>15</sup>N; *11275. SP305-2.*
- <sup>15</sup>N-trifluoroacetyl derivative; Derivatives of 6-amino-6-deoxy-D-glucose-<sup>15</sup>N; Differential scanning calorimetry; <sup>15</sup>N-labeled amino sugars; Infrared isotopic shift; Mass spectrometry; Nucleophilic substitution; *12443. SP305-4.*
- 15.11 MeV; Electron scattering; Extrapolation,  $\Gamma$ ; Low  $q^2$ ; <sup>1+</sup> state; *13658. SP305-5.*
- <sup>154</sup>Gd(n, $\gamma$ ); <sup>154</sup>Gd(n, $\gamma$ ); Iron filter; Mn(n, $\gamma$ ); Neutron capture gamma-rays; <sup>6</sup>Li filter; *SP425, pp. 912-915. SP305-7.*
- <sup>154</sup>Gd(n, $\gamma$ ); Iron filter; Mn(n, $\gamma$ ); Neutron capture gamma-rays; <sup>6</sup>Li filter; <sup>154</sup>Gd(n, $\gamma$ ); *SP425, pp. 912-915. SP305-7.*
- 1,6- and 1,8-pyrenediones; Aromatic; Hydrocarbons; Particulates; Photochemical; Photooxidation; Polycyclic; Pyrene; Reaction; 1,1'-bipyrene; *9703. SP305-1.*
- 1,6-diphenyl-1,3,5-hexatriene; Fluorescence; Linear dichroism; Liquid crystals; Polarization; Spectrofluorimetry; *J. Res. 80A No. 1, 15-33 (1976). SP305-8.*
- 160 keV; Fe; Multigroup capture cross section; Na<sup>23</sup>; Self shielding factor; 24 keV; *SP425, pp. 961-963. SP305-7.*
- <sup>161</sup>Dy; Amorphous; Magnetization; Metal; Mössbauer; <sup>16</sup>Fe; *16403. SP305-8.*

- <sup>108</sup>Ho; Black-nucleus model; Coupled channel calculation; Nuclear orientation; Nuclear Ramsauer effect; Nuclear shape; Optical model; Total neutron cross section; 12007. SP305-3.
- <sup>109</sup>Ho; Black nucleus model; Cryogenic target; Coupled-channel calculation; Nuclear alignment; Nuclear deformation; Optical model; Van de Graaff; 14 MeV neutrons; 9362. SP305.
- <sup>110</sup>Ho; Neutron cross section; Nuclear orbiu; T-butyl radicals; Thermal decomposition; 1-butene; 1,5 hexadiene; 10105. SP305-1.
- <sup>111</sup>Ho; Neutron cross section; Nuclear orientation; Deformed nucleus; 9930. SP305-1.
- <sup>112</sup>Er; <sup>179</sup>Hf; <sup>181</sup>Ir; Electron and photon excitation; Excited states; Half-lives; Isomeric levels; <sup>187</sup>Au; 11817. SP305-3.
- <sup>113</sup>Hf; <sup>181</sup>Ir; Electron and photon excitation; Excited states; Half-lives; Isomeric levels; <sup>187</sup>Au; <sup>187</sup>Er; 11817. SP305-3.
- 1.8 to 90 K; Cost; Cryogenic; Efficiency; Mass; Refrigeration; Volume; 11457. SP305-2.
- <sup>114</sup>Ta(n,xγ), E = thermal, calculated σ(Eγ); SP425, pp. 149-155. SP305-7.
- <sup>115</sup>Os(n,γ); E<sub>α</sub> = 25 keV; Measured cross-section ratio; Nuclear reactions; 16579. SP305-8.
- <sup>116</sup>F; <sup>35</sup>Cl; Angular-momentum; Correlation-times; Molecular-reorientation; NMR-relaxation-times; 14422. SP305-6.
- <sup>117</sup>F; <sup>35</sup>Ca; Transition strengths; Electron scattering; Inelastic; 13723. SP305-5.
- <sup>118</sup>F n.m.r. spectroscopy; Internuclear double resonance; Internuclear triple resonance; Nitrogen-15 coupling constants; Nuclear Overhauser effects; P.m.r. spectroscopy; 6-amino-6-deoxy-D-glucose-6-<sup>15</sup>N derivatives; 12444. SP305-4.
- 190-m flight path; Background; JAERI linac; Natural U; Resonance parameters Γ<sub>n</sub> up to 5 keV; Three thicknesses; Transmission measurements; SP425, pp. 738-741. SP305-7.
- <sup>119</sup>Ir; Electron and photon excitation; Excited states; Half-lives; Isomeric levels; <sup>187</sup>Au; <sup>187</sup>Er; <sup>179</sup>Hf; 11817. SP305-3.
- <sup>120</sup>Ir, magnetic moment of; Beta rays, angular distribution of; Gamma rays, angular distribution of; Hyperfine field in iron; Nuclear orientation; Transition mixing ratios; 12005. SP305-3.
- "1921"; Cathedral; Deformation; Lead; Roof; Washington Cathedral; 12377. SP305-3.
- 1966 dielectrics literature; Dielectrics literature; Dielectric theory; Digest of Literature; Molecular and ionic interactions; Review of literature; 10694. SP305-1.
- 1966 ICCG; Crystal; Crystal growth; Crystal morphology; Interface kinetics; International Conference; ICCG; 10698. SP305-1.
- 1967 Amendments to the Flammable Fabrics Act; Flammable fabrics; Flammability standards; National Advisory Commission for the Flammable Fabrics Act; 13362. SP305-5.
- <sup>121</sup>Au; <sup>187</sup>Er; <sup>179</sup>Hf; <sup>181</sup>Ir; Electron and photon excitation; Excited states; Half-lives; Isomeric levels; 11817. SP305-3.
- 2-butanone (methyl ethyl ketone); Enthalpy; Entropy; Equilibrium constant of formation; Gibbs energy of formation; Heat capacity; Ideal gas thermodynamic properties; Internal rotational barrier height; Propanone (acetone); JPCRD 5, No. 2, 319-328 (1976). SP305-8.
- 2-butene; Chemistry; Low temperature; Olefins; Oxygen atom; 11116. SP305-2.
- 2-butene; Concurrent reactions; Consecutive reactions; Controlled oxidation; Conventional additive experiments; Cool-flames; Intermediate products; Isobutane; Isotopic tracer techniques; Isotopically-labelled additives; Macroscopic stages; SP357, pp. 111-117. SP305-4.
- 2-connected; Block-cutpoint tree; Graph; Tree; 16154. SP305-8.
- 2-deoxy sugars, enolization of; Acyclic intermediates in mutarotation of sugars; Aldoses, enolization of; Alkaline rearrangement of sugars; Ene-diols of sugars; Enolization, measurement by tritium exchange; Inososes, enolization of; Ketoses, enolization of; 11338. SP305-2.
- 2-el measurements; As-maintained; International comparisons; Josephson effect; 13239. SP305-5.
- 2-factors; Graph theory; Hamiltonian circuits; Hamiltonian connected; Powers of graphs; Combinatorics; Connectivity; Euler graphs; J.77B Nos. 1 and 2, 1-10 (1973). SP305-5.
- 2-generator groups; Density; Solvable groups; 12001. SP305-3.
- 2-generator groups; Parabolic classes; Fuchsian groups; 12704. SP305-4.
- <sup>121</sup>H; <sup>8</sup>Be; Fission products; Gamma spectra; Photoneutron spectra; Reactors; SP425, pp. 193-198. SP305-7.
- 2-hexuloses; 2-pentuloses; Acid catalysis; Hydrolysis; Isopropylidene acetals; spiro-fused structures; 11159. SP305-2.
- 2-hydroxy-2',4',4'-trichlorodiphenyl ether; Bacteriostats; Blood analysis; Gas chromatography; Trace analysis; Triclosan; SP422, pp. 851-859 (Aug. 1976). SP305-8.
- 2-methylbutane; Bulk modulus; Compressibility; Density; Dilatometric measurements; High pressure; Liquids; Ultrasonics; J.75A No. 2, 121-127 (1971). SP305-3.
- 2-methylbutane; Condensed phase radiolysis; Ionization; Photolysis; 10426. SP305-1.
- 2-methylbutane; Pentane; Ultrasonics; Bulk modulus; Compressibility; Density; Dilatometric measurements; High pressure; Liquids; J.78A No. 5, 617-622 (1974). SP305-6.
- 2-methylbutane; 3-methylpentane; Ion-molecule reaction; Liquid phase photolysis; Liquid phase radiolysis; 9392. SP305.
- 2-methyl propene; Carbon isotopes; Carbonyl fluoride; CO<sub>2</sub> laser photolysis; Difluorocarbene; Difluorodichloromethane; Isotope ratio; Nitric oxide; Oxygen; Tetrafluoroethylene; Transverse excitation laser; 16657. SP305-8.
- 2 MeV electron accelerator; Charge monitor; High frequency; Integrator; Low current monitor; 13148. SP305-5.
- 2<sub>ν</sub>; Coriolis resonance; High resolution; Infrared; NO<sub>2</sub>; Spin splitting; 14769. SP305-7.
- 2 out of 3; 100 Mc/s; Coincidence; Direct-coupled; Gate; Nanosecond; Time-of-flight; 10126. SP305-1.
- 2-pentuloses; Acid catalysis; Hydrolysis; Isopropylidene acetals; spiro-fused structures; 2-hexuloses; 11159. SP305-2.
- 2-ports; Attenuation; Microwave; Mismatch error; Realizability; 10829. SP305-1.
- 2-ports; Waveguide; Waveguide discontinuities; Automatic network analyzers; Coaxial; Coaxial line step discontinuities; Group delay; Scattering coefficients; Standards; TN657. SP305-6.
- 2-port standards; Automatic measurement; Coaxial standards; Network parameters; Reflection coefficient; Scattering coefficients; Transmission coefficient; Waveguide standards; 14739. SP305-7.
- 2p shell; Close-coupling; Core relaxation; Multi-channel; Neon; Photoionization; Standing waves; 9781. SP305-1.
- <sup>20</sup>Ne; <sup>20</sup>Ne; Boiling point; Neon; Neon isotopes; Neon point; Triple point; Vapor pressure; 12597. SP305-4.
- 200 keV; 400 keV; Aluminum; Atomic binding effects; Copper; Gold; Inelastic cross sections; Ionization processes; Large angle electron scattering; Tin; 10904. SP305-2.
- 200 Watts (30 °K); Design; Expansion turbine; Gas bearings; Helium refrigeration; Performance; 9800 RPS; 9151. SP305.
- 20-150 eV; Absorption spectrum; Analysis; Ne I; Resonances; Synchrotron light; 9638. SP305-1.
- 20-180 eV; Autoionization; Far ultraviolet absorption spectra; He through Xe; One and two electron excitation; Resonance profiles; Synchrotron light source; 9915. SP305-1.
- 2-10 MeV; <sup>7</sup>Li(n,α); Angular distribution; SP425, pp. 688-691. SP305-7.
- 2,2-bis(hydroxymethyl)-2,2',2''-nitritotriethanol; Buffer solutions; Dissociation constant; Ionization constant; PH; PK; Thermodynamics; Acidity; Bis-tris; 11602. SP305-2.

- <sup>22</sup>Ne; Boiling point; Neon; Neon isotopes; Neon point; Triple point; Vapor pressure; <sup>20</sup>Ne; 12597. SP305-4.
- <sup>22</sup>Ne; Neon; Vapor pressure; Fixed point; <sup>20</sup>Ne; <sup>20</sup>Ne; 13601. SP305-5.
- 2,2,3-trimethylbutane; Bond energies; Decomposition; Hexamethylethane; Isopropyl radical; Methyl radicals; Neopentane; Pyrolysis; Shock tubes; *t*-butyl radicals; 10106. SP305-1.
- 2,2,3-trimethylbutane; Bond energy; Cyclohexane; Decomposition; Gas phase; Isopropyl bromide; Shock tube; *t*-butyl radical decyclization; 12831. SP305-4.
- 2,2,3-trimethylpentane; Bond energy; Cyclohexyl radical; 3,4-dimethylhexane; Heats of formation; *n*-propyl radical; *s*-butyl radical; Shock tube; *t*-butyl radical; Thermal decomposition; 12562. SP305-4.
- 2,3,4,5-dianhydro-*D*-iditol; Epoxide formation; *D*-mannitol; Methoxide; Sulfonic esters; 11158. SP305-2.
- 2,3-dimethylbutanol-2; 3,3-dimethylbutanol-2; Alcohols; Heats of formation; Hydroxy-alkyl radicals; Shock tube; Thermal decomposition; 15904. SP305-8.
- <sup>22</sup>P term of Li<sup>+</sup>; Electron-excitation cross section; Lifetime; Rf resonance spectroscopy; 13339. SP305-5.
- 2,3-quinoxalinedithiol; Aqueous ethanol; Cobalt; Colored complexes; Copper; Least squares treatment data; Nickel; Simultaneous spectrophotometric; 11682. SP305-2.
- 2,3,0-isopropylidene- $\beta$ -D-threo-pentofuranose; Air pollution studies; Characterization of chemical structures; Disaccharide of D-xylofuranose; Infrared absorption methods for analysis of carbohydrates; Naturally occurring monosaccharides and 6-deoxy sugars; TN427. SP305.
- <sup>227</sup>Th; <sup>230</sup>U; Cross sections; ThO<sub>2</sub> resonance integral; SP425, pp. 415-418. SP305-7.
- <sup>227</sup>Th(n,f); <sup>230</sup>U(n,f); Cross sections; Structures; SP425, pp. 642-645. SP305-7.
- 2,3,3-trimethylpentane; Bond energy; Decomposition; Free radicals; Heat of formation; Hydrocarbon; Isobutylbenzene; Pre-exponential factor; Pyrolysis; Single pulse shock tube; 3,3-dimethylpentane; 3,4-dimethylpentene-1; 11169. SP305-2.
- <sup>233</sup>U; Cross sections; ThO<sub>2</sub> resonance integral; <sup>227</sup>Th; SP425, pp. 415-418. SP305-7.
- <sup>233</sup>U; <sup>235</sup>U; E=0.0253 eV; Eta; Fission neutrons per absorption; Nuclear reactions; SP425, pp. 557-559. SP305-7.
- <sup>233</sup>U, <sup>234</sup>U, <sup>238</sup>U, <sup>239</sup>Pu; Burnup monitors; Capture-to-fission; Dilution mass spectrometry; Fast fission yields; Yields vs. energy; SP425, pp. 378-384. SP305-7.
- 2,3,3,3-tetrafluoropropene; Polymerization; Pressure; Radiation-induced; Tetrafluoroethylene; 12384. SP305-4.
- <sup>235</sup>U; Cross-sections; Fission; Measured; Neutrons; 1 keV — 1 MeV; <sup>239</sup>Pu; SP425, pp. 564-567. SP305-7.
- <sup>235</sup>U; E=0.0253 eV; Eta; Fission neutrons per absorption; Nuclear reactions; <sup>233</sup>U; SP425, pp. 557-559. SP305-7.
- <sup>235</sup>U; E<sub>a</sub>=0.2-1.4 MeV; Fast time-of-flight technique; Number of prompt fission neutrons; SP425, pp. 549-552. SP305-7.
- <sup>235</sup>U; Fission; Measurement; Ratio; SP425, pp. 546-548. SP305-7.
- <sup>235</sup>U; <sup>238</sup>U; MeV neutrons; Time-of-flight; Total neutron cross sections; <sup>239</sup>Pu; 14435. SP305-6.
- <sup>235</sup>U, <sup>238</sup>U, <sup>239</sup>Pu; Fast fission neutron spectra; TOF-technique; SP425, pp. 572-575. SP305-7.
- <sup>235</sup>U, <sup>238</sup>U, <sup>239</sup>Pu; <sup>237</sup>Np; Fission cross section; Fission spectrum; <sup>232</sup>Cf; SP425, pp. 270-272. SP305-7.
- <sup>235</sup>U, <sup>239</sup>Pu; Decay heat; E<sub>B</sub>; E<sub>Y</sub>; ENDF/B-IV; Fission products; Half lives; Yields; SP425, pp. 21-28. SP305-7.
- <sup>235</sup>U, <sup>24</sup>Na; <sup>2</sup>Be( $\gamma$ ,n); Fission cross section; Manganese bath; NBS-II; Track-etch detector; SP425, pp. 635-636. SP305-7.
- <sup>235</sup>U; 600 keV-22 MeV; Cross-sections; Fission; Measured; Neutrons; Ratio; <sup>238</sup>U; SP425, pp. 568-571. SP305-7.
- <sup>235</sup>U(n,f); Calculated < $\sigma_f$ >; Deduced channel spectrum; E = 3-5 MeV; Fission; Nuclear reactions; Pu isotopes; U; SP425, pp. 129-138. SP305-7.
- <sup>235</sup>U(n,f); Fission channels; J; Multilevel fits; Polarized neutrons; Polarized target; SP425, pp. 576-579. SP305-7.
- <sup>235</sup>U(n,f); <sup>237</sup>Np(n,f); Au(n, $\gamma$ ); C(n,n); H(n,n); Neutron flux determination; Standard cross sections; <sup>2</sup>He(n,p); <sup>6</sup>Li(n, $\alpha$ ); <sup>10</sup>B(n, $\alpha$ ); SP425, pp. 293-301. SP305-7.
- <sup>235</sup>U(n,f); <sup>232</sup>Cf; Fission spectrum; Spectrum averaged cross section; SP425, pp. 266-269. SP305-7.
- 2,3,5,6-tetrafluoro-4-trifluoromethylphenol; 1-*t*-butoxy-2,3,5,6-tetrafluoro-4-trifluoromethylbenzene; Perfluoro-*p*-quinonemethide; Polymerization; Poly-*p*-oxyperfluorobenzene; Pyrolysis; J71A1-434, 33-41 (1967). SP305.
- <sup>237</sup>Np; Fission cross section; Fission spectrum; <sup>232</sup>Cf; <sup>235</sup>U, <sup>238</sup>U, <sup>239</sup>Pu; SP425, pp. 270-272. SP305-7.
- <sup>237</sup>Np(n,f); Au(n, $\gamma$ ); C(n,n); H(n,n); Neutron flux determination; Standard cross sections; <sup>2</sup>He(n,p); <sup>6</sup>Li(n, $\alpha$ ); <sup>10</sup>B(n, $\alpha$ ); <sup>235</sup>U(n,f); SP425, pp. 293-301. SP305-7.
- <sup>237</sup>U resonances deduced  $\Gamma_\alpha$ ,  $\Gamma_\gamma$ ; Enriched target; Measured  $\sigma_{\alpha,T}$ ,  $\sigma_n$ ,  $\sigma_\gamma$ ,  $\sigma_{n,\alpha}$ ; Nuclear reactions <sup>238</sup>U(n,n), <sup>238</sup>U(n, $\gamma$ ), E = 30-1800 eV; SP425, pp. 729-732. SP305-7.
- <sup>238</sup>U; Fusion blanket neutronics; Nuclear reactions; SP425, pp. 680-682. SP305-7.
- <sup>238</sup>U; I<sup>+</sup>, I<sup>0</sup>, I<sup>-</sup>; Collective motion; Correlations; Level densities; Resonance levels; SP425, pp. 742-743. SP305-7.
- <sup>238</sup>U; MeV neutrons; Time-of-flight; Total neutron cross sections; <sup>239</sup>Pu; <sup>235</sup>U; 14435. SP305-6.
- <sup>238</sup>U, <sup>235</sup>U; 600 keV-22 MeV; Cross-sections; Fission; Measured; Neutrons; Ratio; SP425, pp. 568-571. SP305-7.
- <sup>238</sup>U; <sup>239</sup>Pu; Fast fission neutron spectra; TOF-technique; <sup>235</sup>U, SP425, pp. 572-575. SP305-7.
- <sup>238</sup>U, <sup>239</sup>Pu; <sup>237</sup>Np; Fission cross section; Fission spectrum; <sup>232</sup>Cf; <sup>235</sup>U; SP425, pp. 270-272. SP305-7.
- <sup>238</sup>U capture cross section; Doorway states; Intermediate structure; SP425, pp. 623-626. SP305-7.
- <sup>238</sup>U( $\gamma$ ,f); Delayed neutron; Energy spectrum,  $\beta$  —  $n$  time-of-flight; Fission; Group 2; SP425, pp. 611-614. SP305-7.
- <sup>238</sup>U(n,f); Cross sections; Structures; <sup>227</sup>Th(n,f); SP425, pp. 642-645. SP305-7.
- <sup>238</sup>U(n,2n), E = 13-18 MeV; Measured  $\sigma(E)$ ; Nuclear reactions <sup>12</sup>C(n,2n), E = 23-34 MeV; Statistical model calculations; SP425, pp. 819-822. SP305-7.
- <sup>238</sup>U(n,3n); E<sub>a</sub> = 8-15 MeV; Measured  $\sigma(E_n)$ ; SP425, pp. 855-858. SP305-7.
- <sup>238</sup>U pulsed sphere measurements; Implications for fusion-fission blanket calculations; Spectra from 10 keV to 15 MeV compared with calculations; SP425, pp. 704-707. SP305-7.
- <sup>239</sup>Pu; Alpha-particle; Emission; Fission; Neutron; Reactor; 13458. SP305-5.
- <sup>239</sup>Pu; Comparison; Cross sections; Fission, absorption; Measurement; SP425, pp. 627-630. SP305-7.
- <sup>239</sup>Pu; Critical assemblies; ENDF/B-IV; Fission spectrum; Inelastic scattering; Sensitivity; SP425, pp. 389-391. SP305-7.
- <sup>239</sup>Pu; Decay heat; E<sub>B</sub>; E<sub>Y</sub>; ENDF/B-IV; Fission products; Half lives; Yields; <sup>235</sup>U; SP425, pp. 21-28. SP305-7.
- <sup>239</sup>Pu; Fast fission neutron spectra; TOF-technique; <sup>235</sup>U, <sup>238</sup>U; SP425, pp. 572-575. SP305-7.
- <sup>239</sup>Pu; <sup>235</sup>U; Cross-sections; Fission; Measured; Neutrons; 1 keV — 1 MeV; SP425, pp. 564-567. SP305-7.
- <sup>239</sup>Pu; <sup>235</sup>U, <sup>238</sup>U; MeV neutrons; Time-of-flight; Total neutron cross sections; 14435. SP305-6.
- <sup>239</sup>Pu; <sup>237</sup>Np; Fission cross section; Fission spectrum; <sup>232</sup>Cf; <sup>235</sup>U, <sup>238</sup>U; SP425, pp. 270-272. SP305-7.
- <sup>239</sup>Pu track; Alpha particle tracks; Fission radiography; Solid dielectric track recorders; SP422, pp. 1132-1142 (Aug. 1976). SP305-8.
- 2,4-dichlorophenol; 2,4-dichlorophenoxyacetic acid; Gas chromatography; Potatoes; Residues, dissipation of; Residues, in



- potatoes; Residues, metabolic; Residues, total; Residues, volatilization; Storage effects; *SP422*, pp. 737-745 (Aug. 1976). **SP305-8.**
- 2,4-dichlorophenoxyacetic acid; Gas chromatography; Potatoes; Residues, dissipation of; Residues, in potatoes; Residues, metabolic; Residues, total; Residues, volatilization; Storage effects; 2,4-dichlorophenol; *SP422*, pp. 737-745 (Aug. 1976). **SP305-8.**
- 2,4-dimethylhexene-1; Bond strength; Combination rate; Decomposition; Isobutylene; Shock tube; *14044*. **SP305-6.**
- 2,4-dimethylpentene-2; 1,1,2,2-tetramethylcyclopropane; Cyclohexene; Decomposition; Decyclization; Shock tube; *14196*. **SP305-6.**
- 24 keV; 160 keV; Fe; Multigroup capture cross section; Na<sup>23</sup>; Self shielding factor; *SP425*, pp. 961-963. **SP305-7.**
- <sup>24</sup>Na; <sup>26</sup>Be(γ,n); Fission cross section; Manganese bath; NBS-II; Track-etch detector; <sup>235</sup>U; *SP425*, pp. 635-636. **SP305-7.**
- <sup>240</sup>Pu(n,f); 500 to 10 000 eV; Γ<sub>α</sub><sup>1</sup>, Γ<sub>α</sub><sup>2</sup>, (Hλ<sup>1</sup>), (Hλ<sup>2</sup>); *SP425*, pp. 560-563. **SP305-7.**
- <sup>241</sup>Am; Neutron; Resonance parameters; Total cross section; *SP425*, pp. 637-641. **SP305-7.**
- <sup>241</sup>Pu fission cross-section; Normalization; Westcott g-factor; *SP425*, pp. 603-606. **SP305-7.**
- 24.3 keV neutron activation cross sections; Relative <sup>10</sup>B standard; *SP425*, pp. 920-922. **SP305-7.**
- <sup>244</sup>Cm; Fast ionization chamber; Fission/alpha; Spherical electrodes; *SP425*, pp. 81-82. **SP305-7.**
- <sup>252</sup>Cf; Age; Fission spectrum; Neutron; Neutron age; *14470*. **SP305-6.**
- <sup>252</sup>Cf; Eta; Fissile nuclei; Manganese bath; Nu-bar; *SP425*, pp. 262-265. **SP305-7.**
- <sup>252</sup>Cf; Fission spectrum; Spectrum averaged cross section; <sup>235</sup>U(n,f); *SP425*, pp. 266-269. **SP305-7.**
- <sup>252</sup>Cf; Manganese sulfate bath; Neutron emission rate; Neutron sources; Neutron spectra; Neutron spectrum measurement methods; *12880*. **SP305-4.**
- <sup>252</sup>Cf; <sup>235</sup>U; <sup>238</sup>U; <sup>239</sup>Pu; <sup>241</sup>Pu; <sup>243</sup>Am; Fission cross section; Fission spectrum; *SP425*, pp. 270-272. **SP305-7.**
- 28 and 78 micron water vapor laser; Laser frequency measurement; 10.7 and 3.8 THz frequency measurement; *11621*. **SP305-2.**
- 2.8-MeV neutrons; 14.7-MeV neutrons; Chloride; Iodide; Non-destructive neutron activation analysis; Photographic emulsions; Silver bromide; *11091*. **SP305-2.**
- 285-nm radiation; 480-nm radiation; Absolute cross sections; Electron impact; Mercury ions; *16588*. **SP305-8.**
- 3-antenna technique; Antenna gain; Antenna polarization; Extrapolation technique; *13627*. **SP305-5.**
- 3d edges; Erbium; Photoabsorption; Theory; Thulium; *13045*. **SP305-4.**
- (3d + 4s)<sup>2</sup>4p; 3 <sup>2</sup>D<sup>4</sup>p + 3 <sup>2</sup>D<sup>4</sup>s4p + 3 <sup>2</sup>D<sup>4</sup>5p; Energy levels; g-factors; Interactions between configurations; Nickel; *J.74A No. 5*, 715-722 (1970). **SP305-2.**
- 3d<sup>4</sup>p configurations; Calculated line strengths; Configuration interaction; Intermediate coupling; Ti II; 3d<sup>3</sup>; 3d<sup>2</sup>4s; *11221*. **SP305-2.**
- 3d<sup>4</sup>s; 3d<sup>4</sup>p configurations; Calculated line strengths; Configuration interaction; Intermediate coupling; Ti II; 3d<sup>3</sup>; *11221*. **SP305-2.**
- 3d<sup>3</sup>; 3d<sup>4</sup>s; 3d<sup>4</sup>p configurations; Calculated line strengths; Configuration interaction; Intermediate coupling; Ti II; *11221*. **SP305-2.**
- 3d<sup>4</sup>p; Configurations 3d<sup>3</sup>; Ti III; Transition strengths; *11398*. **SP305-2.**
- 3d<sup>4</sup>p + 3d<sup>4</sup>s4p + 3d<sup>4</sup>5p; Energy levels; g-factors; Interactions between configurations; Nickel; (3d + 4s)<sup>2</sup>4p; *J.74A No. 5*, 715-722 (1970). **SP305-2.**
- <sup>3</sup>H; Charge; Form factor; Magnetic; Nucleon potentials; Repulsive core; <sup>3</sup>He; *12056*. **SP305-3.**
- <sup>3</sup>H; <sup>3</sup>He; Photodisintegration; Zero-range; Cross section; Differential cross section; <sup>3</sup>H; *9341*. **SP305.**
- <sup>3</sup>He; Electrodisintegration; Electron scattering; Inelastic electron scattering; Monopole excitation; Monopole strength; *15105*. **SP305-7.**
- <sup>3</sup>He; Photodisintegration; Zero-range; Cross section; Differential cross section; <sup>3</sup>H; *9341*. **SP305.**
- <sup>3</sup>He; Pole dominance; Quasifree scattering; Rescattering effects; Separable potentials; Three-body problem; *13126*. **SP305-5.**
- <sup>3</sup>He; <sup>3</sup>H; Charge; Form factor; Magnetic; Nucleon potentials; Repulsive core; *12056*. **SP305-3.**
- <sup>3</sup>He cryostat; <sup>3</sup>He refrigerator; Nuclear orientation; Superconducting solenoid; *TN562*. **SP305-3.**
- <sup>3</sup>He electrodisintegration; <sup>3</sup>He excited states; <sup>3</sup>He photodisintegration; Cross section structure; Excitation energy distribution function; *15220*. **SP305-7.**
- <sup>3</sup>He excited states; <sup>3</sup>He photodisintegration; Cross section structure; Excitation energy distribution function; <sup>3</sup>He electrodisintegration; *15220*. **SP305-7.**
- <sup>3</sup>He(n,p); <sup>6</sup>Li(n,α); <sup>10</sup>B(n,α); <sup>235</sup>U(n,f); <sup>237</sup>Np(n,f); Au(n,γ); C(n,n); H(n,n); Neutron flux determination; Standard cross sections; *SP425*, pp. 293-301. **SP305-7.**
- <sup>3</sup>He(pd) vertex; Plane wave impulse approximations; Quasi-free scattering; Separable potentials; Three-body problem; Confidence cross sections; *13012*. **SP305-4.**
- <sup>3</sup>He photodisintegration; Cross section structure; Excitation energy distribution function; <sup>3</sup>He electrodisintegration; <sup>3</sup>He excited states; *15220*. **SP305-7.**
- <sup>3</sup>He refrigerator; Nuclear orientation; Superconducting solenoid; <sup>3</sup>He cryostat; *TN562*. **SP305-3.**
- <sup>3</sup>He <sup>3</sup>He solutions; Lifetime of excitations; Neutron scattering; Perturbation of elementary excitations; Quantum liquids; Roton minimum; *15263*. **SP305-7.**
- 3j coefficient; 6j coefficient; 9j coefficient; Clebsch-Gordan coefficients; Fortran program; Wigner coefficients; Quantum theory of angular momentum; *TN409*. **SP305.**
- 3-manifold; 3-sphere; Free group; Handlebody; Homeomorphism; Simply connected; Topology; *J.71B2&3-197*, 53-56 (1967). **SP305.**
- 3-meter; Monochromator alignment; 0.06 Å resolution; Spectrograph; Synchrotron light; Grazing-incidence; *9355*. **SP305.**
- 3-methylpentane; Binary liquid mixtures; Capillary rise; Coexistence curve; Critical phenomena; Nitroethane; Surface tension; *11666*. **SP305-2.**
- 3-methylpentane; Coexistence curve; Critical phenomena; Density; Magnetism; Magnetic suspension; Nitroethane; *11201*. **SP305-2.**
- 3-methylpentane; Consolute point; Critical exponent α; Critical phenomena; Critical solution point; Density; Gravity effects; Mixture, binary; Mixture, liquid; Nitroethane; Thermal expansion; *15691*. **SP305-7.**
- 3-methylpentane; Ion-molecule reaction; Liquid phase photolysis; Liquid phase radiolysis; 2-methylbutane; *9392*. **SP305.**
- 3-methylpentane; Mixture; Liquid; Nitroethane; Sedimentation; Critical point; Critical solution point; Densimeter, magnetic; Diffusion, pressure; Gradient, concentration; Gradient, density; Gravity, effects of; *14944*. **SP305-7.**
- 3-methyl sulfonate; Pyrolysis; SO<sub>2</sub>; Trimethylene sulfone; *15952*. **SP305-8.**
- 3-O-α-D-glucopyranosyl-D-arabinopyranose; Anomeric sugars; Calcium maltobionate; Maltose-1-<sup>14</sup>C; *J.72A No. 6*, 769-771 (1968). **SP305-1.**
- 3-sphere; Free group; Handlebody; Homeomorphism; Simply connected; Topology; 3-manifold; *J.71B2&3-197*, 53-56 (1967). **SP305.**
- 30 and 57.4 MeV electrons; Angular distribution; Depth-dose; Photon energy; Ta target; Thermoluminescent detectors; *14040*. **SP305-6.**

- <sup>31</sup>P; Electroexcitation; Electron scattering; Form factors; Intermediate coupling; Reduced transition probability; 15104. SP305-7.
- <sup>31</sup>P NMR; 4,5-dicyano-1,3-dithiolen-2-thione; Aryl phosphines; Cyclic voltammetry; Desulfurization; Phosphines; Tetracyanotetrafluorovalene; Tetracyanotetrafluorovalene-triphenylphosphine;  $\Delta^{2,2}$ -bis-14,5-dicyano-1,3-dithiodene; 15991. SP305-8.
- 310 stainless steel; Stress concentrations; Tensile deformation; Workhardening; Fracture; Initial cracking; Multiaxial stresses; Notch geometry; 9735. SP305-1.
- 3-13 GeV electron beam; Photon energy; Production cross sections; Spallation products; 12856. SP305-4.
- 3,3-dimethylbutanol-2; Alcohols; Heats of formation; Hydroxy-alkyl radicals; Shock tube; Thermal decomposition; 2,3-dimethylbutanol-2; 15904. SP305-8.
- 3,3-dimethylpentane; 3,4-dimethylpentene-1; 2,3,3-trimethylpentane; Bond energy; Decomposition; Free radicals; Heat of formation; Hydrocarbon; Isobutylbenzene; Pre-exponential factor; Pyrolysis; Single pulse shock tube; 11169. SP305-2.
- 3,3,4,4,5,5,5-heptafluoropentene-1; Amorphous polymer; Copolymerization; Fluoropolymers; Glass temperatures; High pressure; Radiation induced; Tetrafluoroethylene; 11868. SP305-3.
- 3,3,4,4,5,5,5-heptafluoropentene-1; Irradiation; Polymerization; Pressure; 12089. SP305-3.
- 337-micron CN laser; Laser; Radiation; Rotational level; Vibrational state; 9163. SP305.
- 339  $\mu$ m laser; CO<sub>2</sub> laser; Helium neon laser; Laser frequency measurement; MOM diode; 12529. SP305-4.
- 3,4-dimethylhexane; Heats of formation; *n*-propyl radical; *s*-butyl radical; Shock tube; *t*-butyl radical; Thermal decomposition; 2,2,3,3-trimethylpentane; Bond energy; Cyclohexyl radical; 12562. SP305-4.
- 3,4-dimethylpentene-1; 2,3,3-trimethylpentane; Bond energy; Decomposition; Free radicals; Heat of formation; Hydrocarbon; Isobutylbenzene; Pre-exponential factor; Pyrolysis; Single pulse shock tube; 3,3-dimethylpentane; 11169. SP305-2.
- <sup>35</sup>chlorine; Nuclear quadrupole resonance; Sodium chlorate; Temperature dependence 14-90 K; 12258. SP305-3.
- <sup>35</sup>Cl; Angular-momentum; Correlation times; Molecular-reorientation; NMR-relaxation-times; <sup>19</sup>F; 14422. SP305-6.
- 35  $\times$  70; Coupling coefficients; Permutation symmetry; Quark interchange; Relative phases, SU(6) multiplets; 12639. SP305-4.
- 3.5 percent NaCl; 7XXX aluminum alloys; Aluminum Association; ASTM; Industrial atmosphere; Round robin tests; Seacoast atmosphere; Standard; Stress-corrosion; 16656. SP305-8.
- 3,5,6-trichloro-octafluorohexane; Dechlorination; Gamma ray initiation; Pentadiene; Polymerized; Pressure; 9706. SP305-1.
- 3,6-Dioxabicyclo[3.1.0]hexane; Boat conformation; Dipole moment; Microwave spectrum; Ring conformation; Rotational constants; 13618. SP305-5.
- 360° scattering by particles; Aerosol light scattering; Aerosol size measurements; Aerosol spectrometer; Aerosol sprays; Laser light scattering by aerosols; Refractive index; Scattering diagrams; SP412, pp. 41-56. SP305-6.
- <sup>37</sup>Ar; Atmospheric mixing; Atmospheric radioactivity; Cosmic ray reactions; Isotopic enrichment; 16388. SP305-8.
- <sup>4</sup>A<sub>2g</sub> - <sup>4</sup>T<sub>2g</sub> transition; Zeeman effect; Cr<sup>3+</sup> in TiO<sub>2</sub>; Identification of excited state; 13548. SP305-5.
- 4d absorption; Atomic structure; Inner shell; *N<sub>IV</sub>*; Resonance cross section profiles; Spectroscopy; Vacuum ultraviolet; Xenon; 15054. SP305-7.
- 4d absorption; 4f orbital contraction; Barium vapor; Configuration interaction; *N<sub>IV</sub>* ionization thresholds; Photoabsorption; 14907. SP305-7.
- 4d photoabsorption; Atomic structure; Barium; *N<sub>IV</sub>* edges; Spectroscopy; Vacuum ultraviolet; 15845. SP305-8.
- 4f electron excitations; Photoelectron spectroscopy; Rare earth metals; 15841. SP305-8.
- 4 f<sup>0</sup> configurations; Complex ions; Coordination polyhedra; Nonstoichiometry; Polymolecular frameworks; Rare earth optical spectra; Rare earth oxide; Refractory materials; Thin films; SP364, pp. 367-383. SP305-4.
- 4f orbital contraction; Barium vapor; Configuration interaction; *N<sub>IV</sub>* ionization thresholds; Photoabsorption; 4d absorption; 14907. SP305-7.
- <sup>4</sup>He; Condensate fraction; Ground state wave function; Neutron diffraction; Pair correlation function; Triplet correlation function; 13943. SP305-6.
- <sup>4</sup>He photodisintegration; E-2 angular distributions; Electric-quadrupole transition; Identical particles; Virtual photons; 12878. SP305-4.
- 4ij and selenium 726; Arsenic; Atomic absorption; Electrodeless; Extraction-displacement reaction; Standard reference materials; 11399. SP305-2.
- 4-methylpentene-1; 4,4-dimethylpentene-1; Allyl radicals; Allylic resonance energy; Single pulse shock tube; T-butyl radicals; Thermal decomposition; 1-butene; 1,5 hexadiene; 10105. SP305-1.
- 4-methylpentene-1; Allene; Bond energy; Comparative rate; Gas phase; Heats of formation; Kinetics; Molecular reaction; Propynyl; Pyrolysis; Single pulse shock tube; 12832. SP305-4.
- 4-oxo-1-phenyl-5-phenylazo-3-pyrrck nucleus; Coupled-channel calculations; Nuclear deformation effect; Nuclear orientation; Nuclear Ramsauer effect; 10398. SP305-1.
- 4-oxo-1-phenyl-5-phenylazo-3-pyridazine-carboxaldehyde; Derivatives; Absorption spectra of pyridazine derivatives; Cyclic polyhydroxy ketones; Inositol, triketone; Nuclear magnetic resonance of pyridazine derivatives; Phenylhydrazono-phenylazo tautomerism; 9803. SP305-1.
- 4 $\pi$   $\beta$ - $\gamma$  coincidence counting;  $\gamma$ -ray intercomparator automatic sample changers; Radioactivity measurements; 14301. SP305-6.
- 4 $\pi$  pressure ionization chamber; Half-life measurement; Isomeric decay; Isotope <sup>113m</sup>In<sup>m</sup>; Radioactivity; Rate of charge measurement; 15078. SP305-7.
- 4 $\pi$ rb detector; Absolute values; Fluctuations; Monte Carlo calculations for corrections; Total energy weighting technique; SP425, pp. 957-960. SP305-7.
- <sup>4</sup>T<sub>2</sub> state; Absorption; Defect phonon; Emission; Excitation; Lifetime; 12319. SP305-3.
- <sup>46</sup>Ca; Transition strengths; Electron scattering; Inelastic; <sup>19</sup>F; 13723. SP305-5.
- 400 keV; Aluminum; Atomic binding effects; Copper; Gold; Inelastic cross sections; Ionization processes; Large angle electron scattering; Tin; 200 keV; 10904. SP305-2.
- 405 representation; Higher symmetry scheme;  $\lambda$  quark content; Nonet of 2<sup>+</sup> mesons; Schwinger mass formula; SU(6)<sub>w</sub>; 9332. SP305.
- 4-3m symmetry; Angular dependence; Hexadecapole; Hexadecapole transitions; Phonon interactions; Saturation factor; 9357. SP305.
- 4340 steel; Bending; Capacitance strain gage; Tensile; Ti-6Al-4V; Uniaxial loading; 13648. SP305-5.
- 4340 steel; Capacitance gages; Invar; Loading rate; Microplasticity; Strain measurement; Temperature changes in tensile specimens; 11738. SP305-2.
- 4,4-dimethylpentene-1; Allyl radicals; Allylic resonance energy; Single pulse shock tube; T-butyl radicals; Thermal decomposition; 1-butene; 1,5 hexadiene; 4-methylpentene-1; 10105. SP305-1.
- 4,4',4''-triarnitrophenylacetoneitrile; Triphenyl-methane dyes; Dosimetry; Dyes; Yield; Gamma rays; Pararosaniline cyanide; 14292. SP305-6.

- 4,5-dicyano-1,3-dithiolen-2-thione; Aryl phosphines; Cyclic voltammetry; Desulfurization; Phosphines; Tetracyanotetrahydrofulvalene; Tetracyanotetrahydrofulvalene triphenylphosphine;  $\Delta^{2,2}$ -bis-14,5-dicyano-1,3-dithiodene; 1,3-dithiolenes; 15991. SP305-8.
- 480-nm radiation; Absolute cross sections; Electron impact; Mercury ions; 285-nm radiation; 16588. SP305-8.
- 5f electron; Actinides; Coulomb term; Energy; Excitation energy; Metal; 15129. SP305-7.
- 5f electron; Actinium; Excitation energy; *U*; 16581. SP305-8.
- $\Sigma_{\nu}$ ; Electronic structure; Energy curve;  $N_2$ ; Predissociation; Radiative recombination; 16442. SP305-8.
- 500 to 10 000 eV;  $\Gamma_{\lambda'}$ ,  $\Gamma_{\lambda''}$ ,  $(H\lambda')^*$ ;  $^{240}\text{Pu}(n,f)$ ; SP425, pp. 560-563. SP305-7.
- $^{54}\text{Cr}$ ,  $^{58}\text{Ni}$ ,  $^{60}\text{Ni}$  (n,n' $\gamma$ ) experimental results of  $\gamma$ -ray production cross sections;  $E_n=0.5$ -10 MeV; SP425, pp. 916-919. SP305-7.
- $^{56}\text{Fe}$ ;  $^{56}\text{Fe}$ ; High resolution; Total neutron cross section; SP425, pp. 748-753. SP305-7.
- $^{56}\text{Fe}$ ; High resolution; Total neutron cross section;  $^{56}\text{Fe}$ ; SP425, pp. 748-753. SP305-7.
- 56 MeV; Facility; Neutron-induced reactions;  $^{12}\text{C}$  data; SP425, pp. 103-105. SP305-7.
- $^{57}\text{Fe}$ ; Electronic structure; Knight shift; Nuclear magnetic resonance; Nuclear moment; TiFe; 11561. SP305-2.
- $^{59}\text{Fe}$ ;  $^{141}\text{Dy}$ ; Amorphous; Magnetization; Metal; Mössbauer; 16403. SP305-8.
- 5-amino-6-deoxy-D-glucose- $^{15}\text{N}$ ;  $^{15}\text{N}$ -labeled aminosugars; Mass spectroscopy; N.M.R. spectroscopy; 11275. SP305-2.
- 5-amino-6-deoxy-D-glucose-6- $^{15}\text{N}$ ; Bilirubin analysis; Calcium carbonate SRM; Conformations by NMR; Corn syrup analysis; Creatinine SRM; D-glucose (clinical SRM); Organic trace analysis; SRM's for clinical analysis; TN507. SP305-1.
- 6-amino-6-deoxy-D-glucose-6- $^{15}\text{N}$  derivatives;  $^{12}\text{C}$  n.m.r. spectroscopy;  $^{19}\text{F}$  n.m.r. spectroscopy; Internuclear double resonance; Internuclear triple resonance; Nitrogen-15 coupling constants; Nuclear Overhauser effects; 12444. SP305-4.
- 6-deoxy- $\alpha$ -D-glucopyranose derivative; General Overhauser effect; Internuclear double resonance; Long-range coupling; Magnetic equivalence factoring; Spin-tickling; Transient nutations; 12693. SP305-4.
- $^7\text{Li}$ ; Neutron cross section; Standard;  $^{10}\text{B}$ ; SP425, pp. 232-235. SP305-7.
- $^7\text{Li}$ ;  $^{10}\text{B}$ ; Cross sections; Light elements; R-matrix; Standards; SP425, pp. 302-308. SP305-7.
- $^6\text{Li}(d,\alpha)$ ; Deduced  $\sigma$   $\alpha\delta$  ( $\sigma\gamma$ ); Measured  $\sigma(\theta)$ ; Nuclear reactions;  $^6\text{Li}(p,p)$ ;  $^6\text{Li}(p,^3\text{He})$ ;  $^6\text{Li}(^3\text{He},p)$ ;  $^6\text{Li}(d,p)$ ; SP425, pp. 697-700. SP305-7.
- $^6\text{Li}(d,p)$ ;  $^6\text{Li}(d,\alpha)$ ; Deduced  $\sigma$   $\alpha\delta$  ( $\sigma\gamma$ ); Measured  $\sigma(\theta)$ ; Nuclear reactions;  $^6\text{Li}(p,p)$ ;  $^6\text{Li}(p,^3\text{He})$ ;  $^6\text{Li}(^3\text{He},p)$ ; SP425, pp. 697-700. SP305-7.
- $^6\text{Li}$  filter;  $^{13}\text{Gd}(n,\gamma)$ ;  $^{154}\text{Gd}(n,\gamma)$ ; Iron filter; Mn( $n,\gamma$ ); Neutron capture gamma-rays; SP425, pp. 912-915. SP305-7.
- $^{11}\text{Li}(n,\alpha)$ ; Absolute cross section measurements; Manganese bath; Neutron cross sections; Photoneutron sources; Surface barrier detectors; SP425, pp. 236-239. SP305-7.
- $^{11}\text{Li}(n,\alpha)$ ;  $^{235}\text{U}(n,f)$ ;  $^{237}\text{Np}(n,f)$ ; Au( $n,\gamma$ ); C( $n,n$ ); H( $n,n$ ); Neutron flux determination; Standard cross sections;  $^7\text{He}(n,p)$ ; SP425, pp. 293-301. SP305-7.
- $^{11}\text{Li}(n,\alpha)$ ; Angular distribution; 2-10 MeV; SP425, pp. 688-691. SP305-7.
- $^{11}\text{Li}(n,n)$ ;  $^9\text{Be}(n,n)$ ;  $^{12}\text{C}(n,n)$  and  $^{16}\text{O}(n,n)$ ; R-function and phase-shift analyses;  $\theta_{\text{lab}}=20$  to  $150^\circ$ ;  $E=2$  to  $5$  MeV; SP425, pp. 875-878. SP305-7.
- $^6\text{Li}(p,p)$ ;  $^6\text{Li}(p,^3\text{He})$ ;  $^6\text{Li}(^3\text{He},p)$ ;  $^6\text{Li}(d,p)$ ;  $^6\text{Li}(d,\alpha)$ ; Deduced  $\sigma$   $\alpha\delta$  ( $\sigma\gamma$ ); Measured  $\sigma(\theta)$ ; Nuclear reactions; SP425, pp. 697-700. SP305-7.
- $^6\text{Li}(p,^3\text{He})$ ;  $^6\text{Li}(d,p)$ ;  $^6\text{Li}(d,\alpha)$ ; Deduced  $\sigma$   $\alpha\delta$  ( $\sigma\gamma$ ); Measured  $\sigma(\theta)$ ; Nuclear reactions;  $^6\text{Li}(p,p)$ ; SP425, pp. 697-700. SP305-7.
- $^{60}\text{Co}$ ; Gamma rays; Josephson junction; Noise thermometer; Thermometer; 15166. SP305-7.
- $^{60}\text{Co}$ ;  $^{137}\text{Cs}$ ; Standards; Cavity ionization chamber; Exposure; Gamma rays; J.78A No. 4, 465-476 (1974). SP305-6.
- $^{60}\text{Co}$  gamma; Activation energy; Compensation; Epitaxial gallium arsenide; High energy neutron; Impurity conduction; Reciprocal Hall coefficient; Transition regime; 15575. SP305-7.
- $^{60}\text{Co}$  gamma radiation; Extended media; Interface; Theory; Absorbed dose;  $\text{CaF}_2/\text{Mn}$ ; 13443. SP305-5.
- $^{60}\text{Co}$  gamma radiation; F-center formation; LiF(TLD grade); Rate dependence; Thermoluminescence; 10918. SP305-2.
- $^{60}\text{Co}$  gamma-ray source; Absorbed dose; Dye-polychlorostyrene film dosimeter; High-intensity pulsed electron source; Thin aluminum calorimeters; 13201. SP305-5.
- 60-Hz power line; Atomic clock; Frequency calibration; Frequency stability; Optical pulsars; Remote clock comparisons; Simultaneous reception; Time dissemination; Time stability; Time synchronization; Time transfer; TV color subcarrier; 12986. SP305-4.
- 600 keV-22 MeV; Cross-sections; Fission; Measured; Neutrons; Ratio;  $^{238}\text{U}$ ;  $^{235}\text{U}$ ; SP425, pp. 568-571. SP305-7.
- 65-335 K; Cerous magnesium nitrate hydrate; Lattice; Proton; Relaxation; Spin; 14860. SP305-7.
- 7XXX aluminum alloys; Aluminum Association; ASTM; Industrial atmosphere; Round robin tests; Seacoast atmosphere; Standard; Stress-corrosion; 3.5 percent NaCl; 16656. SP305-7.
- 77 K refrigerator; Cryogenics; Infrared detector; Low capacity; Reliability; Shipboard; 14305. SP305-6.
- 77 K refrigerator; Cryogenics; Infrared detector; Low capacity; Reliability; Shipboard; NBSIR 74-372. SP305-7.
- $^{88}\text{Sr}$ ;  $^{88}\text{Y}$ ; Elastic and inelastic electron scattering; Low lying levels; Weak coupling; 14968. SP305-7.
- $^{89}\text{Y}$ ; Elastic and inelastic electron scattering; Low lying levels; Weak coupling;  $^{89}\text{Sr}$ ; 14968. SP305-7.
- $^9\text{Be}$ ; Fission products; Gamma spectra; Photoneutron spectra; Reactors;  $^9\text{Be}$ ; SP425, pp. 193-198. SP305-7.
- $^9\text{Be}(e,e')$ ; Deduced wave functions; Electron scattering; Measured form factors; Nuclear reactions;  $^{14}\text{N}$ ; 14967. SP305-7.
- $^9\text{Be}(n,n)$ ;  $^{12}\text{C}(n,n)$  and  $^{16}\text{O}(n,n)$ ; R-function and phase-shift analyses;  $\theta_{\text{lab}}=20$  to  $150^\circ$ ;  $E=2$  to  $5$  MeV; SP425, pp. 875-878. SP305-7.
- $^{238}\text{Np}$ , Ag,  $^{127}\text{I}$ ,  $^{185}\text{Ho}$ ,  $^{197}\text{Au}$  and  $^{238}\text{U}$ ;  $\text{CaF}_2$  detector; Fe-filtered beam; Neutron capture cross section; Pulse-height weighting; Time-of-flight method; SP425, pp. 802-805. SP305-7.
- $^{90}\text{Nb}(n,\gamma)$ ,  $E=14.2$  MeV, calculated  $\sigma(E\gamma)$ ;  $^{101}\text{Ta}(n,\gamma)$ ,  $E=\text{thermal}$ , calculated  $\sigma(E\gamma)$ ; SP425, pp. 149-155. SP305-7.

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100



U.S. DEPT. OF COMM. BIBLIOGRAPHIC DATA SHEET		1. PUBLICATION OR REPORT NO. NBS SP 535 Vol. 1 & Vol. 2	2. Gov't. Accession No.	3. Recipient's Accession No.
4. TITLE AND SUBTITLE Catalog of National Bureau of Standards Publications, 1966 - 1976. Vol. 1 (Pt. 1 and 2) Citations and Abstracts Vol. 2 Key Word Index (A Through L; M Through Z)			5. Publication Date 1978	
			6. Performing Organization Code	
7. AUTHOR(S) Betty L. Burris and Rebecca J. Morehouse, Editors			8. Performing Organ. Report No.	
9. PERFORMING ORGANIZATION NAME AND ADDRESS  NATIONAL BUREAU OF STANDARDS DEPARTMENT OF COMMERCE WASHINGTON, DC 20234			10. Project/Task/Work Unit No.	
			11. Contract/Grant No.	
12. SPONSORING ORGANIZATION NAME AND COMPLETE ADDRESS (Street, City, State, ZIP) Same as Item 9			13. Type of Report & Period Covered Jan. 1966 - Dec. 1976	
			14. Sponsoring Agency Code	
15. SUPPLEMENTARY NOTES Vol. 1 and 2 (1966 - 1976) have been updated by SP 305, Supplement 9. Library of Congress Catalog Card No. 78-600145. <input type="checkbox"/> Document describes a computer program; SF-185, FIPS Software Summary, is attached.				
16. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.)  The published output of NBS for 1966 through 1976 is cataloged and indexed in this two-volume publication. Parts 1 and 2 of Volume 1 consist of reprints of abstracts and full citations of all published papers during the 11-year period as they originally appeared in the NBS annual publication catalogs - NBS SP 305 and its Supplements 1 through 8. Volume 2 is a consolidated permuted key word index which directs the researcher of NBS literature either to the citations and abstracts of Volume 1 or to the same information in the nine annual catalogs issued during the 11-year period. Annual supplements to SP 305 will continue to update the NBS published output; the 1977 supplement is now available as NBS SP 305, Supplement 9.  Complete catalogs available in two volumes, 2 parts each as follows:  SP 535, Volume 1 (2 parts), order as Stock No. SN003-003-02010-9, price \$23.75  SP 535, Volume 2 (2 parts), order as Stock No. SN003-003-02011-7, price \$21.25				
17. KEY WORDS (six to twelve entries; alphabetical order; capitalize only the first letter of the first key word unless a proper name; separated by semicolons) Catalog of NBS publications; citations and abstracts of NBS publications; NBS publications program; eleven-year key word index (1966 - 1976); index to NBS publications.				
18. AVAILABILITY <input checked="" type="checkbox"/> Unlimited  <input type="checkbox"/> For Official Distribution. Do Not Release to NTIS  <input checked="" type="checkbox"/> Order From Sup. of Doc., U.S. Government Printing Office, Washington, DC 20402, SD Stock No. SN003-003- See Item 16.  <input type="checkbox"/> Order From National Technical Information Service (NTIS), Springfield, VA. 22161		19. SECURITY CLASS (THIS REPORT)  UNCLASSIFIED		21. NO. OF PRINTED PAGES Vol. 1, 1908 Vol. 2, 1569
		20. SECURITY CLASS (THIS PAGE)  UNCLASSIFIED		22. Price See Item 16













